

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

**ALABAMA POWER COMPANY
PLANT MILLER
ASH POND**

July 31, 2023

Prepared for

Alabama Power Company
Birmingham, Alabama

By

Southern Company Services
Earth Science and Environmental Engineering



CERTIFICATION STATEMENT

This *2023 Semi-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 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.

 _____ 7/31/2023 _____

Gregory B. Dyer, PG

Date

AL Registered Professional Geologist No. 1471

 _____ 7/31/2023 _____



Gregory Whetstone, PE

Date

AL Registered Professional Engineer No. 27885

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 Semi-Annual Groundwater Monitoring and Corrective Action Report has been prepared to document the first 2023 semi-annual groundwater monitoring activities at the Alabama Power Company (APC) Plant Miller Ash Pond (Site) and to satisfy the requirements of § 257.90(e), ADEM Admin. Code r. 335-13-15-.06(1)(e), and Part E of AO 18-094-GW. Semi-annual monitoring and associated reporting for Plant Miller Ash Pond is performed in accordance with the monitoring requirements § 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 § 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 § 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 SSLs above GWPS. A Groundwater Remedy Selection Report was prepared to meet the requirements of § 257.97, ADEM Admin. Code r. 335-13-15-.06(8), and Part C of AO No.18-098-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 § 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 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.

SSLs of Appendix IV parameters arsenic, cobalt, lithium, and molybdenum were detected above GWPS during the first semi-annual monitoring event of 2023. The following summarizes activities for the 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 and May 3, 2023.
- Research for the in situ groundwater treatment and hydraulic containment of Site COIs as part of phase 1 implementation of the Permeation Grouting Pilot Program. This included:
 - Collected core samples from historical compliance well borings as part of a geogenic study; they are being evaluated for further analytical testing.
 - Conducted optimization batch tests and post-batch test selective sequential extraction for injection treatability studies.
 - Selected locations for potential pilot tests based on stratigraphy, COIs 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:

- Continue geogenic study to evaluate source of COI in groundwater at the Site .
- Continue with phase 1 implementation of the Permeation Grouting Pilot Program for the remediation of arsenic, lithium, and molybdenum.
- Installation of near real-time instrumentation for the monitoring of potential changes in field parameter data in response to ash pond closure activities.

- Continue research efforts to evaluate the applicability of two potential groundwater remedial alternatives: in situ treatment and hydraulic containment. Subsequently evaluate technical and implementation feasibility of geochemical manipulation and enhanced MNA technologies.
- Evaluation of recently collected MNA parameter data.
- Evaluation of molybdenum, south of the Ash Pond, in context of planned Remedial Action strategies.
- Conduct the second semi-annual monitoring event and submit the annual groundwater monitoring report summarizing the findings to ADEM by January 31, 2024.

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

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

Assessment Monitoring Initiated: January 15, 2018
 Monitoring Period: January 1 - July 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-5, 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, MR-AP-MW-12.
pH	MR-AP-MW-4, MR-AP-MW-5, MR-AP-MW-10, 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, 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, MR-AP-MW-12.

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-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

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ABBREVIATIONS

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

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SSL	statistically significant level
TAL	Test America, Inc.
TOC	top of casing
TDS	total dissolved solids
USGS	Unites States Geological Survey
UTLs	Upper Tolerance Limits
XRD	X-ray diffraction
XRF	X-ray fluorescence

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 Semi-Annual Groundwater Monitoring and Corrective Action Report has been prepared to document the first 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 §§ 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 § 257.94(e) and ADEM Admin. Code r. 335-13-15-.06(5)(e), APC implemented assessment monitoring in January 2018. SSIs of Appendix III and SSLs of Appendix IV parameters were identified at the Plant Miller Ash Pond during sampling events conducted in 2018. Pursuant to § 257.95(g)(3)(i) and ADEM Admin. Code r. 335-13-15-.06(6)(g)4.(i), APC completed an ACM in accordance with § 257.96, ADEM Admin. Code r. 335-13-15-.06(7), and ADEM Administrative Order (AO) 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 § 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 system and any well installed to characterize the horizontal and vertical extent of SSLs. 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 ft MSL).

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 3 to 8 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 § 257.91 and ADEM Admin. Code r. 335-13-15-.06(2), Plant Miller has installed a groundwater monitoring system to monitor groundwater within the uppermost aquifer. The certified groundwater monitoring system for the Ash Pond is designed to monitor groundwater passing the waste boundary of the CCR unit within the uppermost aquifer. Wells were located to serve as upgradient 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 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 will be conducted prior to making a recommendation for inclusion into the groundwater monitoring network and updating the Groundwater Monitoring Plan. Upon review of existing data, it is not anticipated that these wells will be added to or recommended for 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 § 257.95(g)(1), ADEM Admin. Code r. 335-13-15-.06(6)(g), and Alabama Administrative Order AO 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 have been converted to piezometers. Previously installed delineation wells that did not yield sufficient groundwater for development 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 Monitoring Well and Piezometer 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 § 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 SSLs of Appendix IV constituents above the GWPS, and the Site entered Assessment of Corrective Measures. Pursuant to 40 CFR §257.95(g)(1), ADEM Admin. Code r. 335-13-15-.06(6)(g)2., and AO 18-098-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. Additional general chemistry constituents (major ions and anions) are now being collected routinely as well. These non-compliance parameters will be periodically analyzed to explore seasonal or closure-related changes to geochemical facies to Site groundwater.

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 §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. 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 § 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. Groundwater samples were analyzed for the full list of Appendix III and Appendix IV parameters during monitoring period sampling events. During the most recent sampling event, additional general chemistry and monitored natural attenuation monitoring parameters were 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 § 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 ft MSL. Readings and elevations in piezometers MR-AP-MW-2V and MR-AP-MW-19H are representative of effectively dry wells and 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 2022 first 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 Zone, Figure 6C, Potentiometric Surface Contour Map (April 18, 2023) – Gillespy Lower Sandstone, Figure 6D, Potentiometric Surface Contour Map (April 18, 2023) – Gillespy-Pratt Transition Zone, Figure 6E, Potentiometric Surface Contour Map (April 18, 2023) – Pratt Coal Group, Figure 6F, Potentiometric Surface Contour Map (April 18, 2023) – Deep Upgradient Monitoring Wells (Middle to Lower Mary Lee Group), and Figure 6G, Potentiometric Surface Contour Map (April 18, 2023) – Shallow Upgradient Monitoring Wells (Middle-Lower Mary Lee 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 **Figure 6E**, 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 **Figure 6D**, as does the Pratt Coal Group on

Figure 6E, 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 **Figure 6A**, wells tapping the Mary Lee Coal display little hydraulic gradient and potentially show flow towards the Ash Pond and the underground Mary Lee coal mine. As shown on **Figure 6C**, wells tapping 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 ft MSL and down approximately 40 feet from historical operational levels (420 to 423 ft MSL). 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-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

Nine downgradient and delineation wells displayed groundwater elevations above pond elevation (384.03 ft MSL) on April 18, 2023. 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. Based on recent groundwater elevation readings, downgradient well MR-AP-MW-13SR is hydraulically upgradient of the ash pond.

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 a rate of one sample per every group of 10 well samples. 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 monitoring period.

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.

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 a statistically significant increase (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 SSIs 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 SSIs.

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 next update to GWPS will occur no earlier than the Fall of 2023. 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 2023 semi-annual monitoring event 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**.

The following subsections describe statistical exceedances.

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. During the first 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 SSLs 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-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

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 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 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 SSLs in groundwater for arsenic, cobalt, lithium, and molybdenum. Isoconcentration maps are presented in **Figures 7** through **10**, respectively.

A geogenic study to evaluate natural sources of arsenic, cobalt, lithium, and molybdenum is ongoing and should be completed by early summer 2024. 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.

Isoconcentration lines shown on **Figures 7** through **10** 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 SSLs 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**).

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 7, Arsenic Isoconcentration Map (April to May 2023)**, shows the locations and extent of arsenic concentrations over the GWPS during the first semi-annual monitoring event. 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. The increase in arsenic could partially be related to sampling with higher turbidity (~8 NTU vs ~2 NTU) during more recent events. This is supported by the fact that dissolved arsenic was below the GWPS during May 2, 2023 sampling (0.00891mg/L) while total arsenic remained above the GWPS (0.0126 mg/L). Elevated arsenic concentrations could be relieved by well redevelopment or sampling at turbidities lower than 3 NTU.

CCR indicators show consistent decreasing trends, indicating an overall improvement in groundwater quality observed in well MR-AP-MW-3D. Boron, calcium, chloride, conductivity, and sulfate have shown significant decreases in concentration. Additionally, groundwater elevations declined notably over the course of 2022 and early 2023 in response to dewatering activities at the Site. These findings support an overall improvement in groundwater conditions within MR-AP-MW-3D.

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, with the April 2023 concentration of 0.00879 mg/L representing the lowest observed concentration from well MR-AP-MW-5. This continued decline is correlated with decreasing trends in iron, ORP, and conductivity. The deeper paired location MR-AP-PZ-5 has been sampled 20 times with no arsenic

exceedances observed. Of the 20 arsenic samples, 17 have been non-detect (1) or low-level, estimated concentrations (16).

Mary Lee Coal Group

As shown on **Figure 7**, arsenic has exceeded 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 (**Figure 6A**).
- (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 (**Figure 7**).
- (3) Arsenic has not been detected above the GWPS in Mary Lee Coal Group wells (**Figure 7**).
- (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 17 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 early 2022, arsenic has been steadily declining (from 0.061 to 0.024 mg/L). 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. **Figure**

8A, Lithium Isoconcentration Map (April to May 2023), provides lithium concentrations observed during the first semi-annual monitoring event. Data presented on **Figure 8A** 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 7, 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 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 8B, Mary Lee Aquifer – Lithium Isoconcentration Map (April to May 2023), presents lithium concentrations from the first sampling event in the Mary Lee Flow System.

As shown on **Figure 6A**, groundwater elevations from the most recent monitoring event are nearly uniform within the Mary Lee Flow system, with no apparent gradient towards or away from the ash pond. 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 ft MSL) 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 stable or decreasing trends for lithium and boron over the last three sampling events. 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 flat to slightly downward trends for lithium and boron. 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 MSL and groundwater elevations in MR-AP-MW-3D typically range from 325 to 330 feet MSL. 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 strong seasonality, where lithium concentrations typically demonstrate much lower concentrations in the late winter and early spring (0.0875 to 0.10 mg/L) and much higher concentrations in the late summer and early fall (0.215 to 0.230 mg/L). To date, one sample has been collected in the late spring - early summer (the most recent, May 2021), and the concentration observed, 0.1670 mg/L, falls nearly halfway between the

winter-early spring and later summer-early fall concentration ranges. 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 8C, Gillespy Lower Discrete Flow Zone – Lithium Isoconcentration Map (April to May 2023), presents 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 this figure, lithium concentrations ranged from 0.0415 to 0.274 mg/L. Lithium concentrations are near the GWPS at locations MR-AP-MW-4V and MR-AP-MW-20HS but are much higher in locations MR-AP-MW-33H, MR-AP-MW-5, and MR-AP-MW-7SR. Additional delineation locations to the west (MR-AP-MW-34H, MR-AP-MW-18H, MR-AP-MW-19H, MR-AP-MW-19HA) did not observed groundwater flow in the Gillespy Lower Discrete Flow Zone and were installed deeper within the Mary Lee Coal Group (**Figure 8B**).

Historically, MR-AP-MW-4V, located proximal to the ash pond, has demonstrated concentrations below or near the GWPS and therefore, provided northern delineation. However, during the April 2022, lithium concentrations increased to 0.12 mg/L and then again 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.

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 8D, Gillespy Lower Sandstone Unit(s) – Lithium Isoconcentration Map (April to May 2023), presents 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 8C**) and approximately 250 feet above the base of the Mary Lee coal (presented in **Figure 8B**). 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 0212 mg/L in this flow zone during the April-May 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 el. = 423 ft MSL vs interval gw el. = ~259 ft MSL), 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 **Figure 8D**, the Lower Sandstone Interval is delineated to the south by well MR-AP-MW-32H. Additional evaluation of this flow interval may be conducting pending results and recommendations from the Geogenic Study (anticipated Summer 2024).

Gillespy – Upper Sandstone Interval

Figure 8E, Gillespy Coal – Pratt Transition Zone – Lithium Isoconcentration Map (April to May 2023), presents lithium concentrations observed in this zone, which resides approximately 25 to 70 feet above the Gillespy Lower Sandstone Interval (presented in **Figure 8D**).

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 **Figure 8E**, 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 has been observed as an SSL for the first time during the April-May 2023 sampling event. Additional evaluation and delineation near MR-AP-MW-16 may be conducting pending results and recommendations from the Geogenic Study (anticipated Summer 2024).

Pratt Group

Figure 8F, Pratt Coal Group – Lithium Isoconcentration Map (April to May 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 (**Figure 8D**), 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 9, Cobalt Isoconcentration Map (April to May 2023), shows 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 event even though a small increase resulted in a concentration above the GWPS at well MR-AP-MW-6.

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.

Well MR-AP-MW-6V has been sampled 10 times but has never exceeded the GWPS for cobalt. Cobalt has been non-detect in five of these sampling events and displays an average concentration of 0.003 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. 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 a cobalt concentration above the GWPS during the April-May 2023 sampling event. Cobalt concentrations at this location have been steadily decreasing since September 2021 and have fallen from 0.0123 to 0.0078 mg/L. This decline appears related to an overall decrease in DO, conductivity, and iron since well installation activities occurred.

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 six times and has never exceeded the GWPS for cobalt. Cobalt displays a concentration range between non-detect and 0.0009 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.

A cobalt concentration increase in well MR-AP-MW-15 was noted during the Fall 2022 sampling event. During the April-May 2023 sampling event, cobalt concentrations decreased by ~50% but remained elevated with respect to the GWPS. Historically, cobalt has been non-detect or detected only at trace concentrations in 15 of 20 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. Delineation and assessment may be proposed following the conclusion of the geogenic source evaluation study.

Molybdenum concentrations are presented on **Figure 10, Molybdenum Isoconcentration Map (April to May 2024)**.

6.4 STATUS OF DELINEATION

A detailed review of historical geochemical and Site data conducted during the first semi-annual monitoring period 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.

These activities are anticipated to be completed by early Summer 2024

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 constituents of interest (COI) and preferential groundwater flow pathways to prevent COI movement,
- Monitored natural attenuation (MNA) over the entire Site.

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 COIs 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	1. Implementation of expanded MNA sampling parameters. 2. Further assessment of MNA monitoring network.
Permeation Grouting Program	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 Pilot Program using data collected from detailed characterization.

Selected Remedy	Implementation Task(s)
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 2023 sampling event (**Table 6**). 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**.

Permeation Grouting Program

An Implementation and Data Requirements Plan – Permeation Grouting 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 Pilot Program.

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

- Implementation and Data Requirements Plan – Permeation Grouting Pilot Program (4th quarter 2023).
- Fracture-Flow Field Study and Data Analyses – 4th quarter 2023 – 2nd quarter 2024.

- Permeation Grouting Pilot Program – TBD, pending requisite documents and approvals supporting the injection program.

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 is currently being 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-16
- MR-AP-MW-33HS.

These locations provide data coverage from each sector of the ash pond.

6.5.3 Update on Monitoring Period Activities

Activities focused on corrective action were performed during the first half of 2023, including:

- 1) Desktop study for injectability of bedrock and injection treatability studies.
- 2) Sampling of MNA parameters.
- 3) Continued research of geogenic evaluation for Site COIs.
- 4) Hydraulic containment evaluation as an alternate remedy method.

The objectives of the hydraulic desktop study for injectability of bedrock are:

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

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

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

- As part of the hydraulic containment evaluation, remediation areas where COIs could be effectively contained by pumping were identified as a secondary remediation effort. Approximate total steady-state groundwater extraction rates were calculated, and the number and general construction details of extraction wells were estimated.

Work, either ongoing or scheduled, includes:

- Treatability testing to identify suitable reagents that can be used to treat COIs in situ. This work will include an estimate of the mass of precipitated minerals that could form on the fracture surfaces as a result of the injected treatment solution and its impact on aquifer transmissivities and hydraulic conductivities.
- Bedrock core sample laboratory analysis of geochemistry (cation exchange capacity; aluminum-, manganese-, and iron-oxide extractions; bulk chemistry; mineralogy; and microanalysis for COIs in fracture fill) and physical parameters (matrix hydraulic conductivity, porosity, and bulk density).
 - The geochemistry results will inform the treatability studies described above. The physical parameters will be used in the predictive modeling described below. Both the geochemical and physical analyses will inform the design and implementation of the field pilot tests.

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

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

7.0 SUMMARY AND CONCLUSIONS

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

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

- Continue geogenic study to evaluate source of COI in groundwater at the Site.
- Continue with phase 1 implementation of the Permeation Grouting Pilot Program for the remediation of arsenic, lithium, and molybdenum.
- Continue research efforts to evaluate the applicability of two potential groundwater remedial alternatives: in situ treatment and hydraulic containment. Subsequently evaluate technical and implementation feasibility of geochemical manipulation and enhanced MNA technologies.
- Evaluation of recently collected MNA parameter data.
- Conduct the second 2023 semi-annual monitoring event and submit the Annual Groundwater Monitoring and Corrective Action Report summarizing the findings to ADEM by January 31, 2024.

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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	384.23	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 - Pratt Group	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
04/18/2023 - 05/03/2023

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	1-400	mg/L
Fluoride	SM4500F G 2017	0.125	mg/L
pH_Field	Field Sampling	NA	SU
Sulfate	SM4500SO4 E 2011	2-128	mg/L
TDS	NA	NA	mg/L
Appendix IV Parameters			
Parameters	Analytical Methods	Reporting Limits	Units of Measure
Antimony	EPA 200.8	0.001015	mg/L
Arsenic	EPA 200.8	0.000203	mg/L
Barium	EPA 200.8	0.001015-0.092365	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	0.856-1.38	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
03/06/2023 - 04/18/2023

Measurement Date		03/06/2023		04/18/2023	
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	105.29	426.16	N/A	N/A
GS-AP-MW-8	434.61	41.81	392.80	N/A	N/A
MR-AP-MW-1	473.68	N/A	N/A	193.43	280.25
MR-AP-MW-10	541.74	N/A	N/A	151.08	390.66
MR-AP-MW-11	594.02	N/A	N/A	233.04	360.98
MR-AP-MW-12	504.53	N/A	N/A	108.51	396.02
MR-AP-MW-13DR	457.54	N/A	N/A	80.86	376.68
MR-AP-MW-13SR	457.34	N/A	N/A	28.12	429.22
MR-AP-MW-14R	426.05	N/A	N/A	15.76	410.29
MR-AP-MW-15	413.65	N/A	N/A	15.94	397.71
MR-AP-MW-16	418.55	N/A	N/A	31.85	386.70
MR-AP-MW-17H	276.32	N/A	N/A	20.94	255.38
MR-AP-MW-18H	448.98	N/A	N/A	165.00	283.98
MR-AP-MW-19H	384.23	N/A	N/A	228.59	155.64
MR-AP-MW-19HA	399.93	N/A	N/A	119.06	280.87
MR-AP-MW-2	482.33	N/A	N/A	202.18	280.15
MR-AP-MW-20H	384.23	N/A	N/A	123.45	260.78
MR-AP-MW-20HS	373.18	N/A	N/A	49.09	324.09
MR-AP-MW-21	373.18	N/A	N/A	20.12	353.06
MR-AP-MW-22D	364.49	N/A	N/A	27.44	337.05
MR-AP-MW-22I	364.27	N/A	N/A	27.86	336.41
MR-AP-MW-22S	364.64	N/A	N/A	14.76	349.88
MR-AP-MW-23	352.43	N/A	N/A	10.56	341.87
MR-AP-MW-23A	352.64	N/A	N/A	10.69	341.95
MR-AP-MW-27HR	476.42	N/A	N/A	105.06	371.36
MR-AP-MW-28H	488.34	N/A	N/A	86.84	401.50
MR-AP-MW-2V	480.46	N/A	N/A	-10,000.00	n/a
MR-AP-MW-30H	586.17	N/A	N/A	238.66	347.51
MR-AP-MW-31H	551.18	N/A	N/A	233.72	317.46
MR-AP-MW-32H	322.22	N/A	N/A	61.18	261.04
MR-AP-MW-33H	321.53	N/A	N/A	20.76	300.77
MR-AP-MW-34H	431.45	N/A	N/A	151.16	280.29
MR-AP-MW-35H	305.12	N/A	N/A	9.76	295.36

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 casing, therefore, cannot be measured



Table 3. Groundwater Elevations Summary

Plant Miller Ash Pond
03/06/2023 - 04/18/2023

Measurement Date		03/06/2023		04/18/2023	
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-36HR	540.50	N/A	N/A	199.10	341.40
MR-AP-MW-37H	440.12	N/A	N/A	106.03	334.09
MR-AP-MW-3D	437.06	N/A	N/A	116.82	320.24
MR-AP-MW-3S	436.27	N/A	N/A	96.22	340.05
MR-AP-MW-3V	438.04	N/A	N/A	157.18	280.86
MR-AP-MW-4	422.47	N/A	N/A	51.97	370.50
MR-AP-MW-4V	422.22	N/A	N/A	97.49	324.73
MR-AP-MW-5	279.22	N/A	N/A	0.00	Artesian
MR-AP-MW-6	374.30	N/A	N/A	11.46	362.84
MR-AP-MW-6V	375.95	N/A	N/A	116.00	259.95
MR-AP-MW-7DR	335.44	N/A	N/A	76.83	258.61
MR-AP-MW-7SR	335.65	N/A	N/A	11.32	324.33
MR-AP-MW-9DR	466.12	N/A	N/A	79.78	386.34
MR-AP-MW-9SR	465.60	N/A	N/A	74.80	390.80
MR-AP-PZ-5	279.66	N/A	N/A	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 casing, therefore, cannot be measured



Table 4a. Relative Percent Difference (RPD) Calculations

Plant Miller Ash Pond
04/18/2023 - 05/03/2023

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%
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%



Table 4a. Relative Percent Difference (RPD) Calculations

Plant Miller Ash Pond
04/18/2023 - 05/03/2023

MR-AP-MW-20HS				
Sample Date = 4/19/2023				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
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%
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%

Notes:

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



Table 4b. - Field QC: Blank Detections

Plant Greene County Ash Pond
05/15/2023 - 05/31/2023

Parameters Detected Above MDL					
Sample Date	QC Location	Parameter	Blank Concentration	Units	MDL
05/30/2023	FB-4	Fluoride	0.062 J	mg/L	0.06
05/31/2023	FB-2	Chromium	0.00023 J	mg/L	0.0002
05/30/2023	FB-4	Chromium	0.00021 J	mg/L	0.0002
05/17/2023	FB-1	Chromium	0.00027 J	mg/L	0.0002
05/15/2023	FB-1	Chromium	0.00023 J	mg/L	0.0002
05/15/2023	EB-1	Chromium	0.00024 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	0.00114	0.006
Arsenic	mg/L	0.00645	0.01
Barium	mg/L	12.4	2
Beryllium	mg/L	0.001015	0.004
Cadmium	mg/L	0.000203	0.005
Chromium	mg/L	0.0011	0.1
Cobalt	mg/L	0.00294	0.006
Fluoride	mg/L	0.436	4
Lead	mg/L	0.000323	0.015
Lithium	mg/L	1.16	0.04
Mercury	mg/L	0.0005	0.002
Molybdenum	mg/L	0.0163	0.1
Selenium	mg/L	0.001015	0.05
Thallium	mg/L	0.000203	0.002
Combined Radium 226 + 228	pCi/L		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:

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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

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:

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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

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

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 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

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 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

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 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

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

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

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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
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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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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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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**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

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	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

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**

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

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

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- 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

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- 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

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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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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

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

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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

Notes:

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6. NC = value not detected with alkalinity calculation

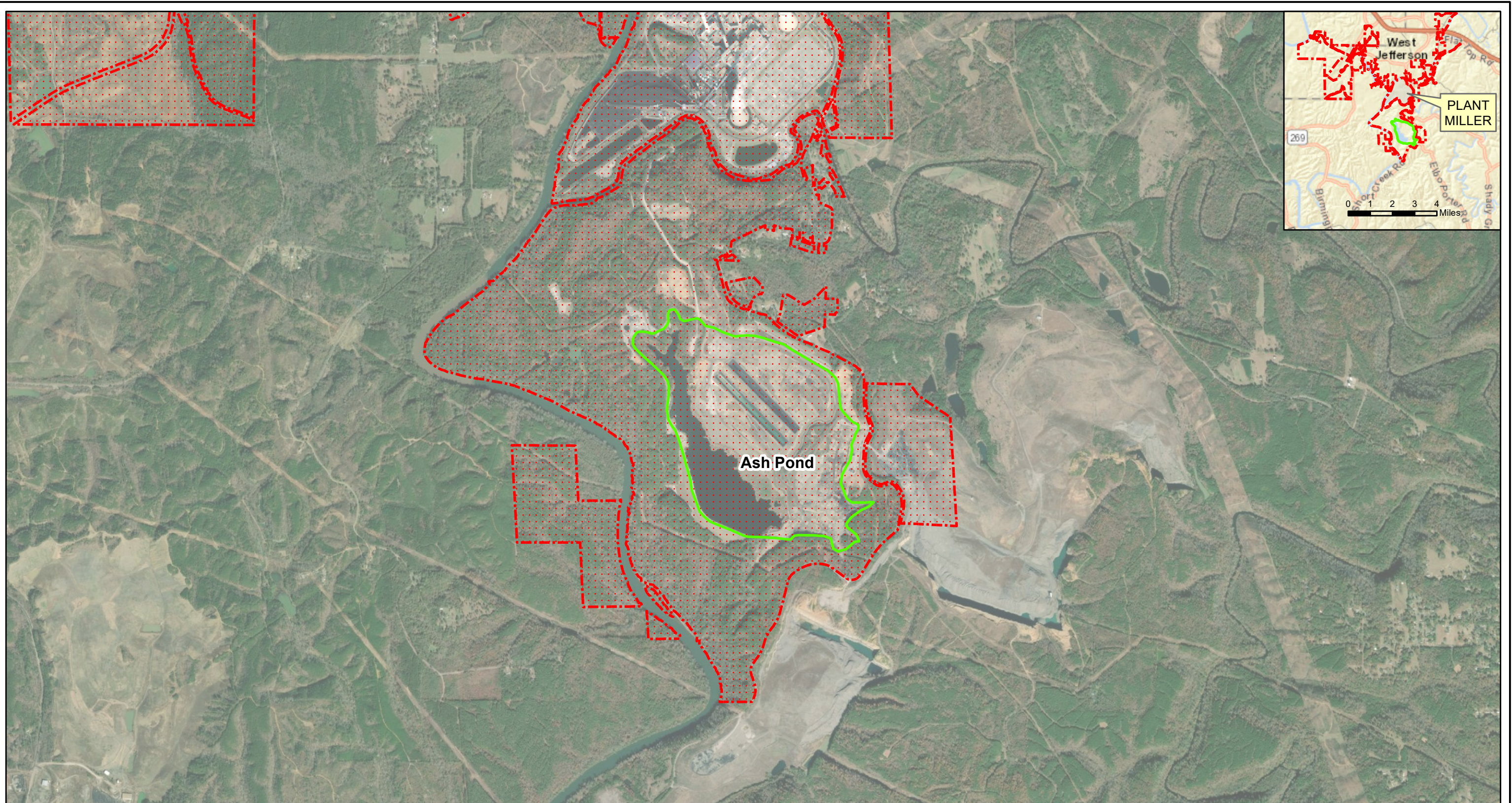


**Table 7.
Pottsville Background - Lithium and Boron Concentrations**

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


Figures

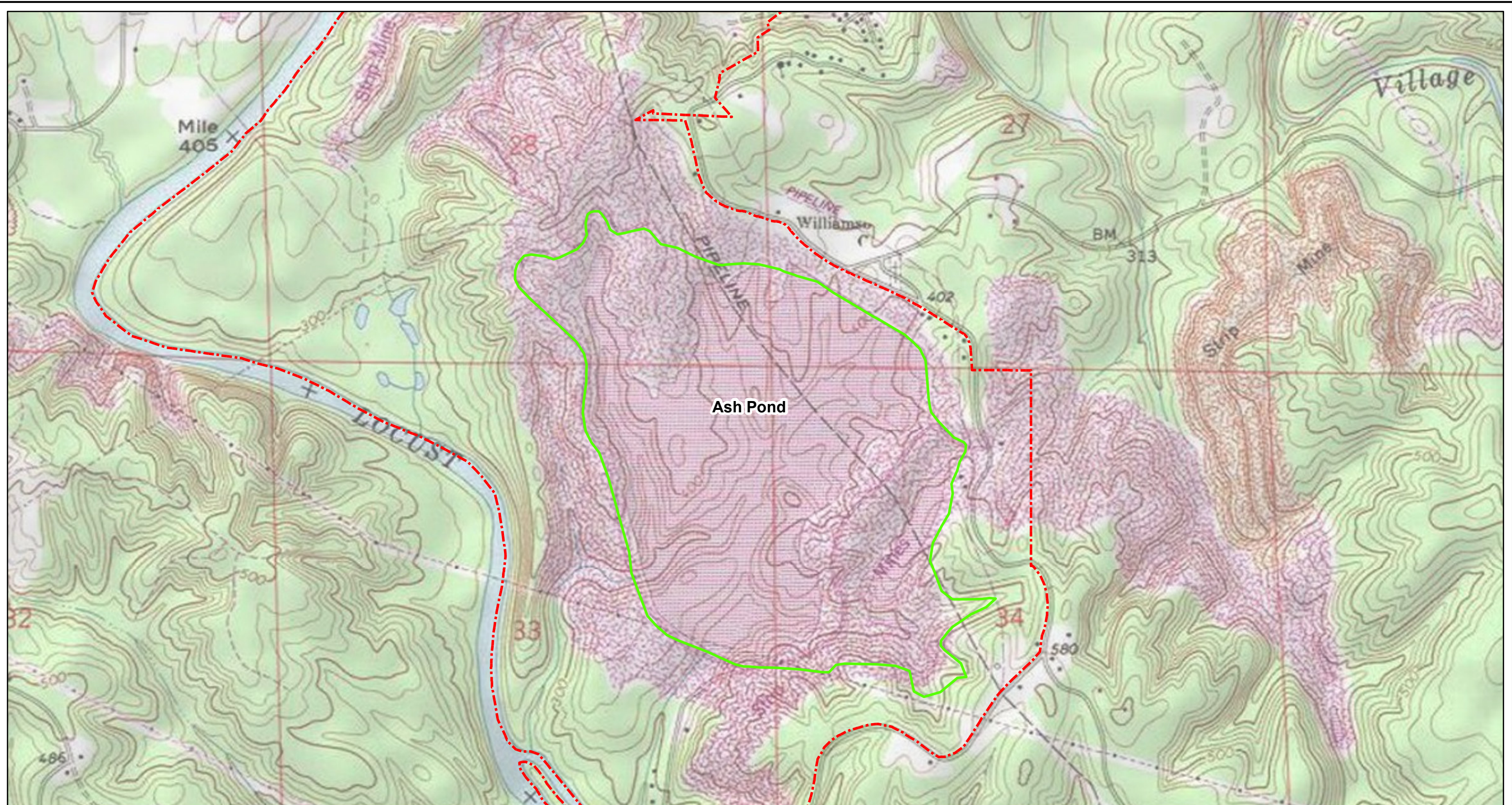


- Legend**
- Ash Pond Boundary
 - Property Boundary (Approximate)



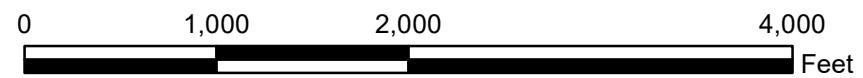
SCALE	1:24000
DATE	12/16/2020
DRAWN BY	KWR
CHECKED BY	GBD

DRAWING TITLE	
SITE LOCATION MAP PLANT MILLER ASH POND	
FIGURE NO	
FIGURE 1	



Legend

- Property Boundary (Approximate)
- Ash Pond Boundary



SCALE 1:12000

DATE 6/19/2020

DRAWN BY KAR

CHECKED BY GBD

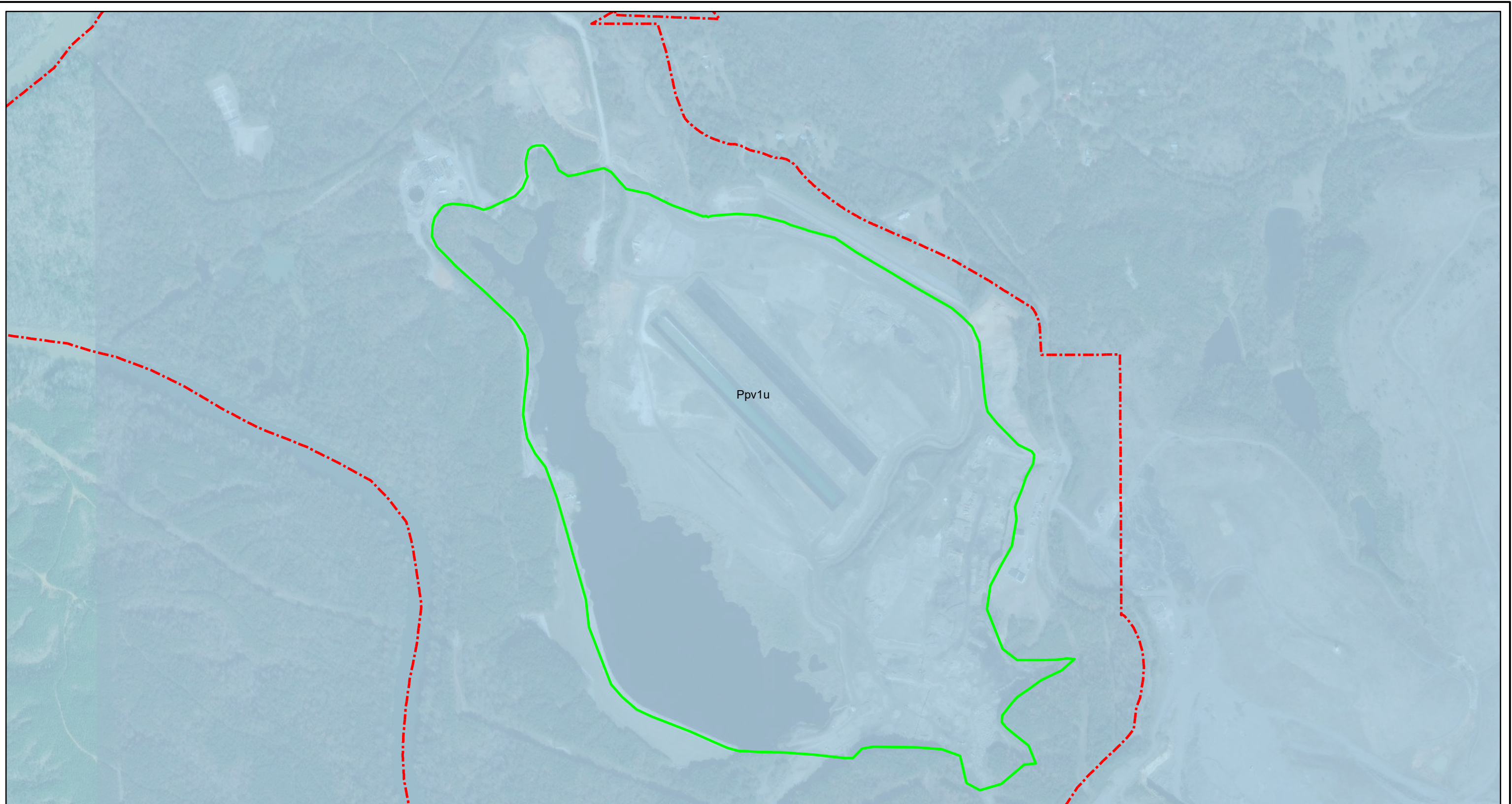
DRAWING TITLE

**SITE TOPOGRAPHIC MAP
PLANT MILLER ASH POND**

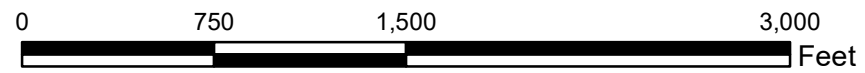
FIGURE NO

FIGURE 2





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



SCALE 1:9000

DATE 6/19/2020

DRAWN BY KAR

CHECKED BY GBD

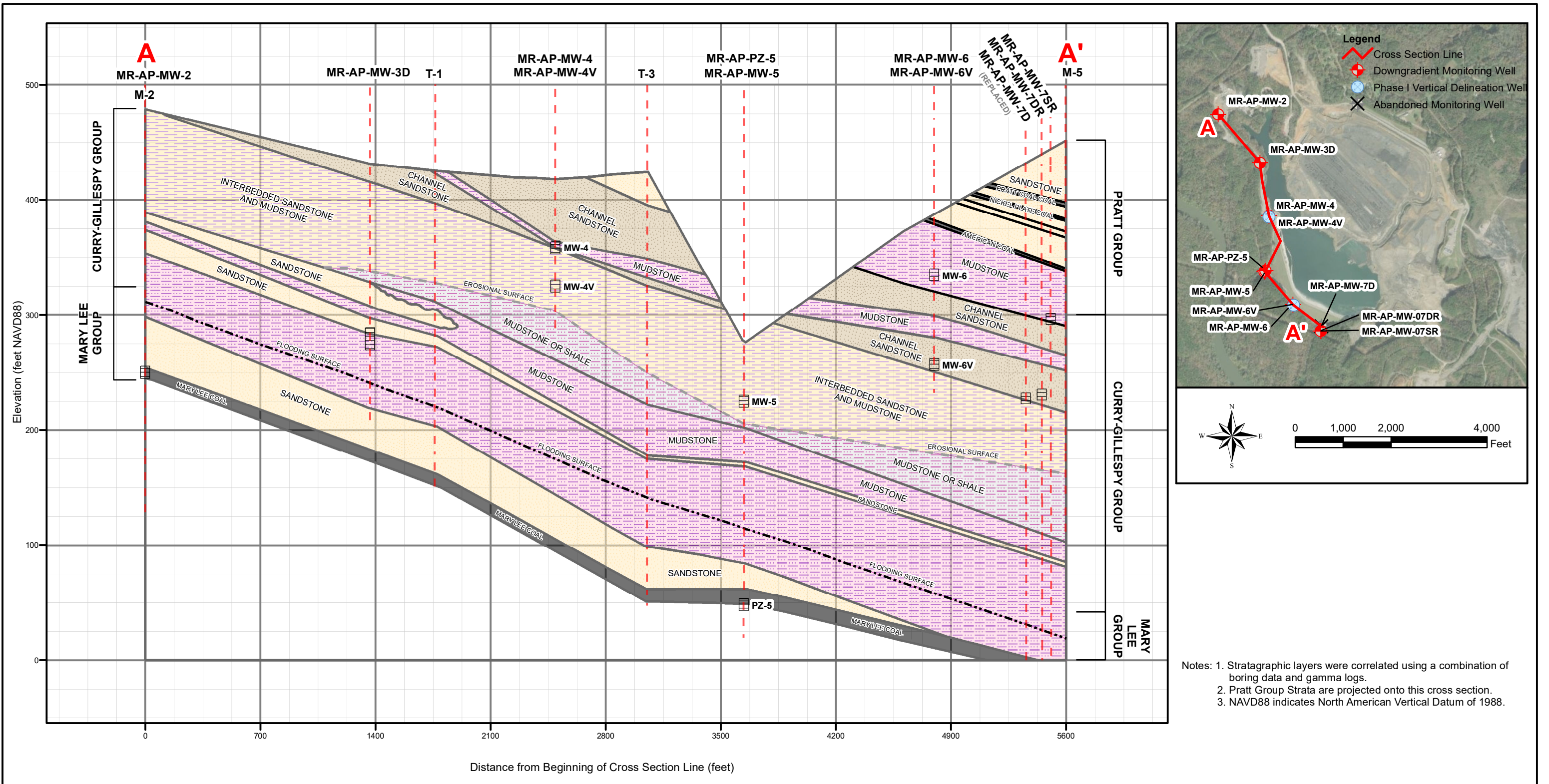
DRAWING TITLE

SITE GEOLOGIC MAP
PLANT MILLER ASH POND

FIGURE NO

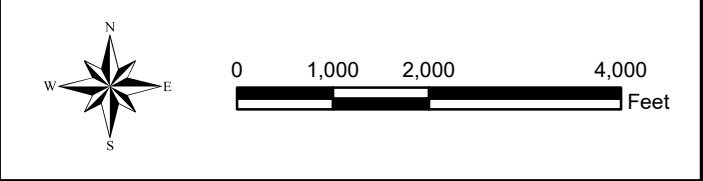
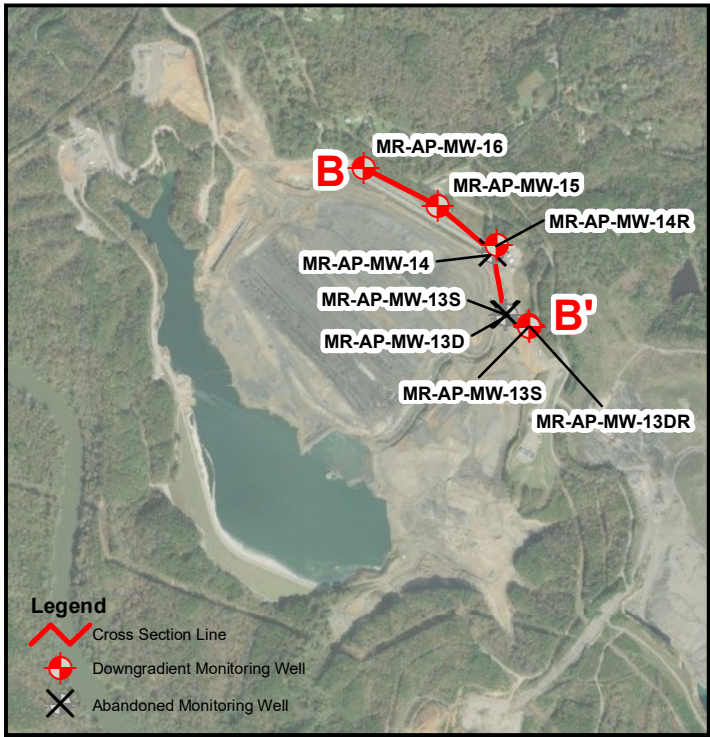
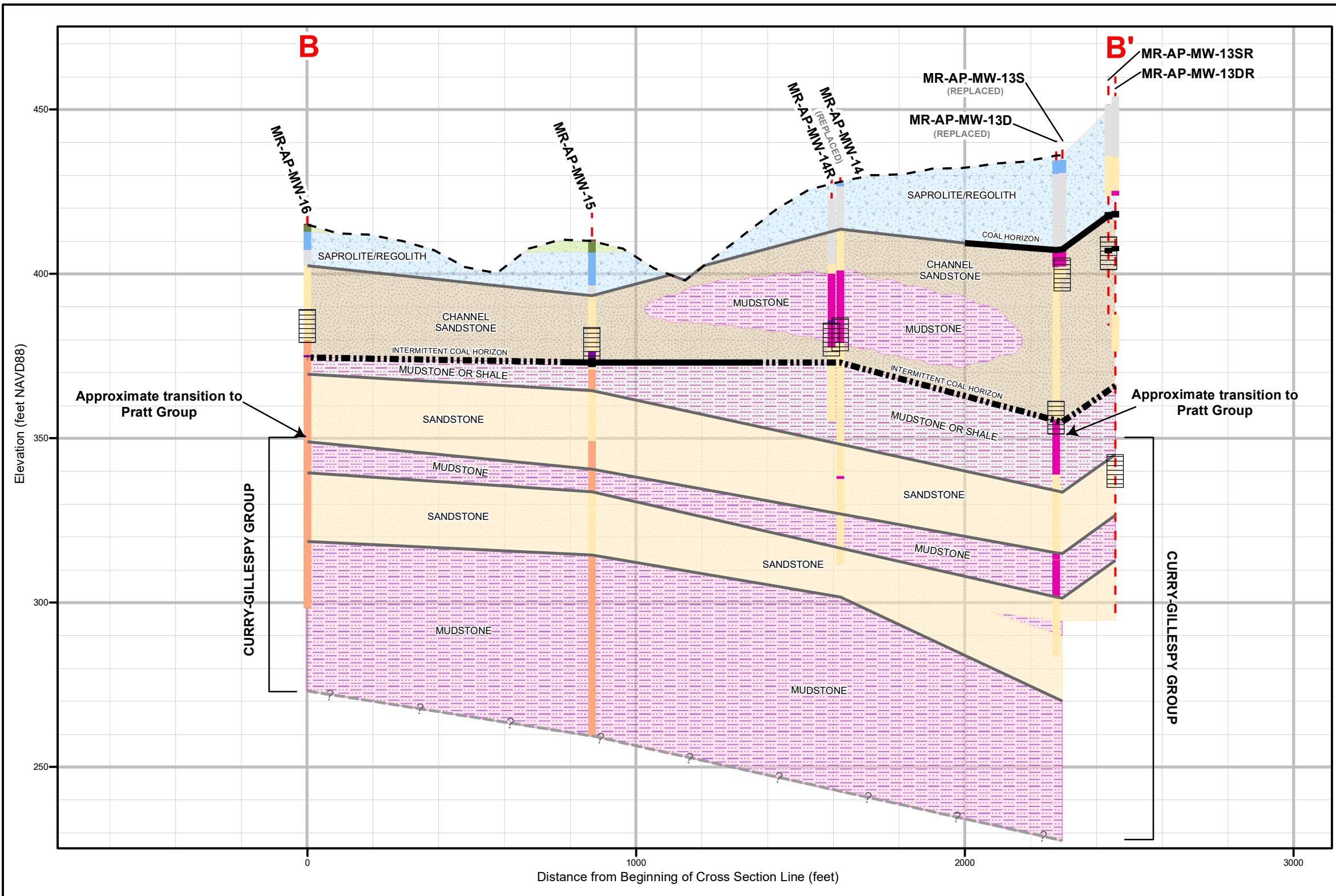
FIGURE 3





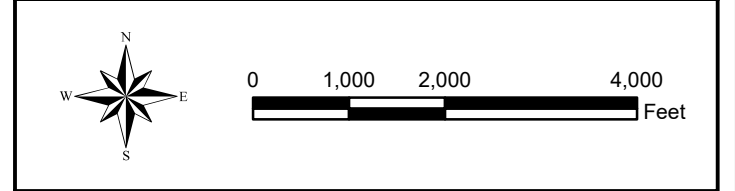
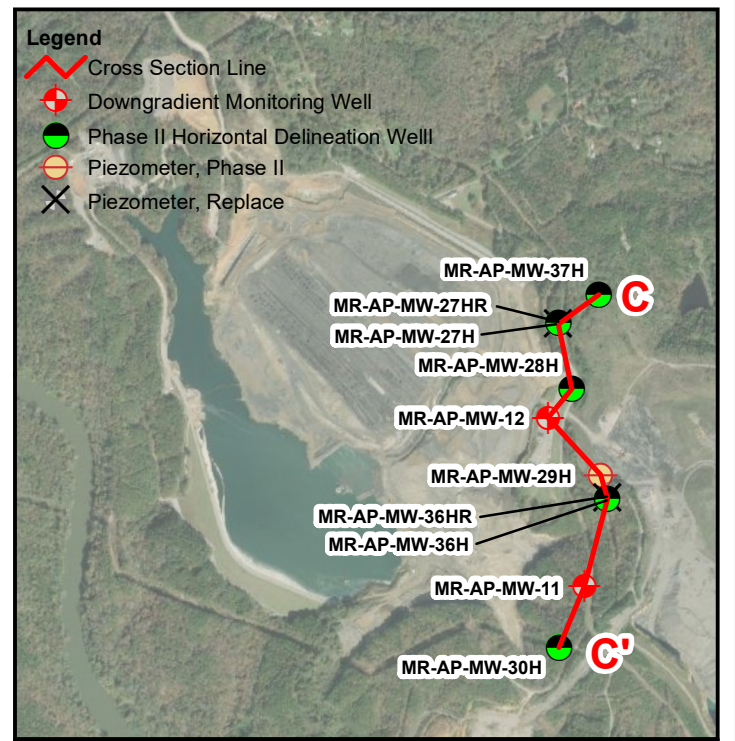
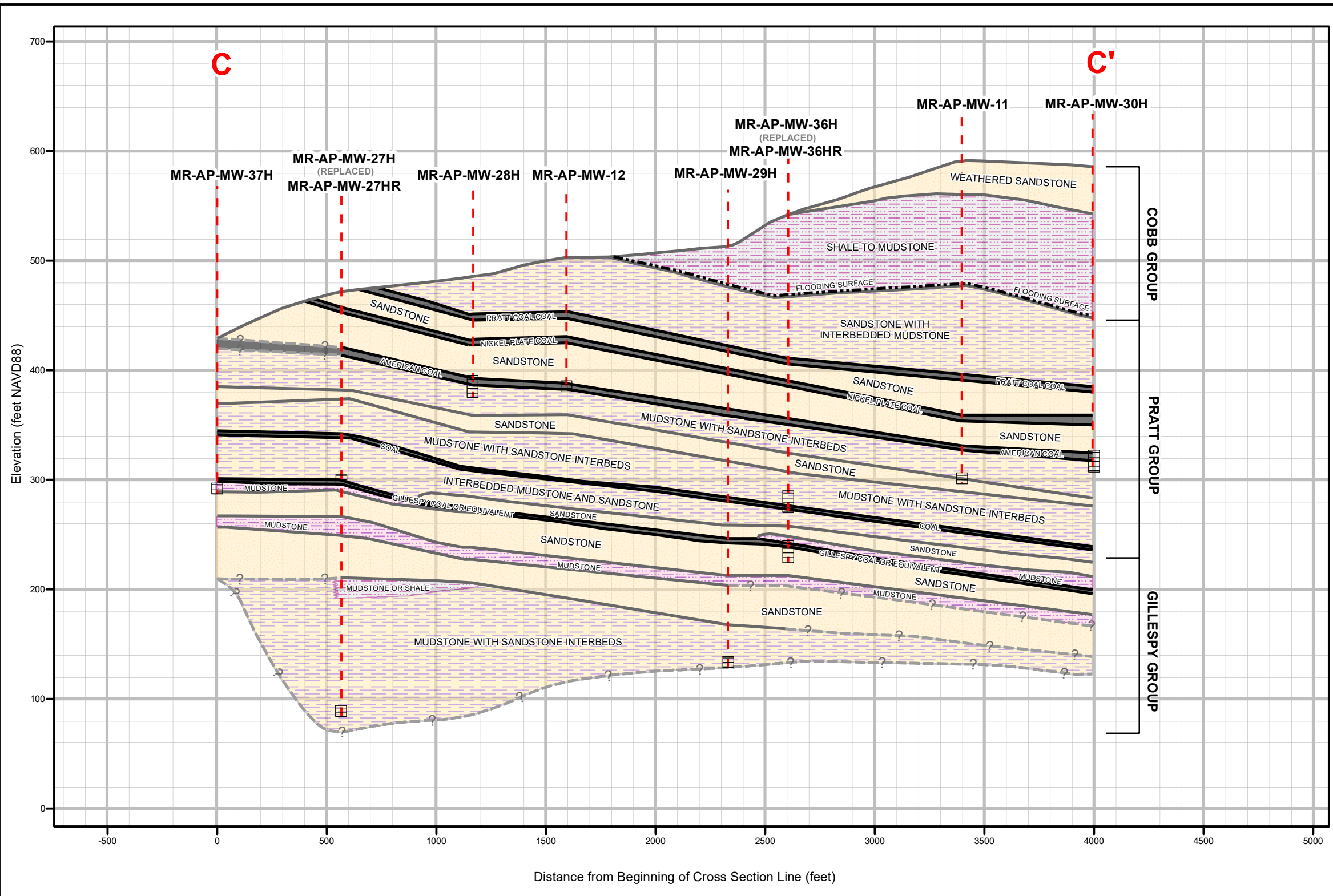
Notes: 1. Stratigraphic layers were correlated using a combination of boring data and gamma logs.
 2. Pratt Group Strata are projected onto this cross section.
 3. NAVD88 indicates North American Vertical Datum of 1988.

Legend 	Geologic Units 		SCALE As Shown	DRAWING TITLE GEOLOGIC CROSS SECTION A - A' PLANT MILLER ASH POND	
			DATE 8/1/2021		
			DRAWN BY KWR		
			CHECKED BY GBD	FIGURE NO FIGURE 4A	



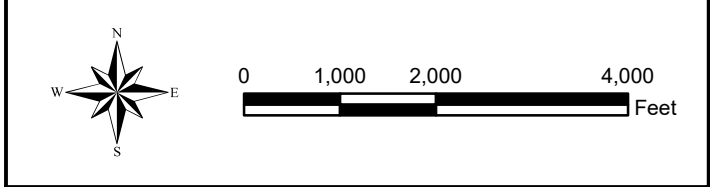
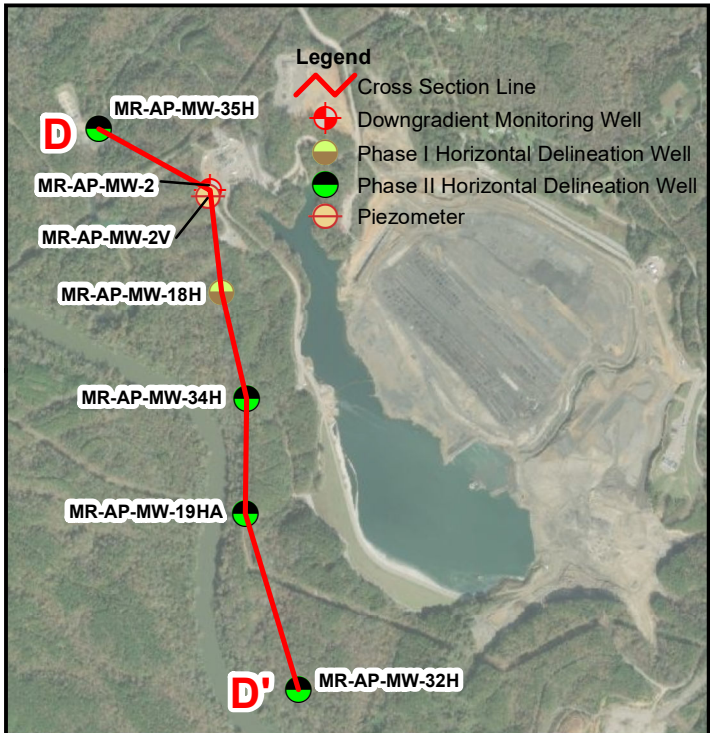
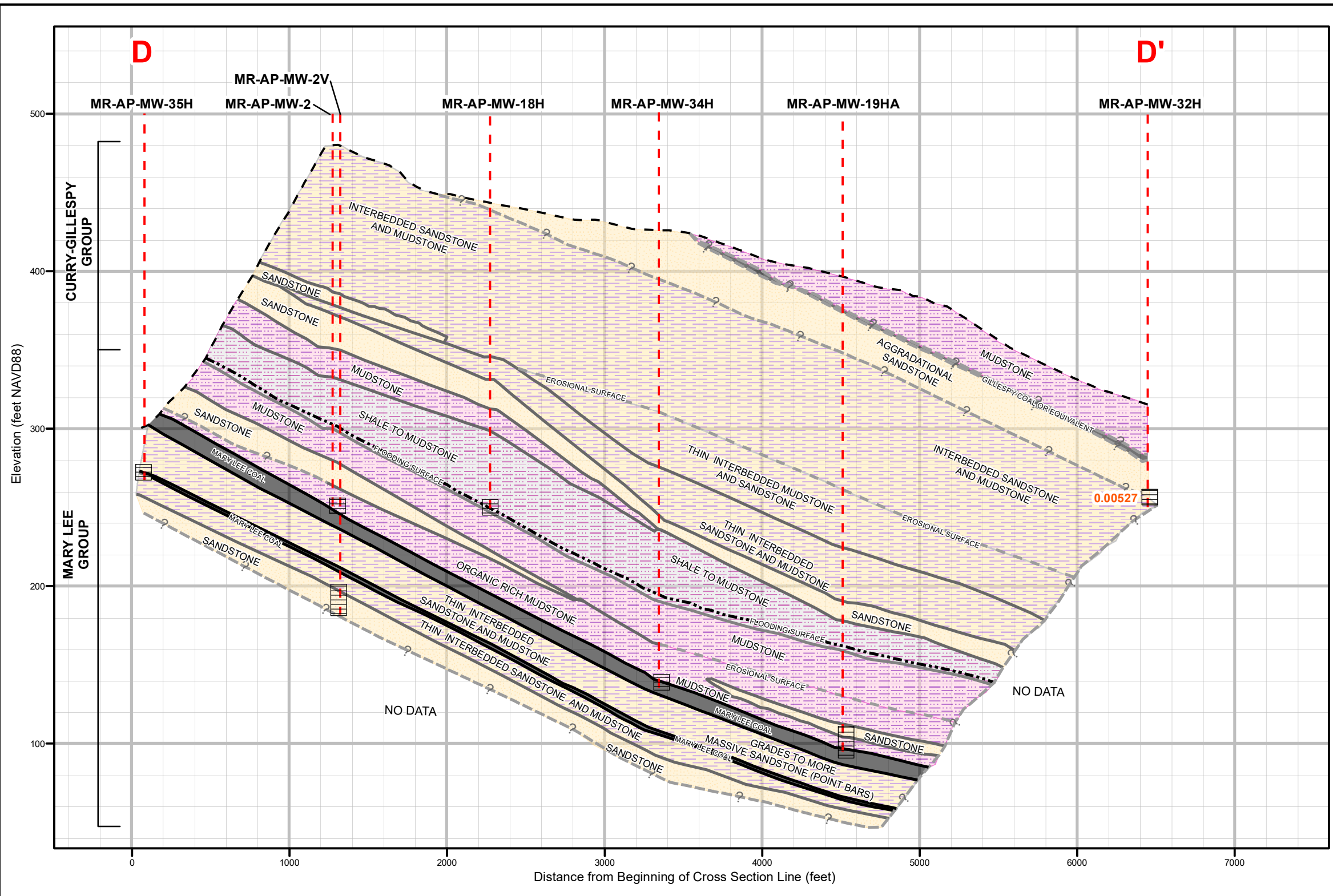
Notes: 1. Stratigraphic layers were correlated using a combination of boring data and gamma logs.
 2. Source of ground surface elevation data: Lidar
 3. NAVD88 indicates North American Vertical Datum of 1988.

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	7/26/2021		
	Inferred Strata Boundary		Data unavailable		Sandstone	DRAWN BY	FIGURE NO FIGURE 4B	
	Strata Boundary		Saprolite/Regolith		Mudstone or Shale	KWR		
	Intermittent Coal		Clayey Silt		Mudstone	CHECKED BY	Southern Company	
	Coal		Sand		Channel Sandstone	GBD		
			Gravel and Sand		Coal			
			Interbedded Mudstone and Sandstone					
			Sandstone with Thin Coal Beds					
			Coal lense					



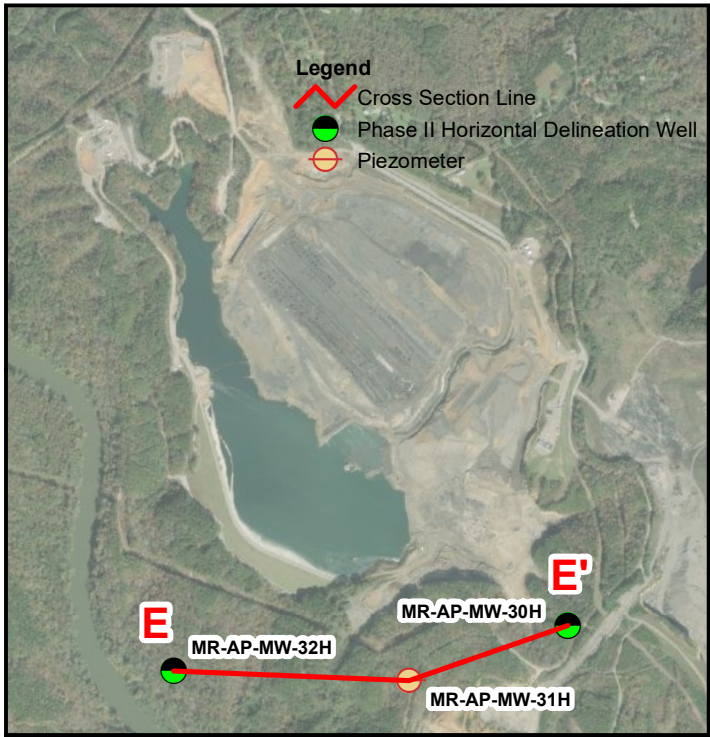
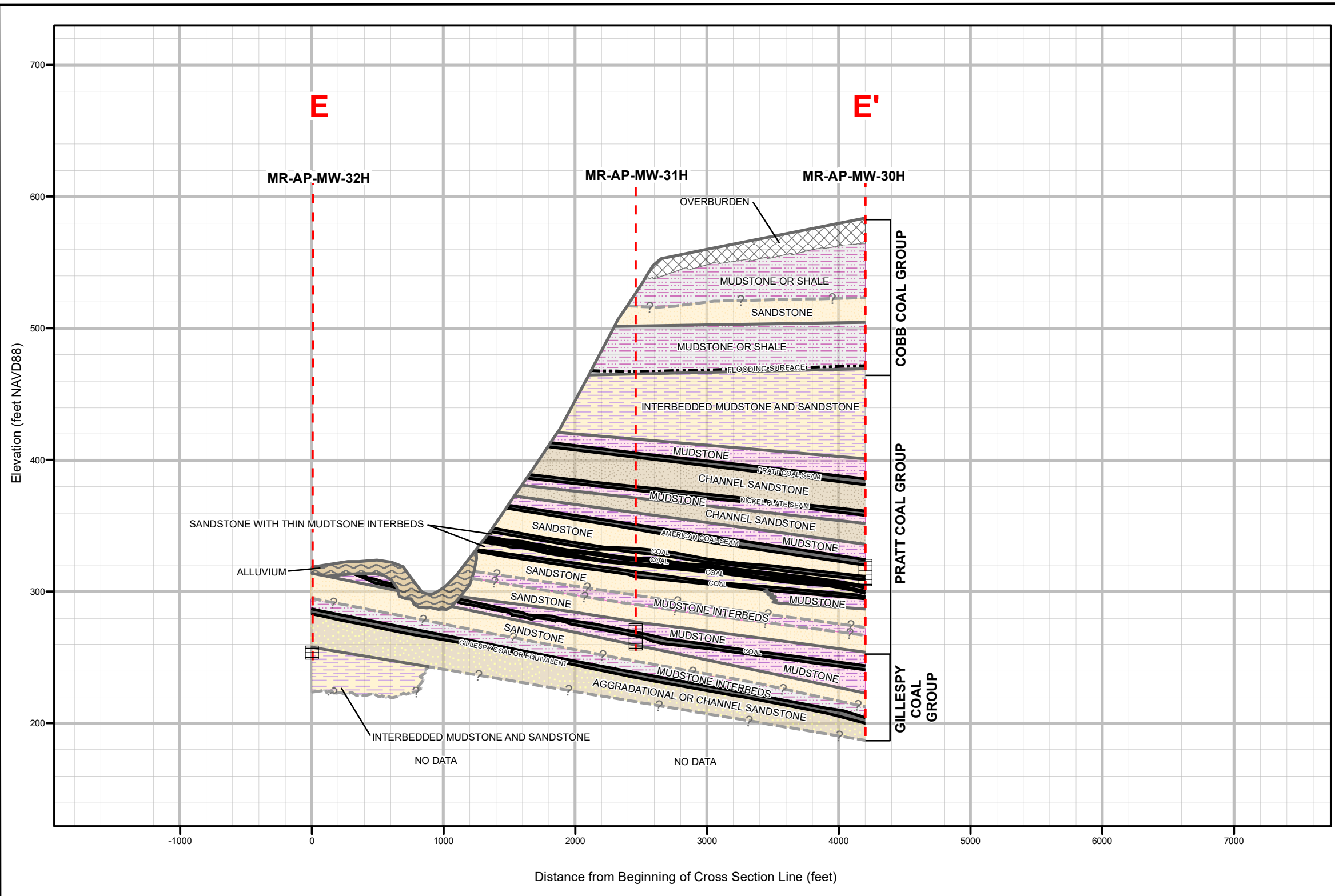
Notes: 1. Stratigraphic layers were correlated using a combination of boring data and gamma logs.
 2. Approximate Groundwater Elevation data are reported using North American Vertical Datum of 1988 (NAVD88).

Legend 	Geologic Units		SCALE	DRAWING TITLE	
			As Shown	GEOLOGIC CROSS SECTION C - C' PLANT MILLER ASH POND	
			DATE		
			DRAWN BY	KWR	FIGURE NO
		CHECKED BY	GBD		



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 	SCALE	DRAWING TITLE	
	As Shown	GEOLOGIC CROSS SECTION D - D' PLANT MILLER ASH POND	
	DATE		
	DRAWN BY	MDM	FIGURE NO
CHECKED BY	GBD		



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

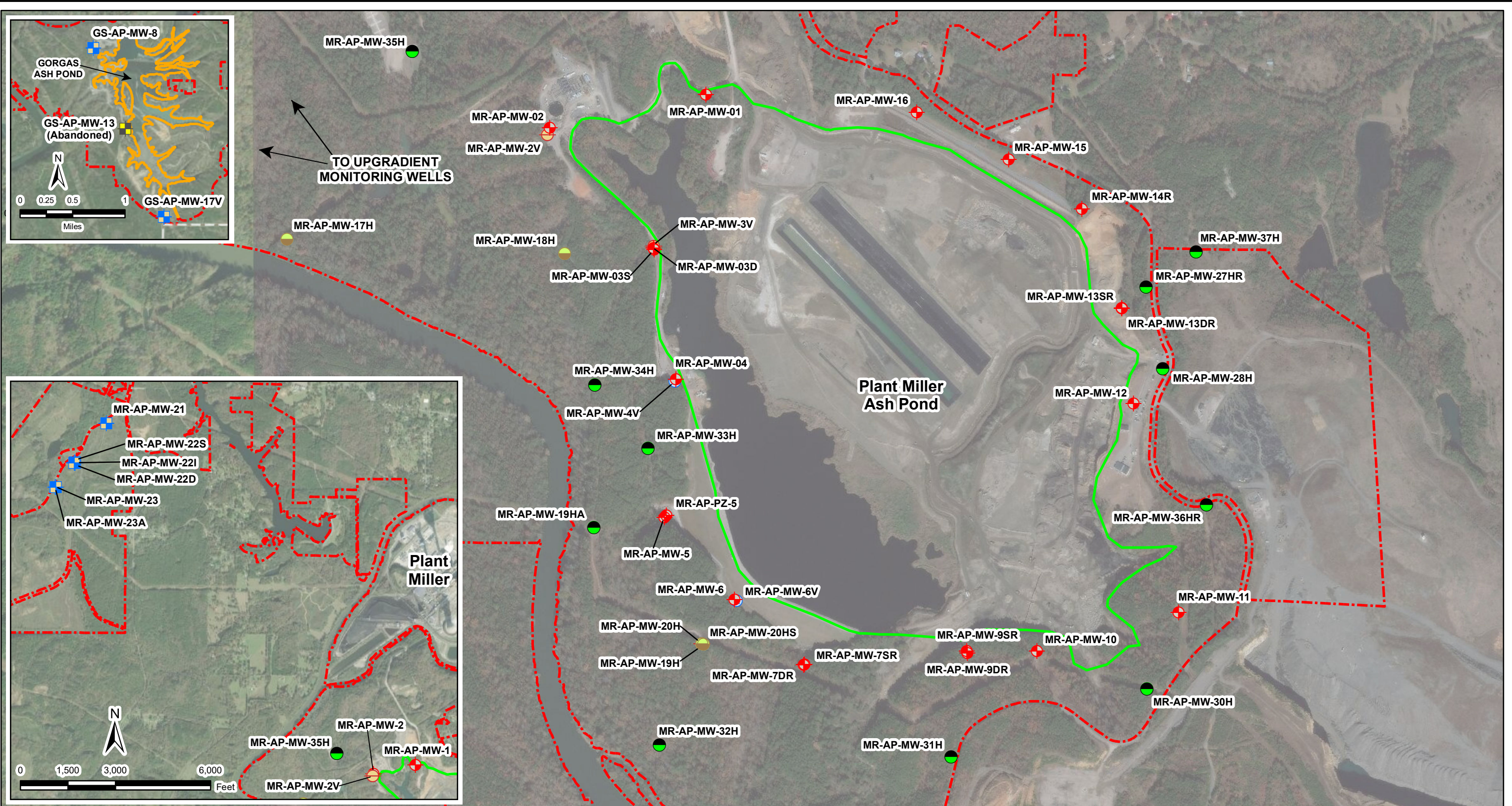
- Screen Interval
- Monitoring Well Location
- Inferred Strata Boundary
- Strata Boundary
- Flooding Surface
- Erosional Surface
- Coal

Geological Units

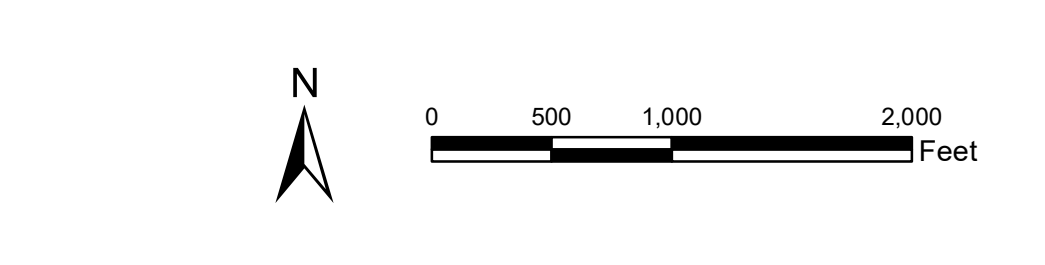
- Alluvium
- Overburden
- Mudstone or Shale
- Mudstone
- Interbedded Mudstone and Sandstone
- Channel Sandstone
- Aggradational or Channel Sandstone
- Sandstone
- Coal

SCALE	As Shown
DATE	7/26/2021
DRAWN BY	JEM
CHECKED BY	GBD

DRAWING TITLE	
GEOLOGIC CROSS SECTION E - E' PLANT MILLER ASH POND	
FIGURE NO	FIGURE 4E
Southern Company	



Legend					
	Downgradient Monitoring Well		Phase I Horizontal Delineation Well		Ash Pond Boundary (Plant Gorgas)
	Upgradient Monitoring Well		Phase I Vertical Delineation Well		Ash Pond Boundary (Plant Miller)
	Abandoned Upgradient Monitoring Well		Phase II Horizontal Delineation Well		Property Boundary (Approximate)
			Piezometer		



SCALE	1:9600	DRAWING TITLE	
DATE	7/27/2021	MONITORING WELL LOCATION MAP PLANT MILLER ASH POND	
DRAWN BY	KAR	FIGURE NO	
CHECKED BY	GBD	FIGURE 5	



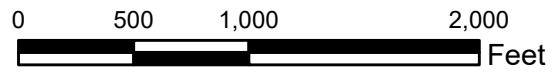
Well ID	Purpose	Groundwater Elevation
MR-AP-MW-18H	Horizontal Delineation	283.98
MR-AP-MW-2V	Piezometer	DRY

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

Legend

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

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



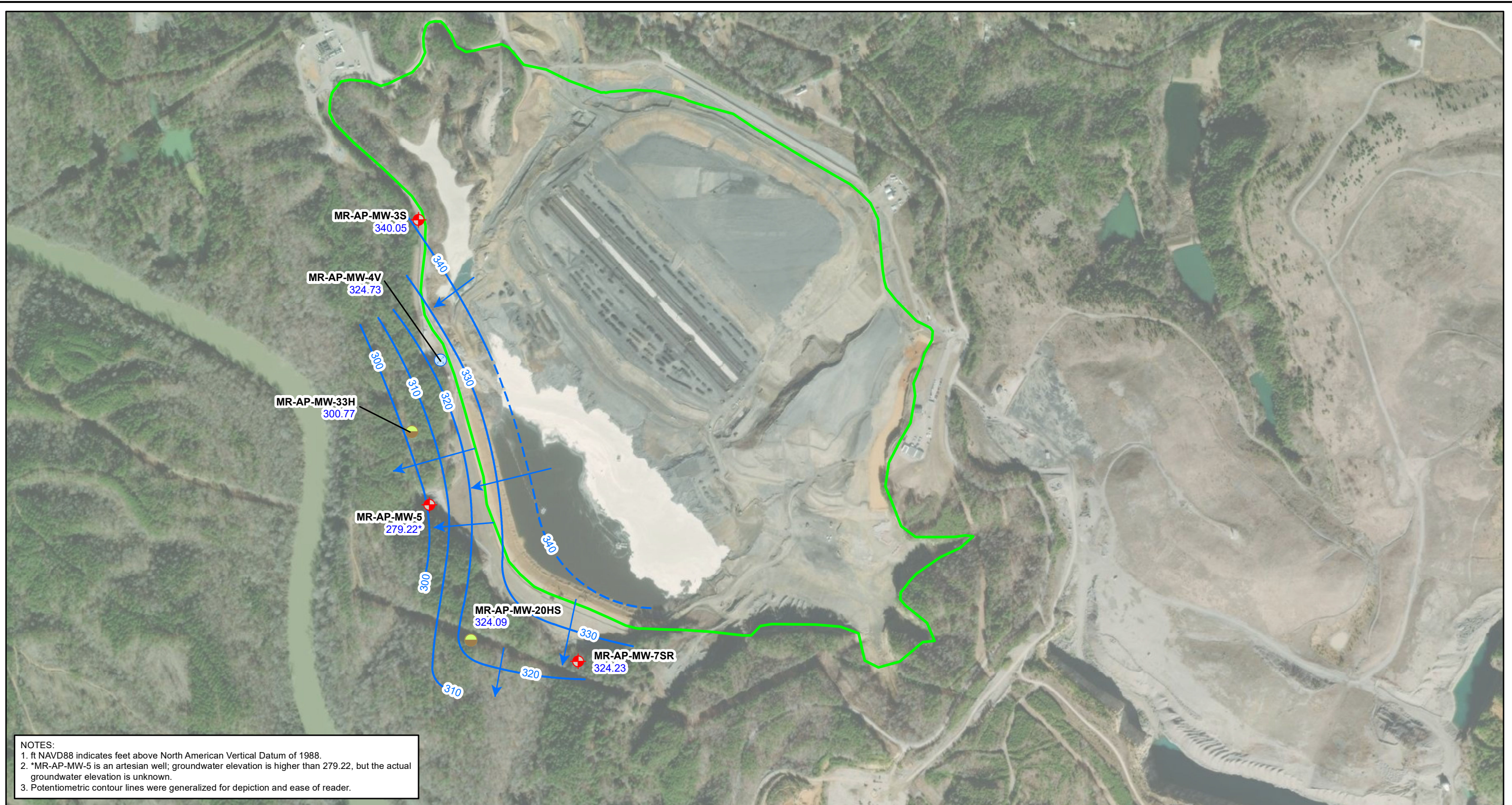
NOTES:

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. MW-2V, MW-17H, and MW-35H are located stratigraphically lower than the Mary Lee Coal but within the Mary Lee Coal Group; MW-2V was effectively dry.
4. MW-3V and MW-18H are located stratigraphically above the Mary Lee Coal but within the Mary Lee Coal Group.

SCALE	1:10000
DATE	7/31/2023
DRAWN BY	KAR
CHECKED BY	GBD








DRAWING TITLE
POTENTIOMETRIC SURFACE CONTOUR MAP
 APRIL 18, 2023
 MARY LEE AQUIFER
 PLANT MILLER ASH POND

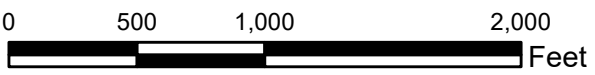
FIGURE NO
FIGURE 6A



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



SCALE	1:9000
DATE	7/31/2023
DRAWN BY	KAR
CHECKED BY	GBD

DRAWING TITLE	POTENTIOMETRIC SURFACE CONTOUR MAP
	APRIL 18, 2023
FIGURE NO	FIGURE 6B

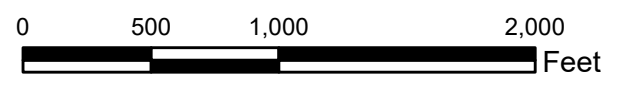




Legend

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

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

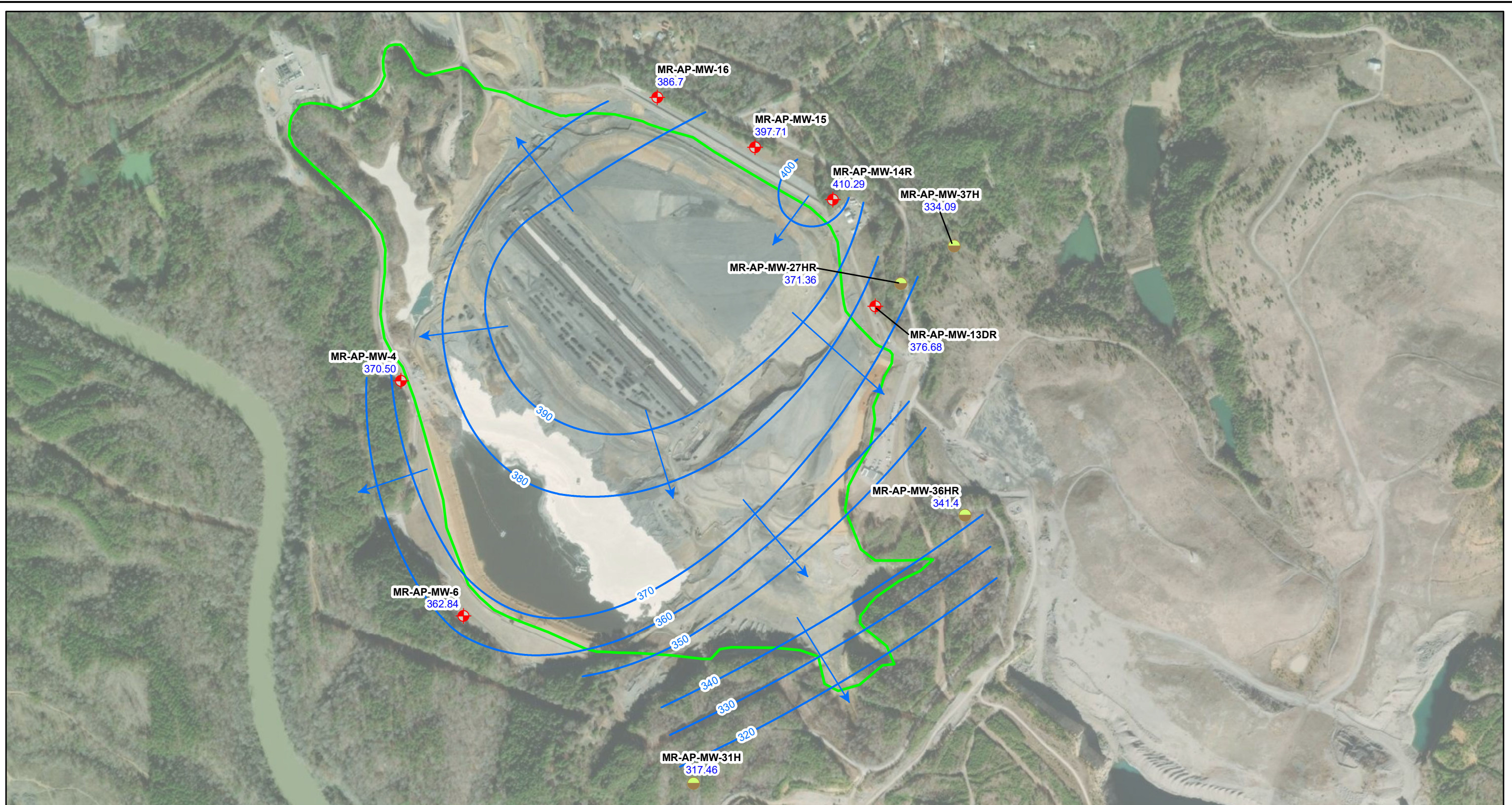


- NOTES: 1. ft NAVD88 indicates feet above North American Vertical Datum of 1988.
 2. Potentiometric contour lines were generalized for depiction and ease of reader.
 3. Wells MW-6V, MW-7DR, and MW-32H monitor parallel-to-bedding-plane fractures within Gillespy Coal Group sandstones.
 4. MW-20H, while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

SCALE	1:9000
DATE	7/31/2023
DRAWN BY	KAR
CHECKED BY	GBD

DRAWING TITLE	
POTENTIOMETRIC SURFACE CONTOUR MAP APRIL 18, 2023 GILLESPIY LOWER SANDSTONE UNIT(S) PLANT MILLER ASH POND	
FIGURE NO	FIGURE 6C

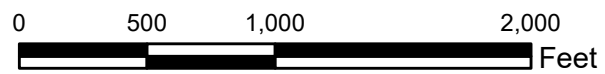




Legend

- Downgradient
- Horizontal Delineation
- Ash Pond Boundary
- Conceptual Potentiometric Surface Contour (ft NAVD88)
- Inferred Conceptual Potentiometric Surface Contour (ft NAVD88)
- Approximate Groundwater Flow Direction

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

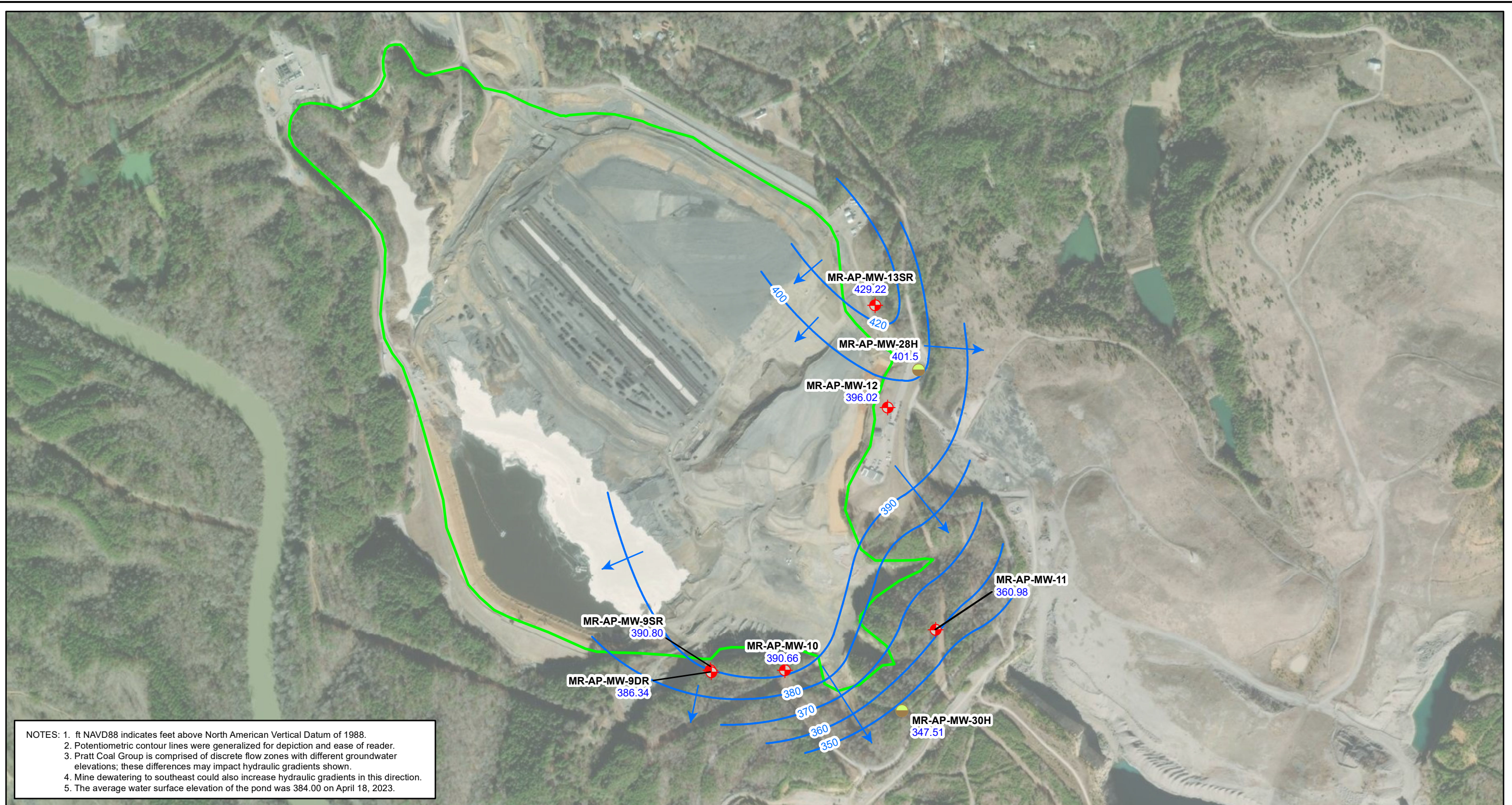


NOTES: 1. ft NAVD88 indicates feet above North American Vertical Datum of 1988.
 2. Potentiometric contour lines were generalized for depiction and ease of reader.
 3. MW-37H is screened in lower portions of transition zone and slightly increases hydraulic gradients to southeast.

SCALE	1:9000
DATE	7/31/2023
DRAWN BY	KAR
CHECKED BY	GBD

DRAWING TITLE	
POTENTIOMETRIC SURFACE CONTOUR MAP	
APRIL 18, 2023	
GILLESPY COAL - PRATT TRANSITION ZONE	
PLANT MILLER ASH POND	
FIGURE NO	FIGURE 6D

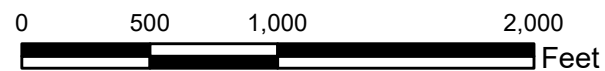




NOTES: 1. ft NAVD88 indicates feet above North American Vertical Datum of 1988.
 2. Potentiometric contour lines were generalized for depiction and ease of reader.
 3. Pratt Coal Group is comprised of discrete flow zones with different groundwater elevations; these differences may impact hydraulic gradients 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
- Horizontal Delineation
- Conceptual Potentiometric Surface Contour (ft NAVD88)
- Approximate Groundwater Flow Direction
- Ash Pond Boundary
- MR-AP-MW-9SR** Well ID
390.80 Groundwater Elevation







SCALE	1:9000	DRAWING TITLE POTENTIOMETRIC SURFACE CONTOUR MAP APRIL 18, 2023 PRATT COAL GROUP (GENERALIZED) PLANT MILLER ASH POND
DATE	7/31/2023	
DRAWN BY	KAR	FIGURE NO FIGURE 6E
CHECKED BY	GBD	





Legend

-  Upgradient
-  Conceptual Potentiometric Surface Contour (ft NAVD88)
-  Approximate Groundwater Flow Direction
-  Property Boundary (Approximate)

MR-AP-MW-22D Well ID
 337.05 Groundwater Elevation



NOTE: ft NAVD88 indicates feet above North American Vertical Datum of 1988.

SCALE 1:12000

DATE 8/1/2023

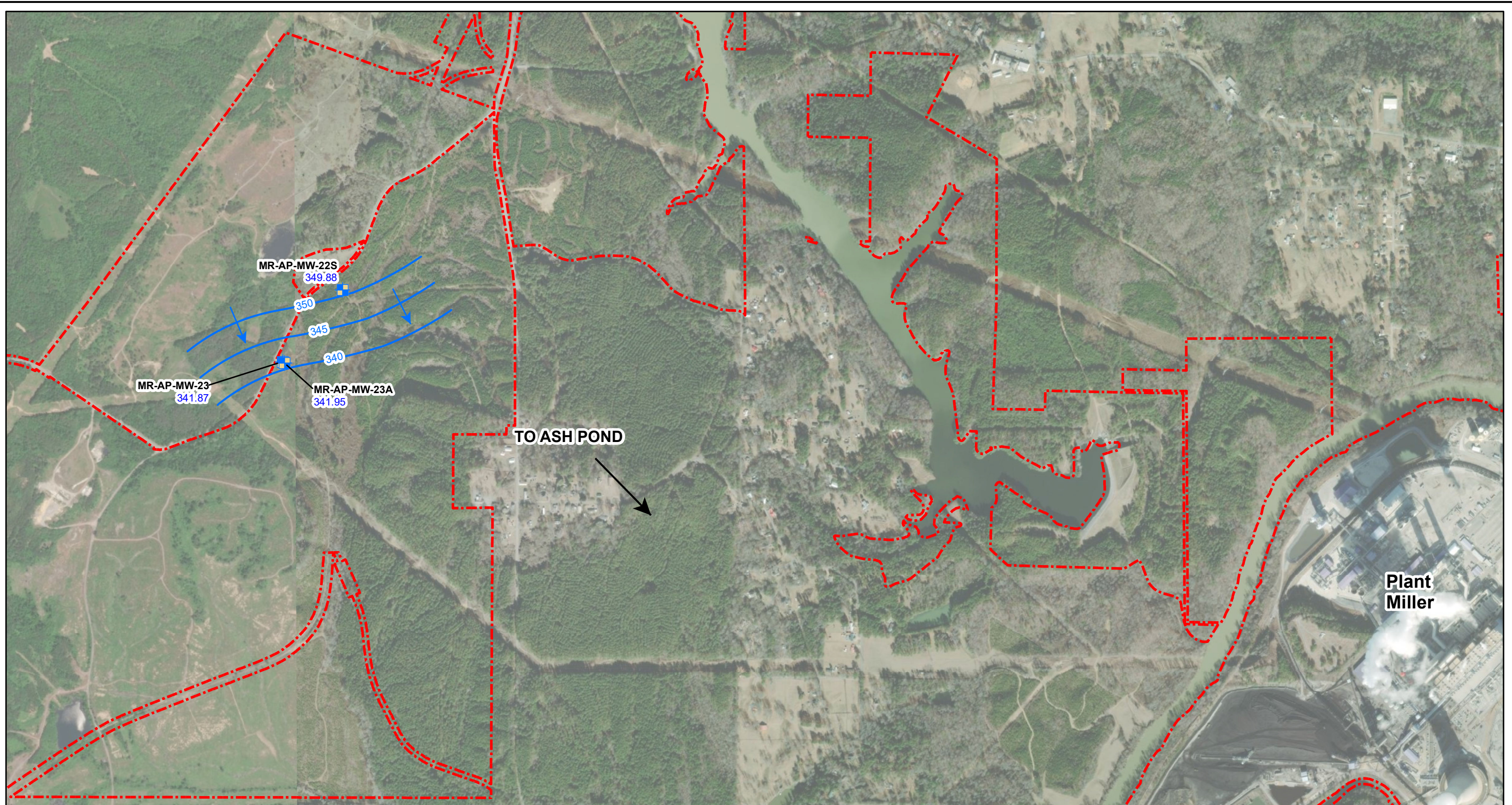
DRAWN BY KAR





CHECKED BY GBD

DRAWING TITLE
POTENTIOMETRIC SURFACE CONTOUR MAP
 APRIL 18, 2023
UPGRADIENT MONITORING WELLS - DEEP
PLANT MILLER ASH POND

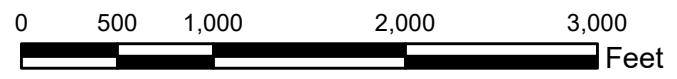
FIGURE NO
FIGURE 6F






- Legend**
-  Upgradient
 -  Conceptual Potentiometric Surface Contour (ft NAVD88)
 -  Approximate Groundwater Flow Direction
 -  Property Boundary (Approximate)

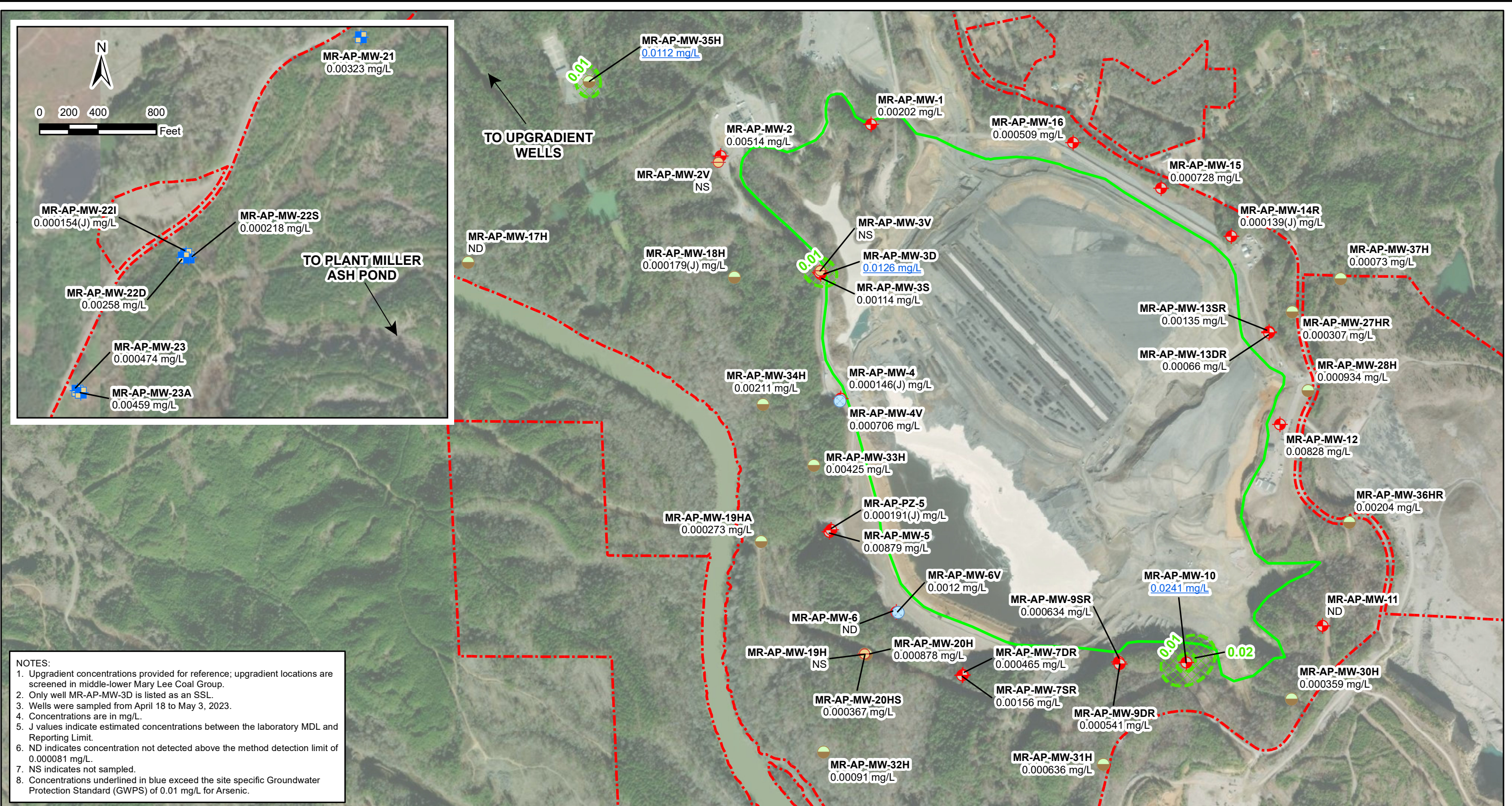
MR-AP-MW-23 Well ID
341.87 Groundwater Elevation



NOTE: 1. ft NAVD88 indicates feet above North American Vertical Datum of 1988.

SCALE	1:12000
DATE	8/1/2023
DRAWN BY	KAR
CHECKED BY	GBD

DRAWING TITLE	
POTENTIOMETRIC SURFACE CONTOUR MAP	
APRIL 18, 2023	
UPGRADIENT MONITORING WELLS - SHALLOW	
PLANT MILLER ASH POND	
FIGURE NO	FIGURE 6G
	



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 MDL and Reporting Limit.
6. ND indicates concentration not detected above the method detection limit of 0.000081 mg/L.
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 Monitoring Well
	Upgradient Monitoring 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
<u>0.00202</u>	Arsenic Concentration (mg/L)

SCALE 1:12000

DATE 7/31/2023

DRAWN BY KWR

CHECKED BY GBD

DRAWING TITLE

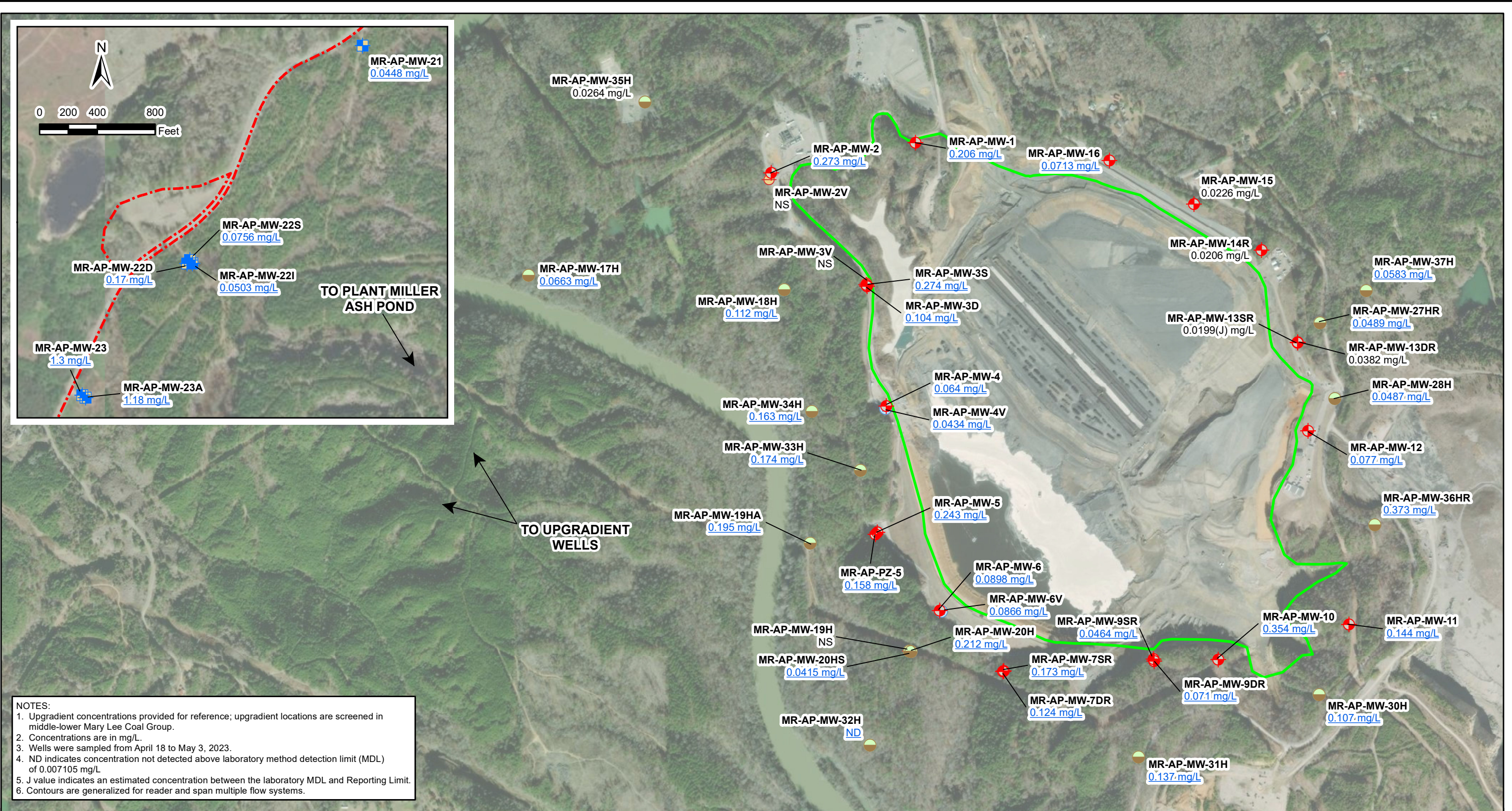
ARSENIC ISOCONCENTRATION MAP
APRIL TO MAY 2023
PLANT MILLER ASH POND

FIGURE NO

FIGURE 7

FIGURE NO

FIGURE 7



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 April 18 to May 3, 2023.
 4. ND indicates concentration not detected above laboratory method detection limit (MDL) of 0.007105 mg/L.
 5. J value indicates an estimated concentration between the laboratory MDL and Reporting Limit.
 6. Contours are generalized for reader and span multiple flow systems.

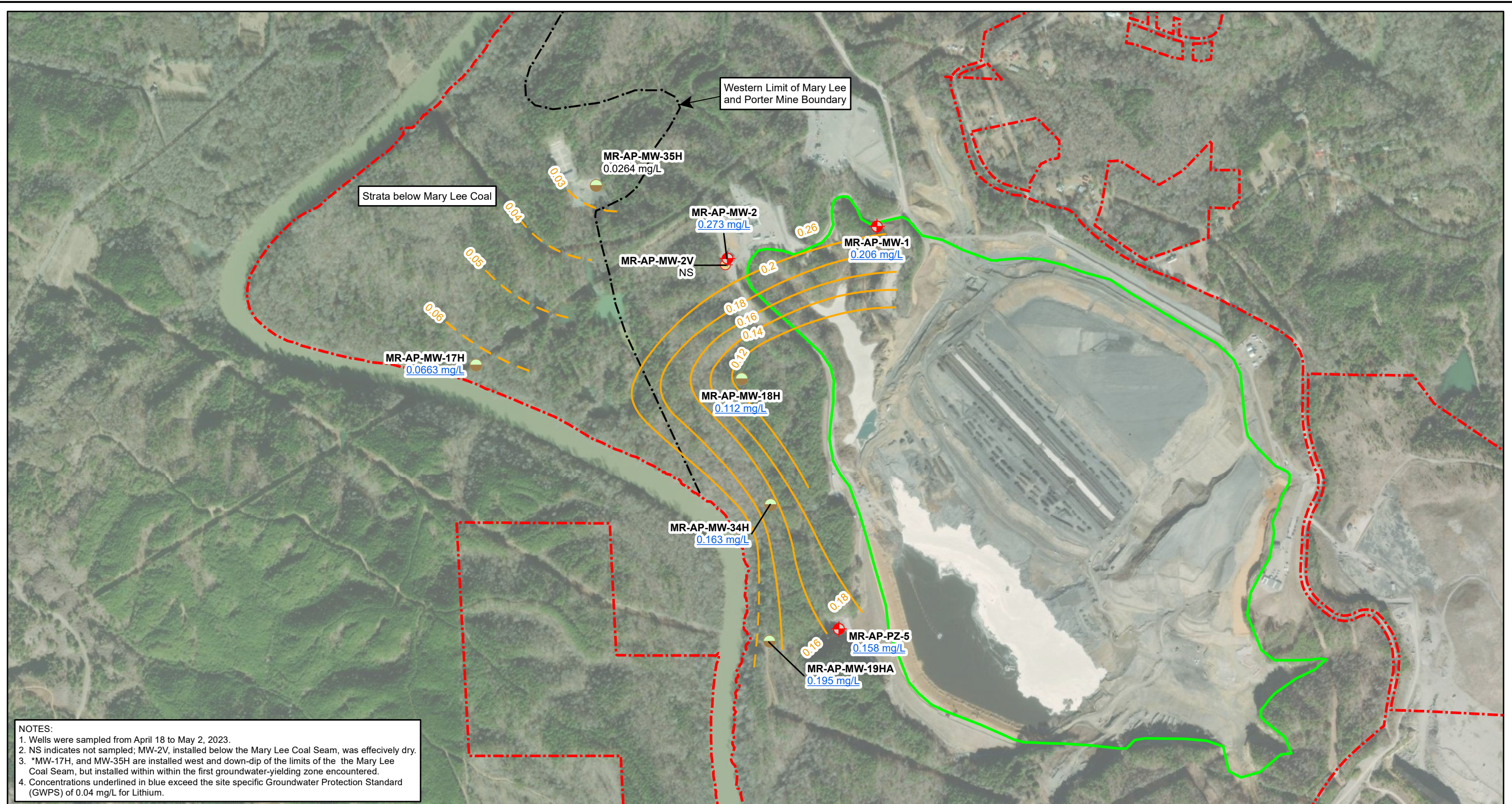
Legend

	Downgradient Monitoring Well		Ash Pond Boundary
	Horizontal Delineation Well		
	Vertical Delineation Well		
	Piezometer		

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



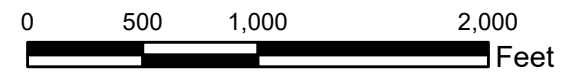
SCALE	1:12500	DRAWING TITLE
DATE	7/31/2023	
DRAWN BY	KWR	LITHIUM ISOCONCENTRATION MAP APRIL TO MAY 2023 PLANT MILLER ASH POND
CHECKED BY	GBD	
FIGURE NO		FIGURE 8A



NOTES:
 1. Wells were sampled from April 18 to May 2, 2023.
 2. NS indicates not sampled; MW-2V, installed below the Mary Lee Coal Seam, was effectively dry.
 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.

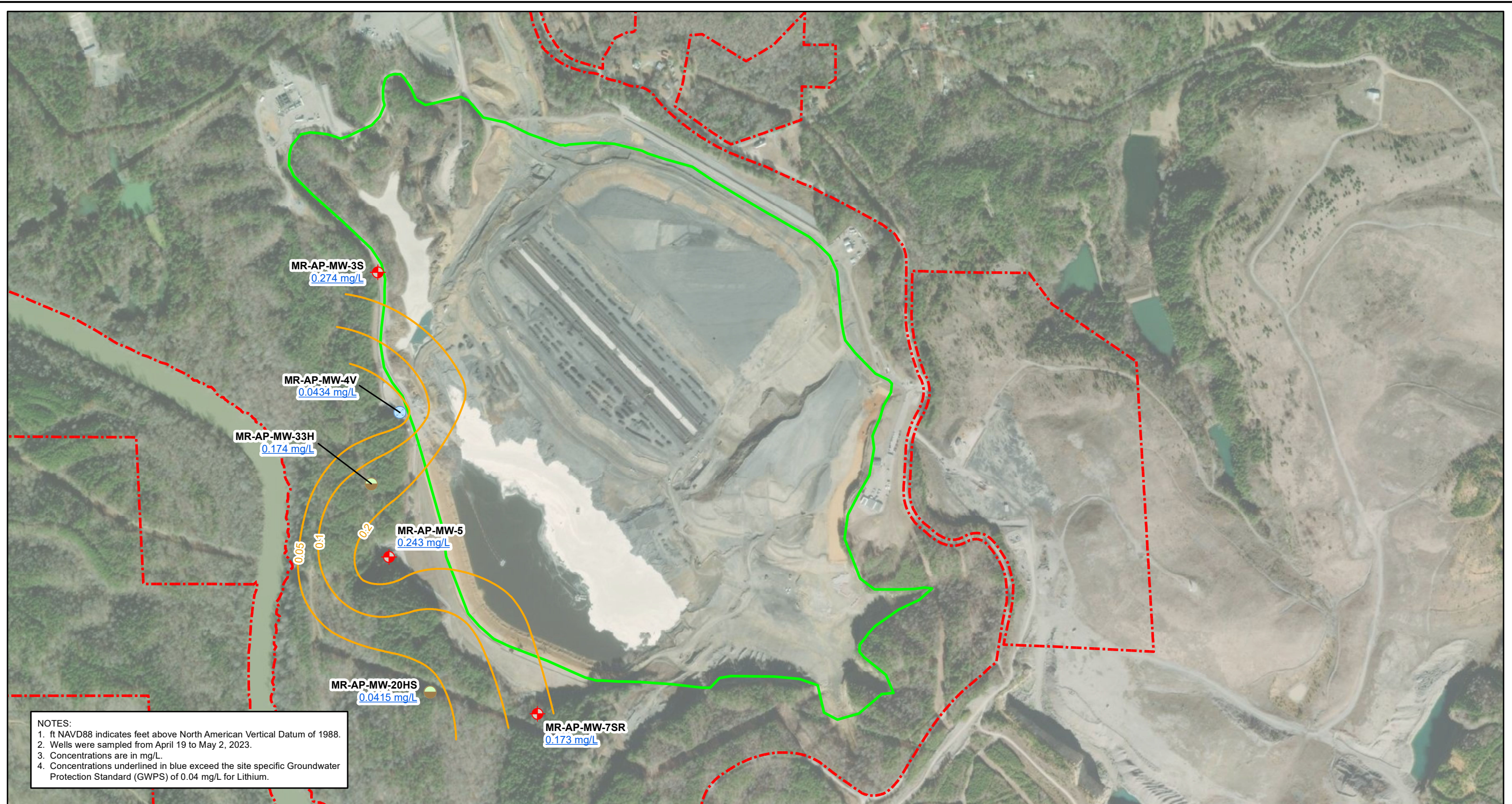
Legend	
	Downgradient Monitoring Well
	Horizontal Delineation Well
	Piezometer
	Lithium Isoconcentration Contour (mg/L)
	Inferred Lithium Isoconcentration Contour (mg/L)
	Western Limit of Mary Lee and Porter Mine Boundary
	Ash Pond Boundary
	Property Boundary (Approximate)

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



SCALE	1:10000
DATE	7/31/2023
DRAWN BY	KWR
CHECKED BY	GBD

DRAWING TITLE	
LITHIUM ISOCONCENTRATION MAP	
MARY LEE AQUIFER	
APRIL TO MAY 2023	
PLANT MILLER ASH POND	
FIGURE NO	FIGURE 8B

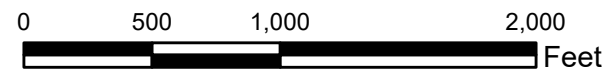


NOTES:
 1. ft NAVD88 indicates feet above North American Vertical Datum of 1988.
 2. Wells were sampled from April 19 to May 2, 2023.
 3. Concentrations are in mg/L.
 4. Concentrations underlined in blue exceed the site specific Groundwater Protection Standard (GWPS) of 0.04 mg/L for Lithium.

Legend

- Downgradient Monitoring Well
- Horizontal Delineation Well
- Vertical Delineation Well
- Lithium Contour (mg/L)
- Ash Pond Boundary
- Property Boundary (Approximate)

MR-AP-MW-4V Well ID
 0.0434 Lithium Concentration (mg/L)



SCALE 1:9000

DATE 8/1/2023

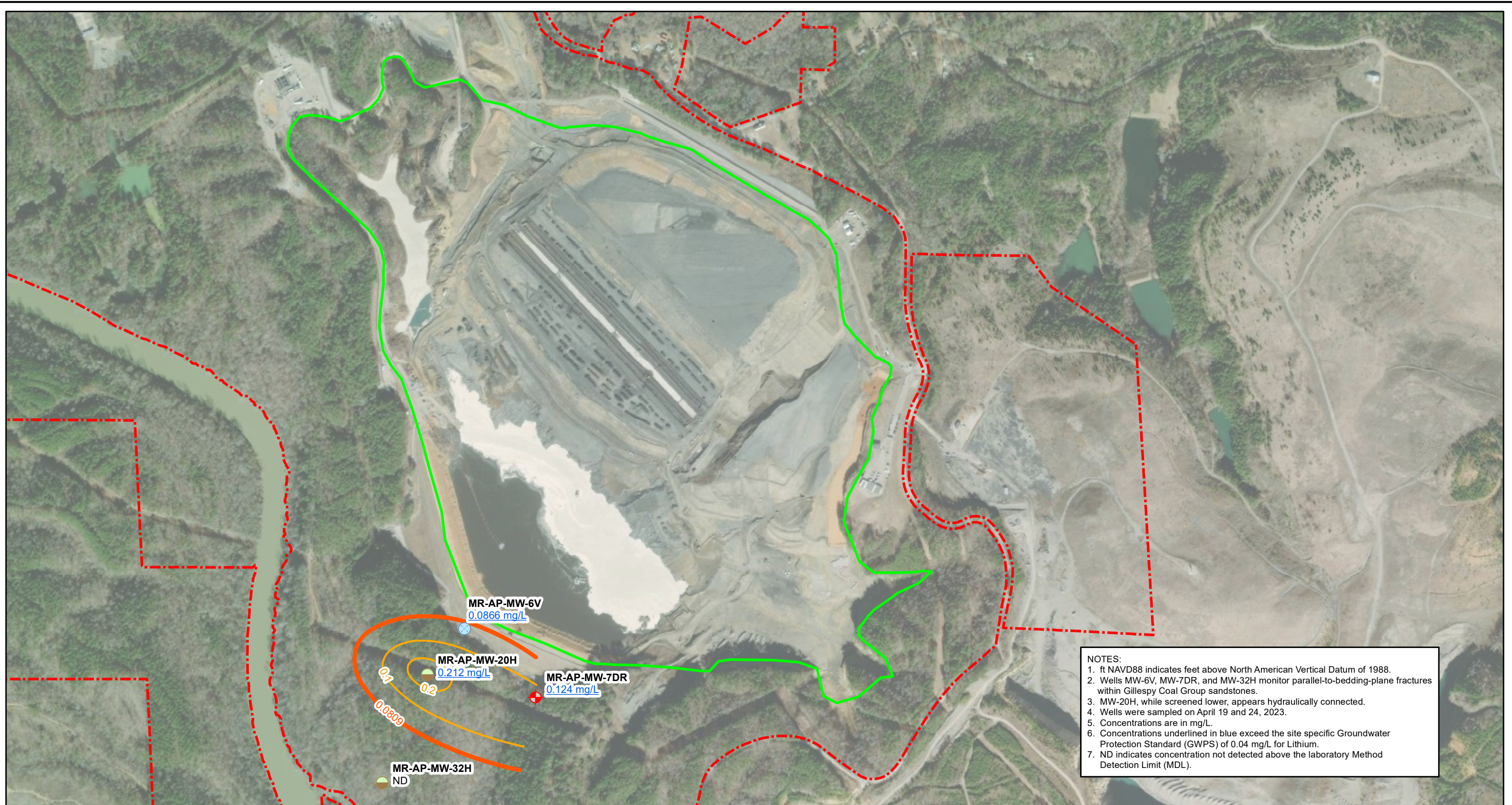
DRAWN BY KWR

CHECKED BY GBD

DRAWING TITLE
**LITHIUM ISOCONCENTRATION MAP
 GILLESPIY LOWER DISCRETE FLOW ZONE
 APRIL TO MAY 2023
 PLANT MILLER ASH POND**

FIGURE NO
FIGURE 8C



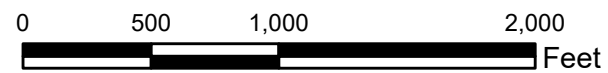


NOTES:

1. ft NAVD88 indicates feet above North American Vertical Datum of 1988.
2. Wells MW-6V, MW-7DR, and MW-32H monitor parallel-to-bedding-plane fractures within Gillespy Coal Group sandstones.
3. MW-20H, while screened lower, appears hydraulically connected.
4. Wells were sampled on April 19 and 24, 2023.
5. Concentrations are in mg/L.
6. Concentrations underlined in blue exceed the site specific Groundwater Protection Standard (GWPS) of 0.04 mg/L for Lithium.
7. ND indicates concentration not detected above the laboratory Method Detection Limit (MDL).

Legend

- Downgradient Monitoring Well
- Horizontal Delineation Well
- Vertical Delineation Well
- Lithium GWPS Background Contour (0.0809 mg/L)
- Lithium Contour (mg/L)
- Ash Pond Boundary
- Property Boundary (Approximate)



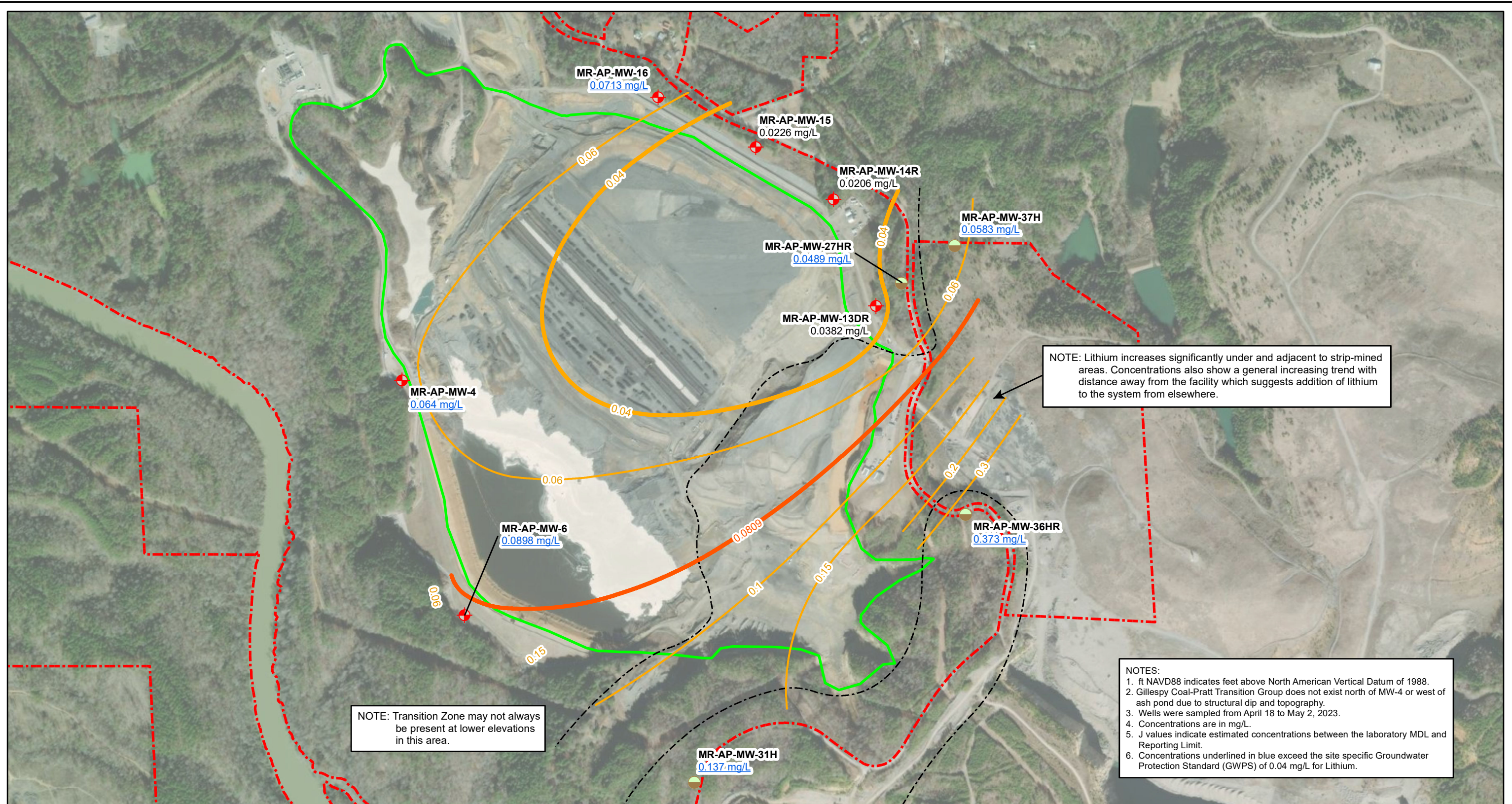
MR-AP-MW-6V Well ID
0.0866 Lithium Concentration (mg/L)

SCALE	1:9000
DATE	8/1/2023
DRAWN BY	KWR
CHECKED BY	GBD

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

FIGURE NO
FIGURE 8D

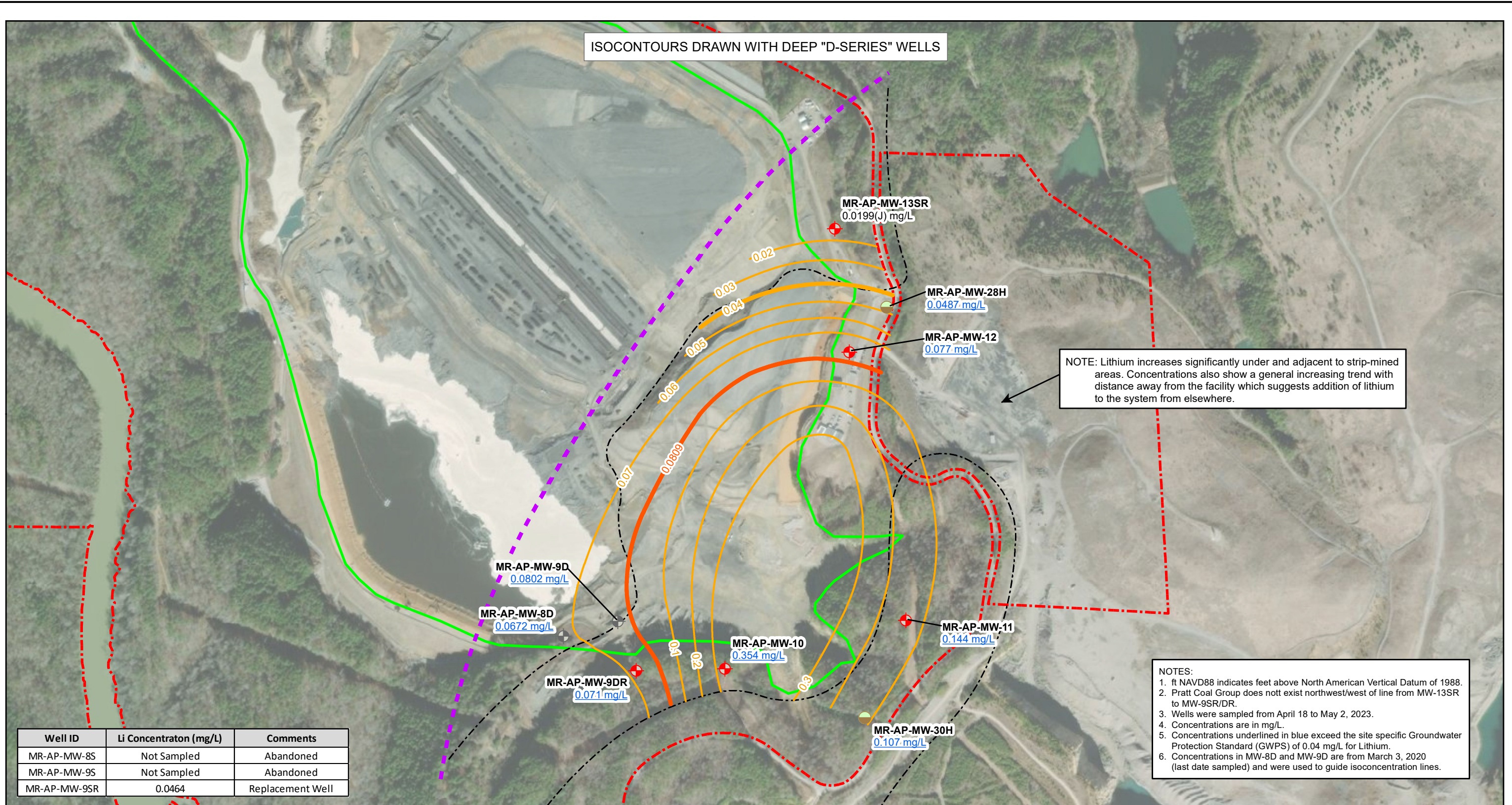




- NOTES:
1. ft NAVD88 indicates feet above North American Vertical Datum of 1988.
 2. Gillespy Coal-Pratt Transition Group does not exist north of MW-4 or west of ash pond due to structural dip and topography.
 3. Wells were sampled from April 18 to May 2, 2023.
 4. Concentrations are in mg/L.
 5. J values indicate estimated concentrations between the laboratory MDL and Reporting Limit.
 6. Concentrations underlined in blue exceed the site specific Groundwater Protection Standard (GWPS) of 0.04 mg/L for Lithium.

Legend Downgradient Monitoring Well Horizontal Delineation Well Lithium GWPS Background Contour (0.0809 mg/L) MR-AP-MW-4 Well ID 0.064 Lithium Concentration (mg/L)	Lithium GWPS (RSL) Contour (0.04 mg/L) Lithium Contour (mg/L) Extent of Strip Mining Ash Pond Boundary Property Boundary (Approximate)	SCALE	1:9000	DRAWING TITLE	LITHIUM ISOCONCENTRATION MAP GILLESPIY COAL - PRATT TRANSITION ZONE APRIL TO MAY 2023 PLANT MILLER ASH POND
		DATE	8/1/2023		
		DRAWN BY	KWR	Southern Company	
		CHECKED BY	GBD		

ISOCONTOURS DRAWN WITH DEEP "D-SERIES" WELLS



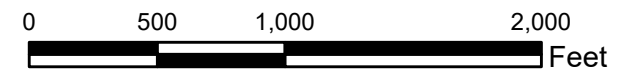
NOTE: Lithium increases significantly under and adjacent to strip-mined areas. Concentrations also show a general increasing trend with distance away from the facility which suggests addition of lithium to the system from elsewhere.

- NOTES:
1. ft NAVD88 indicates feet above North American Vertical Datum of 1988.
 2. Pratt Coal Group does not exist northwest/west of line from MW-13SR to MW-9SR/DR.
 3. Wells were sampled from April 18 to May 2, 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. Concentrations in MW-8D and MW-9D are from March 3, 2020 (last date sampled) and were used to guide isoconcentration lines.

Well ID	Li Concentration (mg/L)	Comments
MR-AP-MW-8S	Not Sampled	Abandoned
MR-AP-MW-9S	Not Sampled	Abandoned
MR-AP-MW-9SR	0.0464	Replacement Well

Legend

- Downgradient Monitoring Well
- Horizontal Delineation Well
- Abandoned
- Lithium GWPS Background Contour (0.0809 mg/L)
- Lithium GWPS (RSL) Contour (0.04 mg/L)
- Lithium Contour (mg/L)
- Extent of Strip Mining
- Pre-mining limit of Pratt Coal Group
- Ash Pond Boundary
- Property Boundary (Approximate)

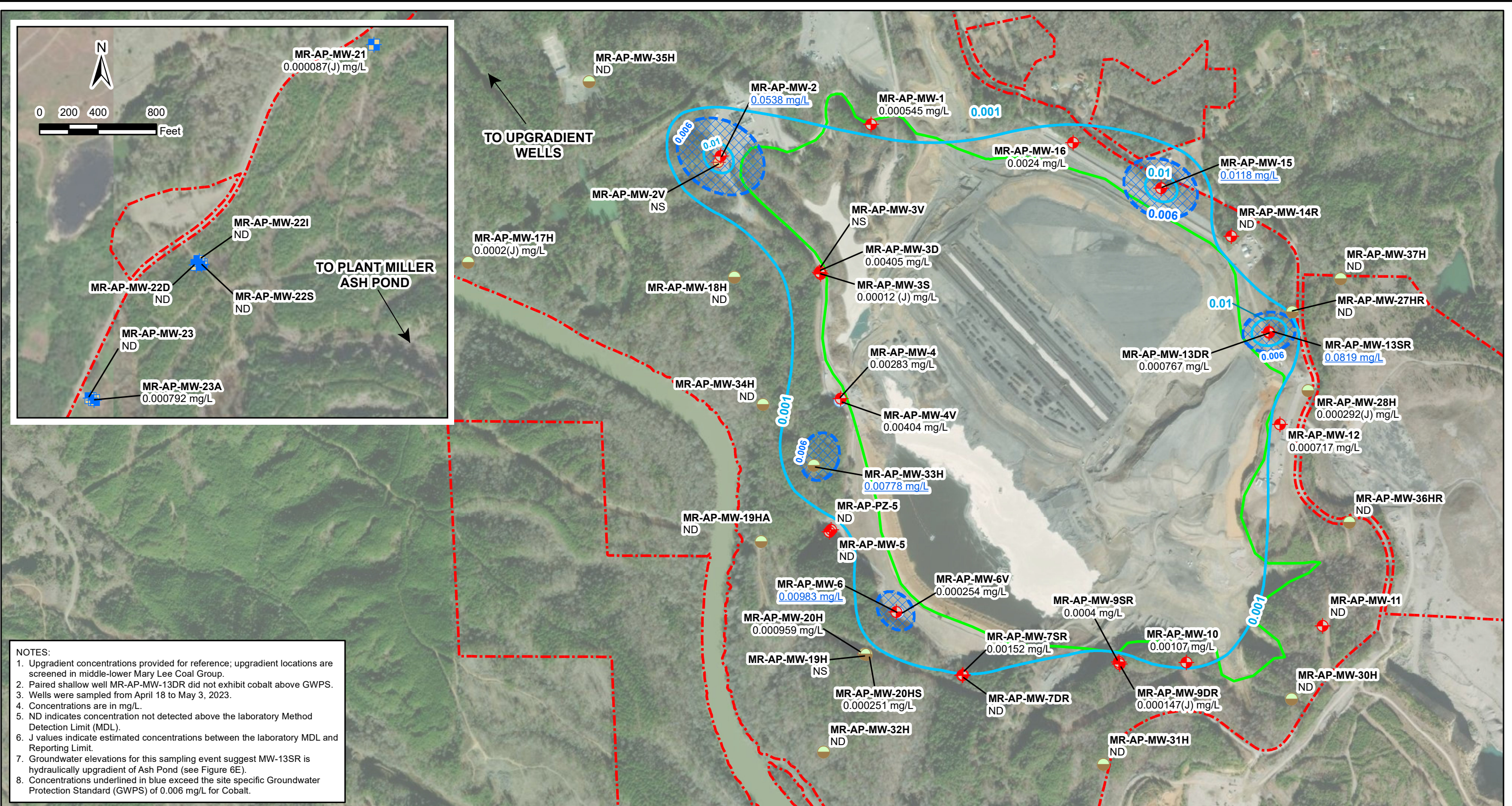


SCALE	1:9000
DATE	8/1/2023
DRAWN BY	KAR
CHECKED BY	GBD

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

FIGURE NO
FIGURE 8F

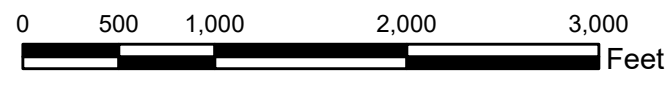
MR-AP-MW-10 Well ID
 0.354 Lithium Concentration (mg/L)



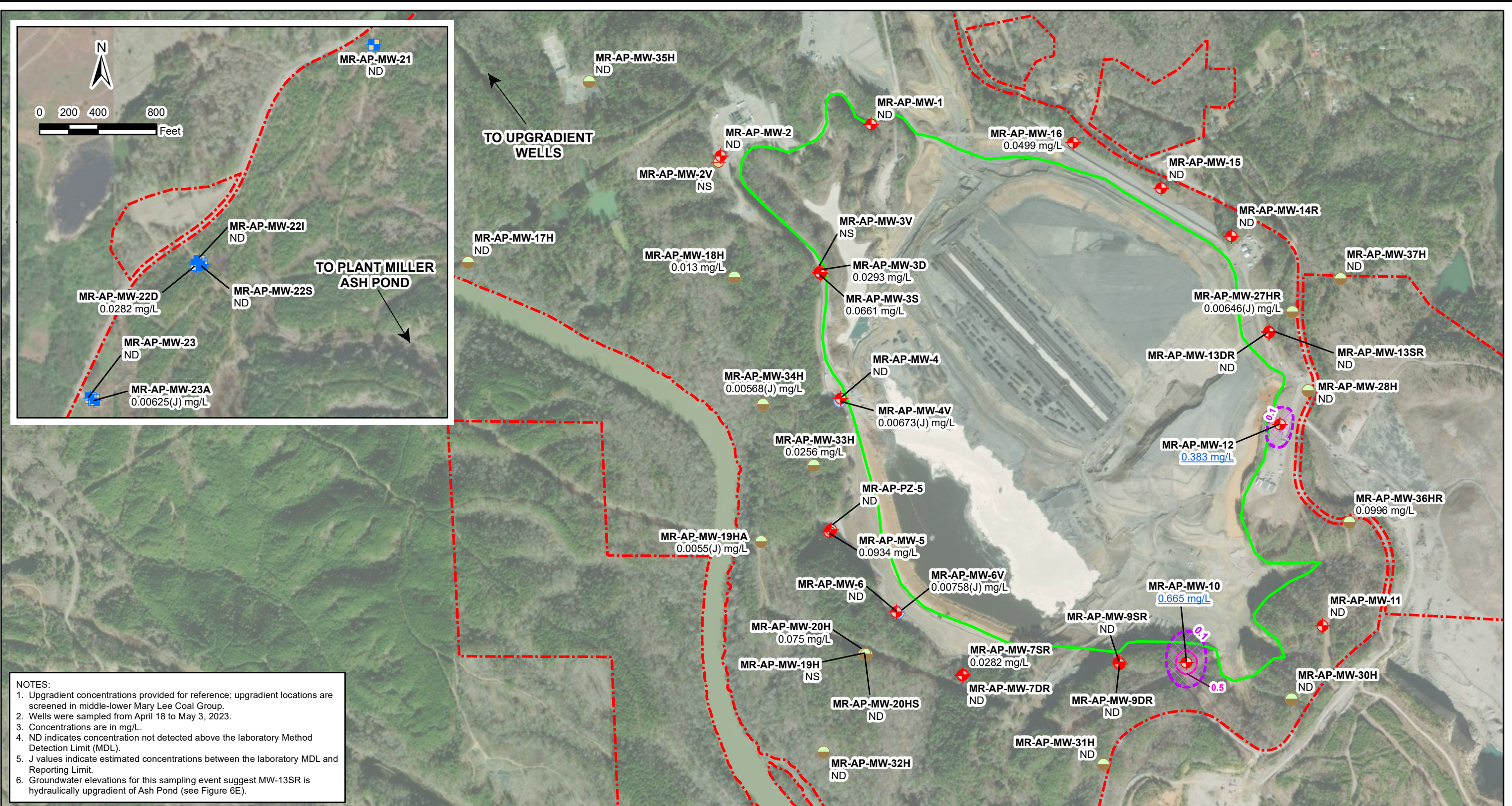
NOTES:

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. Groundwater elevations for this sampling event suggest 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.

Legend		
	MR-AP-MW-4 Well ID	
	0.00283 Cobalt Concentration (mg/L)	



SCALE	1:12000	DRAWING TITLE
DATE	8/1/2023	
DRAWN BY	KAR	COBALT ISOCONCENTRATION MAP APRIL TO MAY 2023 PLANT MILLER ASH POND
CHECKED BY	GBD	
FIGURE NO		
FIGURE 9		



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.
6. Groundwater elevations for this sampling event suggest MW-13SR is hydraulically upgradient of Ash Pond (see Figure 6E).

Legend Downgradient Monitoring Well Upgradient Monitoring 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)		SCALE 1:12000 DATE 8/1/2023 DRAWN BY KAR CHECKED BY GBD	DRAWING TITLE MOLYBDENUM ISOCONCENTRATION MAP APRIL TO MAY 2023 PLANT MILLER ASH POND FIGURE NO FIGURE 10	Southern Company
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Appendix A



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-21								
		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
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
Calcium	mg/L	60.1	63.5	52.4	51.7	55.5	56.7	54.6	63.8	58
Chloride	mg/L	9.18	9.75	14.6	14.4	14.4	6.93	11.1	10	21
Fluoride	mg/L	0.169	0.212	0.285	0.283	0.217	0.2	0.127	0.158	0.223
pH_Field	SU	7.26	7.42	7.7	7.68	7.73	7.83	7.72	7.36	7.65
Sulfate	mg/L	116	108	111	135	136	141	137	134	141
TDS	mg/L	397	446	496	534	--	--	--	--	--
Appendix IV										
Antimony	mg/L	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071
Arsenic	mg/L	0.00106 J	0.00129 J	0.00472 J	0.00366 J	0.00292	0.000996	0.00137	0.00117	0.00323
Barium	mg/L	0.0629	0.314	0.469	0.381	0.25	0.148	0.142	0.133	0.189
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<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
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
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
Combined Radium	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
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
Lithium	mg/L	0.0484	0.0493	0.0252	0.0379	0.045	0.0657	0.054	0.0548	0.0448
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.00411 J	0.00208 J	<0.002	<0.002	0.00251	0.000976	0.0005	0.000416	<0.005075

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GS-AP-MW-8								
		08/03/2016	09/21/2016	10/25/2016	12/13/2016	02/06/2017	03/28/2017	04/24/2017	06/07/2017	08/21/2017
Appendix III										
Boron	mg/L	0.0239 J	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Calcium	mg/L	6.85	11.7	10.8	5.86	9.76	5.28	6.89	3.58	3.38
Chloride	mg/L	3.21	2.95	3.03	3.21	3	3.3	3.8	3.5	3.6
Fluoride	mg/L	0.125 J	0.098 J	0.025 J	0.045 J	0.1	0.08 J	0.09 J	0.08 J	0.08 J
pH_Field	SU	5.84	5.99	5.94	5.84	5.9	5.67	5.79	5.71	5.7
Sulfate	mg/L	4.2	4.27	2.78	3.18	3.74	3.4 J	2.7 J	2.7 J	3.9 J
TDS	mg/L	113	128	121	101	108	91	89.3	84	91.3
Appendix IV										
Antimony	mg/L	<0.0006	<0.0006	<0.0006	0.00067 J	<0.0006	<0.0006	<0.0006	<0.0006	--
Arsenic	mg/L	0.00214 J	0.00112 J	<0.001	<0.001	0.00111 J	0.00109 J	<0.001	<0.001	--
Barium	mg/L	0.0274	0.0811	0.0576	0.0241	0.0747	0.0183	0.04	0.00769 J	--
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--
Chromium	mg/L	<0.002	0.00266 J	<0.002	<0.002	<0.002	0.00322 J	<0.002	0.00227 J	--
Cobalt	mg/L	0.0026 J	0.00362 J	0.00305 J	<0.002	0.00308 J	<0.002	<0.002	<0.002	--
Combined Radium	pCi/L	0.299 U	0.835	0.0629 U	0.547	0.251 U	-0.109 U	0.293 U	0.529	--
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--
Mercury	mg/L	<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	--

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GS-AP-MW-8								
		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	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	--	4.25	3.21	4.43	7.24	4.51	5.19	4.35	4.47
Chloride	mg/L	--	3.3	3.3	3.69	3.21	4.35	3.22	3.85	4.04
Fluoride	mg/L	0.08 J	0.1	0.09 J	0.143	0.128	0.108	0.125	0.114	0.0924 J
pH_Field	SU	5.78	5.84	5.75	5.76	5.27	5.81	5.75	5.69	5.02
Sulfate	mg/L	--	2.5 J	2.4 J	4.53	6.61	4.86	4.69	4.83	3.77
TDS	mg/L	--	94.7	76.7	92	109	90.7	94	--	--
Appendix IV										
Antimony	mg/L	<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	0.000228	0.00039
Barium	mg/L	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	<0.000406	<0.000406
Cadmium	mg/L	<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	0.000389 J	0.000579 J
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	0.00234 J	<0.002	<0.002	0.000384	0.000586
Combined Radium	pCi/L	0.497	-0.601 U	0.2 U	0.733	0.753	0.465 U	1.25	0.223 U	0.77 U
Lead	mg/L	<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	0.00796 J	0.00832 J
Mercury	mg/L	<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	<6.8e-005	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GS-AP-MW-8			MR-AP-MW-22S					
		02/16/2022	08/02/2022	03/27/2023	10/14/2020	04/20/2021	06/16/2021	09/15/2021	03/16/2022	09/21/2022
Appendix III										
Boron	mg/L	<0.03	<0.03	<0.03	0.134	0.0628 J	0.0677 J	0.062 J	0.0672 J	0.0663 J
Calcium	mg/L	4.42	5.28	4.77	46.6	79	97.6	97.9	97.5	127
Chloride	mg/L	4.42	4.35	4.17	163	91.2	128	112	127	127
Fluoride	mg/L	0.0616 J	0.0815 J	0.112 J	0.337	0.158	0.231	0.208	0.151	0.124 J
pH_Field	SU	5.8	5.78	5.82	6.84	6.36	6.69	6.88	6.92	6.78
Sulfate	mg/L	4.68	4.18	4.41	184	145	147	146	174	169
TDS	mg/L	--	--	--	730	--	--	--	--	--
Appendix IV										
Antimony	mg/L	<0.000508	<0.000508	<0.00071	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508
Arsenic	mg/L	0.000278	0.00016 J	0.000162 J	0.00129 J	0.000373	0.000684	0.000381	0.000325	0.000564
Barium	mg/L	0.00763	0.0116	0.00644	0.122	0.0638	0.074	0.0635	0.053	0.0517
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.0006	<0.000406	<0.000406	<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
Chromium	mg/L	0.000396 J	0.000629 J	0.000761 J	<0.002	<0.000203	0.000281 J	0.00021 J	0.000235 J	0.000228 J
Cobalt	mg/L	0.000548	0.00124	0.000254	<0.002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Combined Radium	pCi/L	0.561 U	0.154 U	0.142 U	0.484	0.41 U	0.73 U	0.662 U	0.26 U	1.48
Lead	mg/L	<6.8e-005	8.33e-005 J	<6.8e-005	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.00826 J	0.01 J	0.00968 J	0.172	0.0694	0.0722	0.071	0.0631	0.0648
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.000118 J	<0.000102	<0.005075	<0.002	0.000515	0.00089	0.0004	0.000324	0.000304

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-	MR-AP-MW-22I						MR-AP-MW-	
		05/03/2023	10/20/2020	04/20/2021	06/16/2021	09/15/2021	03/16/2022	09/21/2022	05/03/2023	10/26/2020
Appendix III										
Boron	mg/L	0.0703 J	0.173	0.135	0.134	0.122	0.121	0.114	0.12	0.149
Calcium	mg/L	117	8.61	3.66	3.4	2.74	2.66	2.98	2.61	49.7
Chloride	mg/L	125	247	79.8	85.8	62.1	47.3	96.9	32.9	2140
Fluoride	mg/L	0.152	0.311	0.246	0.283	0.28	0.222	0.185	0.227	0.142
pH_Field	SU	6.83	7.68	7.81	7.7	8.06	7.94	8.09	8.35	7.78
Sulfate	mg/L	178	36.4	31.4	17.1	18.4	24.8	23	21	7.91
TDS	mg/L	--	780	--	--	--	--	--	--	4010
Appendix IV										
Antimony	mg/L	<0.00071	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.00071	<0.0008
Arsenic	mg/L	0.000292	0.00319 J	0.00111	0.000552	0.000474	0.000259	0.000184 J	0.000154 J	0.00188 J
Barium	mg/L	0.0472	0.198	0.0624	0.0602	0.0489	0.0367	0.0502	0.036	4.33
Beryllium	mg/L	<0.000406	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006
Cadmium	mg/L	<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
Chromium	mg/L	0.00025 J	<0.002	<0.000203	0.00022 J	0.000268 J	0.0003 J	0.000233 J	0.000244 J	<0.002
Cobalt	mg/L	<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
Combined Radium	pCi/L	0.643 U	0.679	0.304 U	0.362 U	0.716 U	1.01 U	1.13	0.833 U	2.3
Lead	mg/L	<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
Lithium	mg/L	0.0756	0.141	0.0728	0.0738	0.0621	0.0469	0.0542	0.0503	0.344
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.005075	0.00251 J	0.00172	0.000887	0.00102	0.00135	0.00098	<0.005075	0.00248 J

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-22D						MR-AP-MW-23		
		04/27/2021	06/16/2021	09/14/2021	03/17/2022	09/21/2022	05/03/2023	03/09/2020	04/09/2020	10/14/2020
Appendix III										
Boron	mg/L	0.17	0.171	0.153	0.153	0.157	0.118	0.756	0.799	0.762
Calcium	mg/L	58.1	64.5	64.2	71.2	66.9	30.6	128	119	123
Chloride	mg/L	2190	2390	2650	2660	2780	523	2430	2440	2440
Fluoride	mg/L	0.205	0.255	0.156	0.116 J	0.142	0.334	0.419	0.389	0.422
pH_Field	SU	7.88	7.87	8.29	7.96	7.82	8.76	7.6	7.65	7.66
Sulfate	mg/L	56.7	56.8	30.9	66.2	128	277	0.908 J	2.01	1.1
TDS	mg/L	--	--	--	--	--	--	4720	4670	4840
Appendix IV										
Antimony	mg/L	<0.000507	<0.000508	0.000716 J	0.00114	<0.000508	0.000764 J	<0.0008	0.00141 J	<0.0008
Arsenic	mg/L	0.00645	0.0047	0.00273	0.00354	0.00445	0.00258	<0.001	<0.001	<0.001
Barium	mg/L	2.59	2.96	4.49	2.95	1.14	0.183	11	11.6	12.4
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003
Chromium	mg/L	0.000308 J	0.000678 J	0.000745 J	0.000659 J	0.000328 J	0.000377 J	<0.002	<0.002	<0.002
Cobalt	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.002	<0.002	<0.002
Combined Radium	pCi/L	1.97	2.99	2.3	1.17	2.06	0.095 U	4.4	--	4.78
Lead	mg/L	<6.8e-005	7.08e-005 J	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001
Lithium	mg/L	0.406	0.342	0.46	0.369	0.373	0.17	1.18	1.05	1.2
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.009	0.0127	0.00811	0.00897	0.0163	0.0282	0.005 J	0.00449 J	0.00351 J

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-23					GS-AP-MW-17V			
		05/05/2021	09/15/2021	03/15/2022	09/14/2022	05/01/2023	02/20/2019	09/24/2019	03/25/2020	09/23/2020
Appendix III										
Boron	mg/L	0.765	0.736	0.709	0.714	0.726	0.0337 J	0.0532 J	0.0482 J	0.0478 J
Calcium	mg/L	134	128	117	147	143	30.6	29.7	31.1	29.3
Chloride	mg/L	2670	2940	2450	2800	2600	3.56	3.69	3.72	3.74
Fluoride	mg/L	0.409	0.433	0.403	0.41	0.371	0.239	0.245	0.243	0.278
pH_Field	SU	7.7	7.78	7.61	7.59	7.59	8.03	7.65	7.63	7.53
Sulfate	mg/L	1.38	7.45	0.862 J	<0.6	3.55	15.2	11.8	9.69	11.1
TDS	mg/L	--	--	--	--	--	346	365	364	368
Appendix IV										
Antimony	mg/L	<0.000507	0.00056 J	0.000896 J	<0.000508	0.00113	0.00115 J	<0.0008	<0.0008	<0.0008
Arsenic	mg/L	0.000426	0.000525	0.000383	0.000219	0.000474	0.0011 J	0.00149 J	<0.001	<0.001
Barium	mg/L	11.9	12.2	11.7	12.4	12.8	0.191	0.208	0.314	0.299
Beryllium	mg/L	<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	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<0.0003
Chromium	mg/L	0.0011	0.000515 J	0.00039 J	<0.000203	0.000248 J	<0.002	0.00405 J	<0.002	<0.002
Cobalt	mg/L	0.000185 J	<6.8e-005	7.81e-005 J	<6.8e-005	8.77e-005 J	<0.002	<0.002	<0.002	<0.002
Combined Radium	pCi/L	6.25	7.07	6.96	6.2	7.55	0.398 U	0.373 U	0.0656 U	0.542 U
Lead	mg/L	0.00019 J	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.00189 J	<0.001	<0.001	<0.001
Lithium	mg/L	1.13	1.16	0.911	0.87	1.3	0.0671	0.0809	0.0646	0.0574
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.00321	0.00282	0.00221	0.000638	<0.005075	0.00577 J	0.00906 J	0.00508 J	0.00664 J

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GS-AP-MW-17V						MR-AP-MW-23A		
		02/02/2021	08/02/2021	02/14/2022	05/11/2022	08/09/2022	03/22/2023	10/14/2020	04/27/2021	06/16/2021
Appendix III										
Boron	mg/L	0.0396 J	0.0368 J	0.0386 J	--	0.0418 J	0.0379 J	0.706	0.694	0.697
Calcium	mg/L	31.8	33	30.1	--	31.4	29.6	118	125	138
Chloride	mg/L	3.49	3.12	3.26	--	3.09	2.8	2510	2510	2740
Fluoride	mg/L	0.244	0.276	0.237	--	0.245	0.198	0.429	0.363	0.412
pH_Field	SU	7.58	7.65	7.43	--	7.55	7.61	7.46	7.45	7.29
Sulfate	mg/L	8.81	10.2	9.09	--	8.13	10.6	5.51	27.9	26.1
TDS	mg/L	--	--	--	--	--	--	4620	--	--
Appendix IV										
Antimony	mg/L	<0.000507	<0.000508	<0.000508	--	<0.000508	<0.00071	<0.0008	0.000758 J	<0.000508
Arsenic	mg/L	0.000243	0.000135 J	0.000469	--	0.000807	0.000293	0.0014 J	0.00164	0.0019
Barium	mg/L	0.308	0.353	0.315	--	0.292	0.289	9.8	6.89	6.51
Beryllium	mg/L	<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	<6.8e-005	<0.0003	<6.8e-005	<6.8e-005
Chromium	mg/L	0.000313 J	0.000323 J	0.000205 J	--	0.000291 J	<0.000203	<0.002	<0.000203	0.00065 J
Cobalt	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	--	<6.8e-005	<6.8e-005	<0.002	0.000718	0.000678
Combined Radium	pCi/L	0.448 U	0.738 U	7.76	0.553 U	0.584 U	0.707 U	4.46	1.21	3.11
Lead	mg/L	<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	0.0585	0.056	0.0499	--	0.0555	0.0507	1.17	1.05	0.873
Mercury	mg/L	<0.0003	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.00252	0.00206	0.00276	--	0.00298	<0.005075	<0.002	0.00575	0.00481

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-23A				MR-AP-MW-1				
		09/15/2021	03/16/2022	09/14/2022	05/01/2023	07/25/2016	09/26/2016	11/02/2016	01/11/2017	02/13/2017
Appendix III										
Boron	mg/L	0.673	0.668	0.633	0.659	0.0978 J	0.0625 J	0.067 J	0.0588 J	0.0561 J
Calcium	mg/L	129	128	131	138	153	122	114	112	132
Chloride	mg/L	2640	2520	2570	2670	14.1	13.3	12.1	11.6	14
Fluoride	mg/L	0.436	0.394	0.393	0.412	0.134 J	0.061 J	0.024 J	<0.01	0.13
pH_Field	SU	7.53	7.48	7.43	7.4	7.52	8.96	8.51	8.5	8.63
Sulfate	mg/L	26.5	33.5	47	52.3	585	480	462	515	--
TDS	mg/L	--	--	--	--	1060	852	888	920	848
Appendix IV										
Antimony	mg/L	0.000571 J	0.00109	<0.000508	0.00148	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Arsenic	mg/L	0.00416	0.00449	0.00612	0.00459	0.0046 J	0.00317 J	0.00321 J	0.00286 J	0.0024 J
Barium	mg/L	6.53	6.68	5.09	6.16	0.0656	0.041	0.0578	0.0603	0.0946
Beryllium	mg/L	<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	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chromium	mg/L	0.0004 J	0.000305 J	0.000589 J	0.000286 J	0.00711 J	0.0166	0.00481 J	0.00431 J	0.0061 J
Cobalt	mg/L	0.000421	0.00294	0.000482	0.000792	<0.002	<0.002	<0.002	<0.002	<0.002
Combined Radium	pCi/L	2.48	1 U	0.517 U	1.37	--	0.499	0.637 U	0.475 U	0.0464 U
Lead	mg/L	<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	1.04	0.815	0.774	1.18	0.187	0.134	0.137	0.137	0.187
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	0.00349	0.00535	0.00478	0.00625 J	0.0108	0.0105	0.0107	0.0101	0.00994 J

Notes:

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2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-1								
		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
Appendix III										
Boron	mg/L	--	0.0631 J	0.0636 J	0.0603 J	0.0559 J	--	0.0437 J	0.0559 J	<0.0609
Calcium	mg/L	--	168	104	122	98.6	--	141	94.1	47.9
Chloride	mg/L	--	11	13	13	13	--	11	12	15
Fluoride	mg/L	--	0.15	0.14	0.15	0.17	0.15	0.17	0.19	0.143
pH_Field	SU	8.67	7.63	8.67	8.39	8.78	8.84	8.49	9.04	11.01
Sulfate	mg/L	470	560	410	450	430	--	460	420	309
TDS	mg/L	--	1000	870	910	824	--	1020	830	694
Appendix IV										
Antimony	mg/L	--	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008
Arsenic	mg/L	--	0.00232 J	0.00183 J	0.00151 J	--	0.00284 J	0.00109 J	0.00174 J	0.00229 J
Barium	mg/L	--	0.0996	0.0753	0.0821	--	0.0814	0.116	0.0933	0.0672
Beryllium	mg/L	--	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	--	<0.0002	<0.0002	<0.0002	--	0.000372 J	<0.0003	<0.0003	<0.0003
Chromium	mg/L	--	0.00215 J	0.0123	0.00558 J	--	0.00287 J	<0.002	0.00248 J	<0.002
Cobalt	mg/L	--	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002
Combined Radium	pCi/L	--	0.335 U	0.409 U	0.261 U	--	0.693	0.413 U	0.338 U	0.312 U
Lead	mg/L	--	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	--	0.225	0.15	0.165	--	0.124	0.166	0.136	0.104
Mercury	mg/L	--	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003
Molybdenum	mg/L	--	0.00788 J	0.00866 J	0.00779 J	--	0.0109	0.00618 J	0.00745 J	0.00932 J

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
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5. 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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ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-1								MR-AP-MW-2
		08/27/2019	03/09/2020	10/19/2020	04/20/2021	09/08/2021	03/15/2022	09/19/2022	05/02/2023	07/25/2016
Appendix III										
Boron	mg/L	0.0869 J	0.0747 J	0.0512 J	0.0653 J	0.0505 J	0.0528 J	0.0597 J	0.0572 J	0.0922 J
Calcium	mg/L	165	126	32.6	36.2	78.8	98.1	182	130	209
Chloride	mg/L	8.75	19.6	16	12.9	10.8	10.4	9.01	9.27	5.13
Fluoride	mg/L	0.159	0.179	0.16	0.165	0.188	0.142	0.164	0.181	0.094 J
pH_Field	SU	7.48	11.95	11.44	9.55	9.19	8.71	8.09	8.6	6.03
Sulfate	mg/L	639	341	233	305	472	512	548	445	1340
TDS	mg/L	1120	815	530	--	--	--	--	--	2040
Appendix IV										
Antimony	mg/L	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	0.0255	<0.0006
Arsenic	mg/L	0.00211 J	0.0058	0.00351 J	0.00225	0.00219	0.0021	0.00247	0.00202	0.00267 J
Barium	mg/L	0.0555	0.0285	0.0295	0.0454	0.101	0.12	0.199	0.148	0.0266
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002
Chromium	mg/L	0.00336 J	0.0105	0.00527 J	0.00235	0.00143	0.00199	0.00148	0.0042	<0.002
Cobalt	mg/L	<0.002	<0.002	<0.002	0.000113 J	7.8e-005 J	0.000381	0.00108	0.000545	0.103
Combined Radium	pCi/L	0.696	0.726	0.335 U	0.44 U	0.396 U	0.754 U	0.933 U	1.38	0.817
Lead	mg/L	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001
Lithium	mg/L	0.264	0.123	0.09	0.154	0.179	0.156	0.204	0.206	0.163
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025
Molybdenum	mg/L	0.00563 J	0.0142	0.0116	0.0072	0.00649	0.00568	0.00547	<0.005075	<0.002

Notes:

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3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-2								
		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
Appendix III										
Boron	mg/L	0.126	0.0959 J	0.0976 J	0.147	0.121	0.167	0.159	0.148	--
Calcium	mg/L	240	213	218	244	234	241	241	235	--
Chloride	mg/L	4	4.99	6.72	7.4	8.3	6.6	6	8.3	--
Fluoride	mg/L	0.035 J	<0.01	<0.01	0.05 J	0.07 J	0.07 J	0.06 J	0.12	0.1
pH_Field	SU	5.96	6.02	6.11	6.16	6.1	6.12	6.11	6.16	6.17
Sulfate	mg/L	1680	1430	1550	1500	1700	1500	1700	1400	--
TDS	mg/L	2420	2180	2320	2380	2360	2400	2520	2500	--
Appendix IV										
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006
Arsenic	mg/L	0.00163 J	0.00197 J	0.00168 J	0.00175 J	0.00148 J	0.00156 J	0.00154 J	--	0.0013 J
Barium	mg/L	0.0246	0.0186	0.0157	0.0183	0.016	0.0162	0.016	--	0.016
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006
Cadmium	mg/L	0.000219 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002
Cobalt	mg/L	0.108	0.0813	0.0669	0.084	0.0829	0.0815	0.077	--	0.0499
Combined Radium	pCi/L	0.336 U	0.00962 U	0.844	0.444 U	0.379 U	0.37 U	0.875	--	1.11
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001
Lithium	mg/L	0.197	0.172	0.19	0.292	0.292	0.25	0.237	--	0.222
Mercury	mg/L	<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

Notes:

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3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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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ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-2								
		05/09/2018	10/09/2018	05/01/2019	08/27/2019	03/03/2020	10/21/2020	04/26/2021	09/14/2021	03/16/2022
Appendix III										
Boron	mg/L	0.145	0.15	0.24	0.192	0.167	0.316	0.173	0.188	0.165
Calcium	mg/L	246	272	272	251	278	212	252	226	239
Chloride	mg/L	8.7	8	5.04	7.95	8.59	9.47	9.31	5.88	6.88
Fluoride	mg/L	0.13	0.1	0.108	0.19	0.262	0.236	0.406	0.24	0.268
pH_Field	SU	5.92	6.21	6.25	6.25	6.27	6.29	6.33	6.58	6.14
Sulfate	mg/L	1300	1500	1580	1570	1690	1360	1580	1690	1630
TDS	mg/L	2040	2460	2370	2470	2520	2190	--	--	--
Appendix IV										
Antimony	mg/L	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.00121 J	0.00156 J	0.0039 J	0.00194 J	0.00238 J	0.00346 J	0.00346	0.0043	0.00394
Barium	mg/L	0.0143	0.0136	0.0164	0.0177	0.0172	0.0185	0.0167	0.0197	0.0147
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<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
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.00021 J	0.000513 J	<0.000203
Cobalt	mg/L	0.0534	0.0525	0.0642	0.0498	0.0471	0.0368	0.0358	0.0515	0.0444
Combined Radium	pCi/L	0.301 U	1.04	0.29 U	0.615	0.361 U	0.448 U	0.378 U	0.96 U	0.589 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.237	0.25	0.228	0.257	0.269	0.217	0.268	0.27	0.211
Mercury	mg/L	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	0.00458 J	0.0018	0.0021	0.00207

Notes:

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3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
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5. 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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Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-2		MR-AP-MW-3S						
		09/26/2022	05/02/2023	07/19/2016	09/26/2016	10/31/2016	01/09/2017	02/13/2017	03/29/2017	04/03/2017
Appendix III										
Boron	mg/L	0.153	0.216	0.195	0.179	0.19	0.196	0.187	--	0.192
Calcium	mg/L	208	251	5.63	4.28	4.04	4.15	4.38	--	4.45
Chloride	mg/L	5.2	4.85	25	23.6	24.4	24.3	28	--	31
Fluoride	mg/L	0.211	0.321	0.217 J	0.192 J	0.157 J	0.115 J	0.27	--	0.25
pH_Field	SU	6.37	6.12	8.95	9.13	9.04	9.62	9.43	9.04	9.18
Sulfate	mg/L	1570	1570	237	105	94.9	131	--	160	180
TDS	mg/L	--	--	704	594	572	608	584	--	606
Appendix IV										
Antimony	mg/L	<0.000508	<0.00071	0.000787 J	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006
Arsenic	mg/L	0.00401	0.00514	0.00172 J	0.00246 J	0.00224 J	0.00251 J	0.00179 J	--	0.00128 J
Barium	mg/L	0.0164	0.0175	0.083	0.0616	0.073	0.0791	0.101	--	0.109
Beryllium	mg/L	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006
Cadmium	mg/L	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002
Chromium	mg/L	<0.000203	<0.000203	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002
Cobalt	mg/L	0.0522	0.0538	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002
Combined Radium	pCi/L	0.479 U	0.831 U	-0.019 U	0.488 U	0.147 U	0.288 U	0.226 U	--	-0.154 U
Lead	mg/L	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001
Lithium	mg/L	0.221	0.273	0.186	0.149	0.161	0.156	0.244	--	0.25
Mercury	mg/L	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025
Molybdenum	mg/L	0.00166	<0.005075	0.0307	0.0341	0.028	0.0303	0.0295	--	0.0261

Notes:

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3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
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ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-3S								
		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
Appendix III										
Boron	mg/L	0.178	0.181	0.188	--	0.183	0.202	0.183 J	0.209	0.217
Calcium	mg/L	4.23	4.14	3.88	--	3.79	3.78	16.8	9.68	9.94
Chloride	mg/L	31	32	30	--	34	32	242	145	177
Fluoride	mg/L	0.24	0.26	0.26	0.31	0.31	0.33	0.335	0.294	0.286
pH_Field	SU	9.11	9.54	9.69	9.76	9.44	9.34	9.17	9.23	9.4
Sulfate	mg/L	160	160	140	--	120	130	249	248	298
TDS	mg/L	608	644	592	--	606	536	930	837	953
Appendix IV										
Antimony	mg/L	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	0.00126 J	<0.0008	<0.0008
Arsenic	mg/L	0.00124 J	0.0018 J	--	0.00264 J	0.00262 J	0.00206 J	0.00275 J	0.00222 J	0.00199 J
Barium	mg/L	0.108	0.0919	--	0.118	0.133	0.121	0.447	0.395	0.347
Beryllium	mg/L	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Chromium	mg/L	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Combined Radium	pCi/L	0.303 U	0.645	--	0.627	-0.0676 U	0.571	0.678	1.17	0.821
Lead	mg/L	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	0.199	0.188	--	0.164	0.183	0.175	0.243	0.246	0.294
Mercury	mg/L	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	0.000318 J	<0.0003	<0.0003
Molybdenum	mg/L	0.0281	0.0298	--	0.037	0.0331	0.0377	0.068	0.0557	0.0648

Notes:

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ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-3S						MR-AP-MW-3D		
		10/13/2020	05/05/2021	09/07/2021	03/16/2022	09/19/2022	05/02/2023	07/19/2016	09/26/2016	10/31/2016
Appendix III										
Boron	mg/L	0.271	0.281	0.276	0.276	0.272	0.245	0.527	0.54	0.586
Calcium	mg/L	6.81	7.04	6.69	5.38	4.9	8.78	296	269	266
Chloride	mg/L	96.3	76.5	78.6	79.4	70.9	84.3	52.7	50.6	52.6
Fluoride	mg/L	0.311	0.291	0.361	0.309	0.304	0.311	0.268 J	0.213 J	0.158 J
pH_Field	SU	9.04	9.1	8.84	9.05	8.73	9.28	6.72	6.76	6.72
Sulfate	mg/L	236	224	243	227	159	161	900	814	800
TDS	mg/L	793	--	--	--	--	--	1530	1480	1430
Appendix IV										
Antimony	mg/L	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	0.000725 J	<0.0006	<0.0006
Arsenic	mg/L	<0.001	0.000735	0.000878	0.000737	0.000783	0.00114	0.0105	0.0106	0.0111
Barium	mg/L	0.22	0.149	0.17	0.149	0.146	0.149	0.032	0.0222	0.0235
Beryllium	mg/L	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<0.0003	<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	0.000646 J	0.000417 J	0.000339 J	0.000343 J	0.000885 J	<0.002	<0.002	<0.002
Cobalt	mg/L	<0.002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.00012 J	0.00796 J	0.00839 J	0.00889 J
Combined Radium	pCi/L	-0.0678 U	0.195 U	0.0456 U	0.207 U	0.714 U	1.05 U	0.251 U	0.638	0.521 U
Lead	mg/L	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001
Lithium	mg/L	0.347	0.358	0.347	0.271	0.261	0.274	0.128	0.12	0.128
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	0.0517	0.0449	0.0511	0.0488	0.0506	0.0661	0.0216	0.0226	0.0209

Notes:

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Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-3D								
		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	0.584	0.567	--	0.527	0.477	0.491	0.505	--	0.425
Calcium	mg/L	282	268	--	282	234	232	211	--	219
Chloride	mg/L	51.4	56	--	55	55	57	43	--	37
Fluoride	mg/L	0.109 J	0.29	--	0.28	0.3	0.29	0.35	0.35	0.37
pH_Field	SU	6.73	6.73	6.68	6.73	6.71	6.79	6.8	6.82	6.79
Sulfate	mg/L	833	--	760	860	630	710	590	--	540
TDS	mg/L	1500	1380	--	1370	1300	1300	1180	--	1060
Appendix IV										
Antimony	mg/L	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006
Arsenic	mg/L	0.0119	0.0122	--	0.0115	0.0103	0.0108	--	0.0119	0.0111
Barium	mg/L	0.0229	0.0259	--	0.0244	0.0229	0.0246	--	0.0282	0.0243
Beryllium	mg/L	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006
Cadmium	mg/L	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003
Chromium	mg/L	<0.002	<0.002	--	<0.002	<0.002	<0.002	--	<0.002	<0.002
Cobalt	mg/L	0.00787 J	0.00873 J	--	0.00861 J	0.00736 J	0.00684 J	--	0.00548 J	0.00529 J
Combined Radium	pCi/L	0.744	-0.0115 U	--	0.0879 U	0.137 U	0.589	--	0.634	0.147 U
Lead	mg/L	<0.001	<0.001	--	<0.001	<0.001	<0.001	--	<0.001	<0.001
Lithium	mg/L	0.124	0.167	--	0.163	0.12	0.119	--	0.11	0.112
Mercury	mg/L	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025
Molybdenum	mg/L	0.0219	0.0235	--	0.0238	0.0232	0.0226	--	0.0236	0.0219

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-3D								
		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
Appendix III										
Boron	mg/L	0.471	0.407	0.443	0.422	0.492	0.451	0.499	0.428	0.389
Calcium	mg/L	242	186	189	170	162	153	158	116	145
Chloride	mg/L	41	40.7	34.7	29.1	25.9	21	21.2	15	13.3
Fluoride	mg/L	0.39	0.343	0.361	0.397	0.362	0.351	0.433	0.388	0.341
pH_Field	SU	6.8	6.81	6.84	6.85	6.9	6.9	6.86	7.04	6.77
Sulfate	mg/L	700	484	529	488	473	501	513	352	352
TDS	mg/L	1220	956	960	840	937	--	--	--	--
Appendix IV										
Antimony	mg/L	<0.0008	0.00118 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508
Arsenic	mg/L	0.01	0.0108	0.0111	0.0118	0.015	0.0116	0.011	0.0107	0.0128
Barium	mg/L	0.0234	0.0404	0.0334	0.0304	0.0293	0.0247	0.0259	0.0247	0.0339
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406
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
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000203	0.000269 J	0.000327 J	0.000333 J
Cobalt	mg/L	0.00683	0.00555	0.00562	0.00456 J	0.00555	0.00451	0.00455	0.00378	0.00397
Combined Radium	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
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
Lithium	mg/L	0.123	0.104	0.115	0.11	0.121	0.116	0.12	0.0914	0.101
Mercury	mg/L	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.0228	0.0265	0.026	0.024	0.0265	0.0243	0.0254	0.0266	0.0264

Notes:

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4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-3D	MR-AP-MW-4							
		05/02/2023	07/19/2016	09/27/2016	11/01/2016	01/09/2017	02/13/2017	03/30/2017	04/04/2017	05/16/2017
Appendix III										
Boron	mg/L	0.324	0.496	0.514	0.571	0.572	0.565	--	0.536	0.482
Calcium	mg/L	94.5	333	320	305	329	291	--	287	279
Chloride	mg/L	6.52	40.8	47.1	49.7	48.8	46	--	50	50
Fluoride	mg/L	0.348	0.252 J	0.209 J	0.163 J	0.13 J	0.28	--	0.27	0.28
pH_Field	SU	6.82	5.82	5.85	5.79	5.83	5.78	5.73	5.7	5.72
Sulfate	mg/L	264	981	958	933	896	--	930	870	780
TDS	mg/L	--	1520	1540	1510	1510	1460	--	1270	1420
Appendix IV										
Antimony	mg/L	<0.00071	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006
Arsenic	mg/L	0.0126	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001
Barium	mg/L	0.0292	0.0165	0.0139	0.0141	0.0144	0.0145	--	0.013	0.0121
Beryllium	mg/L	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006
Cadmium	mg/L	<6.8e-005	0.000302 J	0.00021 J	0.000239 J	0.000248 J	0.00031 J	--	0.000241 J	0.000266 J
Chromium	mg/L	<0.000203	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002
Cobalt	mg/L	0.00405	0.0427	0.0401	0.0374	0.0291	0.0368	--	0.0348	0.0379
Combined Radium	pCi/L	0.857 U	0.621	0.529 U	0.142 U	0.54 U	0.764	--	-0.136 U	0.247 U
Lead	mg/L	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001
Lithium	mg/L	0.104	0.105	0.0988	0.104	0.102	0.136	--	0.134	0.1
Mercury	mg/L	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025
Molybdenum	mg/L	0.0293	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-4								
		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
Appendix III										
Boron	mg/L	0.478	0.506	--	0.433	0.503	0.45	0.495	0.431	0.46
Calcium	mg/L	258	249	--	212	245	259	252	210	194
Chloride	mg/L	52	45	--	39	41	40.8	42.3	40.1	30.8
Fluoride	mg/L	0.27	0.31	0.28	0.28	0.32	0.228	0.237	0.221	0.251
pH_Field	SU	5.83	5.86	5.86	5.85	5.86	5.91	6.04	5.96	5.93
Sulfate	mg/L	790	710	--	600	650	770	670	604	527
TDS	mg/L	1380	1270	--	1040	1180	1150	1120	904	934
Appendix IV										
Antimony	mg/L	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008
Arsenic	mg/L	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium	mg/L	0.0133	--	0.0137	0.0142	0.0119	0.0148	0.014	0.0137	0.0127
Beryllium	mg/L	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	0.000272 J	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Chromium	mg/L	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	0.0376	--	0.0171	0.0128	0.011	0.0201	0.0157	0.0119	0.0117
Combined Radium	pCi/L	0.6	--	0.786	-0.00808 U	0.311 U	0.039 U	0.533	0.31 U	0.434 U
Lead	mg/L	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	0.0992	--	0.0852	0.0926	0.0877	0.0738	0.0741	0.0851	0.0651
Mercury	mg/L	<0.00025	--	<0.00025	<0.00025	<0.00025	<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

Notes:

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2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
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5. 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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ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-4					MR-AP-MW-5			
		04/26/2021	09/01/2021	03/15/2022	09/26/2022	05/02/2023	07/26/2016	09/28/2016	11/02/2016	01/10/2017
Appendix III										
Boron	mg/L	0.412	0.46	0.423	0.36	0.382	0.873	0.857	0.909	0.915
Calcium	mg/L	193	213	159	180	146	315	324	305	319
Chloride	mg/L	24.8	24.6	19	17.3	19.6	39.1	40.9	44.1	45.2
Fluoride	mg/L	0.204	0.281	0.154	0.22	0.17	0.296 J	0.224 J	0.164 J	0.114 J
pH_Field	SU	5.75	5.76	6.27	6.05	6.07	7.01	7.06	7.02	7.17
Sulfate	mg/L	554	637	475	393	368	1040	1020	1000	995
TDS	mg/L	--	--	--	--	--	1630	1600	1640	1660
Appendix IV										
Antimony	mg/L	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.0006	<0.0006	<0.0006	<0.0006
Arsenic	mg/L	0.000368	0.000402	0.000199 J	0.000331	0.000146 J	0.0112	0.00955	0.0129	0.0135
Barium	mg/L	0.0115	0.0129	0.0137	0.0165	0.0178	0.0158	0.0153	0.0154	0.015
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	7.3e-005 J	7.63e-005 J	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002
Chromium	mg/L	<0.000203	0.000292 J	<0.000203	0.000278 J	<0.000203	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	0.00667	0.00719	0.0039	0.00501	0.00283	<0.002	<0.002	<0.002	<0.002
Combined Radium	pCi/L	0.394 U	0.238 U	0.285 U	0.525 U	0.203 U	0.205 U	0.403 U	0.483 U	0.687
Lead	mg/L	<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	0.0758	0.0716	0.0575	0.0674	0.064	0.249	0.223	0.229	0.227
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	8.18e-005 J	7.03e-005 J	0.00011 J	0.000153 J	<0.005075	0.0718	0.0638	0.0665	0.067

Notes:

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5. 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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ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-5								
		02/14/2017	04/03/2017	05/17/2017	06/12/2017	09/18/2017	01/31/2018	05/09/2018	10/08/2018	04/23/2019
Appendix III										
Boron	mg/L	0.932	0.932	0.953	0.854	0.921	--	0.851	0.833	0.846
Calcium	mg/L	341	329	296	263	292	--	265	290	329
Chloride	mg/L	44	48	53	53	45	--	45	44	43.8
Fluoride	mg/L	0.31	0.3	0.29	0.29	0.37	0.35	0.36	0.43	0.428
pH_Field	SU	7.01	7.09	7	7.08	7.09	7.13	7.03	7.26	7.03
Sulfate	mg/L	950	1100	930	940	830	--	790	820	898
TDS	mg/L	1600	1600	1630	1770	1530	--	1430	1300	1370
Appendix IV										
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008
Arsenic	mg/L	0.0141	0.0141	0.0138	0.0118	--	0.0142	0.0114	0.0109	0.0117
Barium	mg/L	0.017	0.0148	0.0149	0.0154	--	0.0162	0.0144	0.0149	0.0159
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002
Combined Radium	pCi/L	0.5 U	0.637	0.421 U	0.353 U	--	0.38 U	0.515 U	0.921	1.12
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	0.315	0.307	0.247	0.237	--	0.221	0.238	0.232	0.228
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	0.0004 J
Molybdenum	mg/L	0.0735	0.0719	0.0733	0.0655	--	0.076	0.061	0.0686	0.0722

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ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-5								MR-AP-PZ-5
		08/28/2019	03/02/2020	10/21/2020	05/03/2021	09/08/2021	03/14/2022	09/20/2022	04/25/2023	07/26/2016
Appendix III										
Boron	mg/L	0.852	0.851	0.847	0.864	0.843	0.867	0.915	0.955	0.434
Calcium	mg/L	279	267	242	249	245	250	251	224	52.8
Chloride	mg/L	47.1	42.1	35.8	31.1	27.9	26.5	23.1	22.4	30.5
Fluoride	mg/L	0.385	0.382	0.427	0.388	0.433	0.405	0.384	0.422	1.05
pH_Field	SU	7.08	7.18	7.07	6.96	7.08	6.92	7.03	7.37	7.88
Sulfate	mg/L	818	859	669	752	757	792	866	744	487
TDS	mg/L	1370	1270	1190	--	--	--	--	--	1040
Appendix IV										
Antimony	mg/L	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.0006
Arsenic	mg/L	0.0107	0.0122	0.0145	0.0111	0.0112	0.00987	0.00931	0.00879	0.00314 J
Barium	mg/L	0.0158	0.0155	0.0173	0.015	0.0174	0.0162	0.0171	0.0187	0.11
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002
Chromium	mg/L	<0.002	<0.002	<0.002	<0.000203	0.00026 J	<0.000203	<0.000203	<0.000203	<0.002
Cobalt	mg/L	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.002
Combined Radium	pCi/L	0.81	0.407 U	-0.12 U	0.646 U	0.745 U	0.571 U	0.714 U	1.49	0.331 U
Lead	mg/L	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001
Lithium	mg/L	0.237	0.237	0.193	0.228	0.229	0.189	0.195	0.241	0.228
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025
Molybdenum	mg/L	0.0709	0.0725	0.0877	0.0726	0.0733	0.0762	0.0901	0.0935	0.0122

Notes:

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ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-PZ-5								
		09/28/2016	11/02/2016	01/12/2017	02/13/2017	03/30/2017	04/03/2017	05/17/2017	06/12/2017	09/18/2017
Appendix III										
Boron	mg/L	0.454	0.46	0.471	0.473	--	0.424	0.462	0.418	0.428
Calcium	mg/L	246.4	61.3	47.7	54	--	28.7	26.7	26.3	20.2
Chloride	mg/L	31.1	30.2	29.8	33	--	32	37	34	36
Fluoride	mg/L	0.799	0.627	0.609	0.88	--	1.1	1	1.1	1.1
pH_Field	SU	7.8	7.86	7.9	7.86	8.06	8	7.99	7.91	8.04
Sulfate	mg/L	422	345	281	--	160	190	190	150	86
TDS	mg/L	1000	920	812	832	--	710	718	724	616
Appendix IV										
Antimony	mg/L	<0.0006	<0.0006	0.000701 J	0.00166 J	--	0.0008 J	0.000975 J	0.00107 J	--
Arsenic	mg/L	0.00629	0.00438 J	0.0039 J	0.00443 J	--	0.00206 J	0.00306 J	0.00203 J	--
Barium	mg/L	0.0644	0.0781	0.0582	0.0612	--	0.166	0.11	0.127	--
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	--
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	--
Chromium	mg/L	<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	--
Combined Radium	pCi/L	0.556 U	0.217 U	0.432 U	0.279 U	--	0.195 U	0.569 U	0.48 U	--
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	--
Lithium	mg/L	0.158	0.179	0.166	0.243	--	0.216	0.177	0.161	--
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	--
Molybdenum	mg/L	0.00843 J	0.00605 J	0.0049 J	0.00784 J	--	0.00474 J	0.00447 J	0.003 J	--

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-PZ-5								
		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	--	0.406	0.42	0.372	0.319	0.328	0.328	0.271	0.271
Calcium	mg/L	--	13.8	11.1	11.9	14.2	10.3	7.36	9.36	7.63
Chloride	mg/L	--	31	32	24.9	28.5	29.5	23.9	17.9	36.7
Fluoride	mg/L	1	1.1	1.3	1.33	2.07	1.9	1.89	2.38	2.27
pH_Field	SU	8.23	8.6	8.31	8.18	8.26	8.34	8.16	8.32	8.34
Sulfate	mg/L	--	29	4.7 J	8.17	92	19.8	7.39	48.2	33.4
TDS	mg/L	--	486	464	478	734	594	594	--	--
Appendix IV										
Antimony	mg/L	<0.0006	0.00103 J	<0.0008	0.0009 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508
Arsenic	mg/L	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	0.144	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	<0.000406	<0.000406
Cadmium	mg/L	<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	<0.000203	0.000205 J
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005
Combined Radium	pCi/L	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
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005
Lithium	mg/L	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	0.000311 J	<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	0.000438	0.000294

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-PZ-5			MR-AP-MW-6					
		03/14/2022	09/20/2022	04/25/2023	07/26/2016	09/28/2016	11/01/2016	01/09/2017	02/13/2017	03/29/2017
Appendix III										
Boron	mg/L	0.245	0.251	0.249	0.835	0.807	0.838	0.848	0.869	--
Calcium	mg/L	6.95	6.51	5.85	135	141	137	140	141	--
Chloride	mg/L	30.7	22.2	17.1	24.8	24.9	26	25.1	28	--
Fluoride	mg/L	2.28	2.39	2.23	0.108 J	0.054 J	<0.01	<0.01	0.08 J	--
pH_Field	SU	8.47	8.07	8.46	5.98	6	6	6.04	6.04	6.01
Sulfate	mg/L	51.7	34.6	6.92	532	540	521	543	--	540
TDS	mg/L	--	--	--	868	884	862	918	896	--
Appendix IV										
Antimony	mg/L	<0.000508	<0.000508	<0.00071	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--
Arsenic	mg/L	8.82e-005 J	0.00031	0.000191 J	<0.001	<0.001	<0.001	<0.001	<0.001	--
Barium	mg/L	0.267	0.222	0.217	0.0266	0.0261	0.0265	0.0256	0.0286	--
Beryllium	mg/L	<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	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--
Chromium	mg/L	0.00024 J	<0.000203	<0.000203	<0.002	<0.002	<0.002	<0.002	<0.002	--
Cobalt	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	0.0648	0.0673	0.0605	0.0504	0.065	--
Combined Radium	pCi/L	0.253 U	0.47 U	0.537 U	0.459 U	0.0516 U	0.279 U	0.114 U	-0.0383 U	--
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<0.001	--
Lithium	mg/L	0.143	0.138	0.158	0.0874	0.0812	0.0841	0.0842	0.101	--
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--
Molybdenum	mg/L	0.000335	0.000184 J	<0.005075	0.00707 J	0.00623 J	0.0059 J	0.00476 J	0.00615 J	--

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-6								
		04/03/2017	05/16/2017	06/12/2017	09/18/2017	01/31/2018	05/09/2018	10/08/2018	04/23/2019	08/28/2019
Appendix III										
Boron	mg/L	0.881	0.81	0.832	0.864	--	0.878	0.905	0.862	0.906
Calcium	mg/L	141	145	144	144	--	150	150	167	148
Chloride	mg/L	29	30	31	29	--	32	33	33	32.5
Fluoride	mg/L	0.07 J	0.09 J	0.1	0.11	0.1	0.09 J	0.13	0.167	0.105
pH_Field	SU	6.02	5.92	5.99	6.04	6.05	6.01	6.1	6.06	5.98
Sulfate	mg/L	550	490	560	510	--	500	490	638	609
TDS	mg/L	852	924	928	908	--	908	882	882	903
Appendix IV										
Antimony	mg/L	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008
Arsenic	mg/L	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
Barium	mg/L	0.0253	0.0268	0.026	--	0.0264	0.0242	0.023	0.0256	0.0269
Beryllium	mg/L	<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
Chromium	mg/L	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	0.0701	0.0725	0.0656	--	0.0564	0.0641	0.0616	0.0471	0.0283
Combined Radium	pCi/L	0.429 U	0.0754 U	0.506	--	0.433 U	0.106 U	0.612	0.356	0.268 U
Lead	mg/L	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	0.102	0.0778	0.0784	--	0.0732	0.079	0.077	0.0822	0.0853
Mercury	mg/L	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003
Molybdenum	mg/L	0.00623 J	0.00662 J	0.00613 J	--	0.00656 J	0.00525 J	0.00565 J	0.00479 J	0.00285 J

Notes:

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4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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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ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-6						MR-AP-MW-7SR		
		03/03/2020	10/20/2020	04/28/2021	09/01/2021	03/16/2022	09/21/2022	04/25/2023	10/20/2020	04/27/2021
Appendix III										
Boron	mg/L	0.895	0.947	0.923	0.921	0.887	0.851	0.865	0.726	0.708
Calcium	mg/L	155	148	172	160	160	189	147	92.8	89.7
Chloride	mg/L	35.3	34	36.7	34	33.2	31.9	32.7	22.9	23.1
Fluoride	mg/L	0.121	0.109	0.183	0.118	0.155	<0.06	0.0863 J	0.222	0.242
pH_Field	SU	6.11	6.15	6.1	6.28	6.07	6.08	6.06	6.54	6.56
Sulfate	mg/L	600	513	551	576	587	535	549	268	288
TDS	mg/L	926	876	--	--	--	--	--	588	--
Appendix IV										
Antimony	mg/L	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.0008	<0.000507
Arsenic	mg/L	<0.001	<0.001	0.000104 J	7.25e-005 J	0.000115 J	<8.1e-005	<0.000112	0.00251 J	0.00254
Barium	mg/L	0.0257	0.0252	0.0241	0.0251	0.0228	0.0217	0.0235	0.0466	0.0421
Beryllium	mg/L	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.000406
Cadmium	mg/L	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.000203	0.000287 J	0.000232 J	0.000246 J	<0.000203	<0.002	0.000219 J
Cobalt	mg/L	0.0186	0.00675	0.00574	0.00477	0.00531	0.00612	0.00983	<0.002	0.000826
Combined Radium	pCi/L	0.177 U	0.321 U	0.156 U	0.132 U	0.199 U	0.398 U	0.257 U	0.398 U	0.846 U
Lead	mg/L	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<6.8e-005
Lithium	mg/L	0.0877	0.0785	0.0865	0.0864	0.0731	0.0774	0.0898	0.143	0.156
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.00282 J	<0.002	0.00135	0.00174	0.00145	0.00202	<0.005075	0.0356	0.0324

Notes:

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4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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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ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-7SR				MR-AP-MW-7DR				
		09/01/2021	03/08/2022	09/20/2022	04/24/2023	10/20/2020	04/27/2021	09/01/2021	03/08/2022	09/20/2022
Appendix III										
Boron	mg/L	0.72	0.711	0.695	0.672	0.745	0.758	0.768	0.759	0.767
Calcium	mg/L	92.1	91.2	110	96.4	121	125	126	124	145
Chloride	mg/L	23.4	24.3	22.9	24	43.2	51	54.7	54.3	61.6
Fluoride	mg/L	0.245	0.223	0.177	0.195	0.122	0.126	0.16	<0.06	<0.06
pH_Field	SU	6.57	6.61	6.5	6.54	6.78	6.8	6.77	6.81	6.69
Sulfate	mg/L	279	279	281	293	384	390	398	407	414
TDS	mg/L	--	--	--	--	818	--	--	--	--
Appendix IV										
Antimony	mg/L	<0.000508	<0.000508	<0.000508	<0.00071	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508
Arsenic	mg/L	0.0022	0.00177	0.00182	0.00156	0.00547	0.00188	0.000979	0.000614	0.000694
Barium	mg/L	0.043	0.0403	0.0384	0.0394	0.0331	0.0262	0.028	0.0261	0.0287
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.000406	<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
Chromium	mg/L	0.000255 J	0.00023 J	<0.000203	<0.000203	<0.002	<0.000203	0.000296 J	<0.000203	0.000282 J
Cobalt	mg/L	0.000776	0.00067	0.000748	0.00152	<0.002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Combined Radium	pCi/L	0.627 U	0.649 U	0.445 U	0.804 U	0.197 U	0.334 U	1.4	0.263 U	0.872 U
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
Lithium	mg/L	0.16	0.139	0.155	0.173	0.12	0.13	0.13	0.105	0.108
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.0351	0.0333	0.0328	0.0282	0.00424 J	0.00393	0.00458	0.00515	0.00717

Notes:

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ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-	MR-AP-MW-9SR						MR-AP-MW-9DR	
		04/24/2023	10/15/2020	04/27/2021	09/01/2021	03/08/2022	09/21/2022	05/03/2023	10/15/2020	04/27/2021
Appendix III										
Boron	mg/L	0.746	0.11	0.138	0.144	0.117	0.0905 J	0.111	<0.03	<0.03
Calcium	mg/L	133	99.8	96.5	96.8	99.1	149	124	98.7	97.8
Chloride	mg/L	52.6	12.5	9.96	10.9	8.44	5.58	2.93	6.21	6.72
Fluoride	mg/L	0.115 J	0.114	0.125	0.162	0.125	0.0775 J	0.138	0.129	0.149
pH_Field	SU	6.7	6.42	6.36	6.33	6.28	6.49	6.34	6.67	6.68
Sulfate	mg/L	421	339	342	335	349	305	343	303	329
TDS	mg/L	--	686	--	--	--	--	--	654	--
Appendix IV										
Antimony	mg/L	<0.00071	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.0008	<0.000507
Arsenic	mg/L	0.000465	0.0016 J	0.00112	0.000904	0.000786	0.000807	0.000634	<0.001	0.000587
Barium	mg/L	0.0277	0.0274	0.0184	0.0172	0.0169	0.0186	0.0209	0.0408	0.0368
Beryllium	mg/L	<0.000406	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.000406
Cadmium	mg/L	<6.8e-005	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<6.8e-005
Chromium	mg/L	<0.000203	<0.002	0.000204 J	0.000308 J	0.000204 J	<0.000203	<0.000203	<0.002	0.000284 J
Cobalt	mg/L	<6.8e-005	<0.002	0.000331	0.000161 J	0.000216	0.000115 J	0.0004	<0.002	0.000206
Combined Radium	pCi/L	0.863 U	0.222 U	0.157 U	0.272 U	0.447 U	0.391 U	0.709 U	0.897	0.699 U
Lead	mg/L	<6.8e-005	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<6.8e-005
Lithium	mg/L	0.124	0.0413	0.045	0.0464	0.04	0.0421	0.0464	0.0815	0.0818
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.005075	0.00213 J	0.0015	0.000468	0.000268	0.000302	<0.005075	<0.002	0.00031

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-9DR				MR-AP-MW-13SR				
		09/01/2021	03/08/2022	09/21/2022	05/03/2023	10/20/2020	04/21/2021	09/07/2021	03/09/2022	09/19/2022
Appendix III										
Boron	mg/L	<0.03	<0.03	0.24	0.272	0.0541 J	0.0404 J	0.0429 J	0.0421 J	0.0418 J
Calcium	mg/L	95.5	86.5	219	180	35.9	98.6	105	96.8	81.4
Chloride	mg/L	6.69	7.08	8.42	9.38	10.6	5.3	4.94	4.71	4.02
Fluoride	mg/L	0.197	0.11 J	0.178	0.281	0.434	0.402	0.532	0.573	0.407
pH_Field	SU	6.66	6.75	6.71	6.46	6.28	6.19	5.98	6.05	5.65
Sulfate	mg/L	314	296	665	650	285	610	871	902	714
TDS	mg/L	--	--	--	--	604	--	--	--	--
Appendix IV										
Antimony	mg/L	<0.000508	<0.000508	<0.000508	<0.00071	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508
Arsenic	mg/L	0.000564	0.000858	0.000632	0.000541	<0.001	0.00109	0.0013	0.00155	0.00187
Barium	mg/L	0.0394	0.0393	0.0208	0.0217	0.0466	0.0286	0.0277	0.0216	0.019
Beryllium	mg/L	<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	<6.8e-005	<0.0003	<6.8e-005	<6.8e-005	9.6e-005 J	0.000378
Chromium	mg/L	0.000297 J	0.000241 J	0.000301 J	<0.000203	<0.002	0.000239 J	0.000339 J	0.000675 J	0.000275 J
Cobalt	mg/L	0.000107 J	0.000128 J	0.000147 J	0.000156 J	0.0112	0.0523	0.0816	0.0824	0.0931
Combined Radium	pCi/L	0.667 U	0.145 U	1.24	0.453 U	0.479 U	1.13	1.24 U	1.28	1.11 U
Lead	mg/L	<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	0.0827	0.0682	0.0642	0.071	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
Molybdenum	mg/L	0.000345	0.00121	0.000304	<0.005075	0.00311 J	0.00029	0.000166 J	0.000137 J	0.00011 J

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-	MR-AP-MW-13DR						MR-AP-MW-14R	
		04/18/2023	10/20/2020	04/21/2021	09/07/2021	03/09/2022	09/19/2022	04/18/2023	10/20/2020	04/21/2021
Appendix III										
Boron	mg/L	0.04 J	0.0304 J	0.0561 J	0.0476 J	0.0558 J	0.0532 J	0.0492 J	0.0773 J	0.101 J
Calcium	mg/L	65	46.7	63.9	64.9	73	77.5	67.9	36.4	35.7
Chloride	mg/L	4.62	13.8	40.5	40.2	45.8	45	65.5	7.55	7.77
Fluoride	mg/L	0.124 J	0.146	0.134	0.183	0.179	0.156	0.264	0.177	0.166
pH_Field	SU	5.16	6.81	6.87	6.77	6.97	7.07	7.07	6.46	6.49
Sulfate	mg/L	718	65.8	151	167	210	179	178	39.3	43.1
TDS	mg/L	--	314	--	--	--	--	--	219	--
Appendix IV										
Antimony	mg/L	<0.00071	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.0008	<0.000507
Arsenic	mg/L	0.00135	<0.001	0.000396	0.000413	0.000659	0.000629	0.00066	<0.001	0.000288
Barium	mg/L	0.0163	0.144	0.104	0.0749	0.0618	0.0576	0.0494	0.116	0.0998
Beryllium	mg/L	0.00244	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.000406
Cadmium	mg/L	0.000563	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<6.8e-005
Chromium	mg/L	<0.000203	<0.002	0.000207 J	0.000306 J	<0.000203	0.000647 J	0.000323 J	<0.002	0.000239 J
Cobalt	mg/L	0.0819	<0.002	0.00086	0.000719	0.000664	0.00092	0.000767	<0.002	6.88e-005 J
Combined Radium	pCi/L	0.695 U	0.357 U	0.748 U	0.822 U	0.284 U	0.762 U	0.555 U	-0.128 U	0.164 U
Lead	mg/L	0.00101	<0.001	0.000121 J	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<6.8e-005
Lithium	mg/L	0.0199 J	0.0343	0.0356	0.0357	0.031	0.037	0.0382	0.0207	0.0211
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.005075	0.00206 J	0.00592	0.00355	0.00325	0.0034	<0.005075	<0.002	0.000157 J

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-14R				MR-AP-MW-15				
		09/13/2021	03/09/2022	09/26/2022	05/02/2023	07/19/2016	09/26/2016	10/31/2016	01/09/2017	02/14/2017
Appendix III										
Boron	mg/L	0.0837 J	0.081 J	0.0756 J	0.0761 J	0.15	0.175	0.204	0.192	0.161
Calcium	mg/L	38	36.6	37.5	47.5	37	37.5	38.4	37.8	39.2
Chloride	mg/L	7.9	7.96	7.67	8.39	16.9	17.1	17.3	17.2	20
Fluoride	mg/L	0.171	0.188	0.215	0.167	0.111 J	0.069 J	0.018 J	<0.01	0.1
pH_Field	SU	6.3	6.53	6.49	6.4	6.55	6.55	6.49	6.46	6.47
Sulfate	mg/L	47.6	48.7	48.7	49.4	69.3	74.7	80.6	77.9	68
TDS	mg/L	--	--	--	--	255	259	265	276	246
Appendix IV										
Antimony	mg/L	<0.000508	<0.000508	<0.000508	<0.00071	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Arsenic	mg/L	0.000234	0.000186 J	0.000183 J	0.000139 J	<0.001	<0.001	<0.001	<0.001	<0.001
Barium	mg/L	0.104	0.101	0.1	0.101	0.125	0.131	0.101	0.0952	0.106
Beryllium	mg/L	<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	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chromium	mg/L	0.000444 J	<0.000203	0.000356 J	<0.000203	<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	<0.002	<0.002	<0.002	<0.002	<0.002
Combined Radium	pCi/L	0.387 U	0.417 U	1 U	0.502 U	0.191 U	0.663	0.608	-0.0687 U	0.459 U
Lead	mg/L	<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	0.0212	0.0196 J	0.0204	0.0206	0.0199 J	0.0206 J	0.021 J	0.0201 J	0.022 J
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	0.000107 J	0.000116 J	<0.000102	<0.0005075	<0.002	<0.002	<0.002	<0.002	<0.002

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-15								
		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	0.147	0.168	0.18	0.192	--	0.258	0.237	0.243	0.863
Calcium	mg/L	37.5	40.4	38.4	37.8	--	38.4	38.2	39	53.8
Chloride	mg/L	19	20	21	19	--	20	20	18.3	19.3
Fluoride	mg/L	0.1	0.1	0.1	0.12	0.1	0.11	0.13	0.133	0.0974 J
pH_Field	SU	6.38	6.46	6.41	6.5	6.5	6.42	6.46	6.46	6.38
Sulfate	mg/L	71	62	77	72	--	77	76	91.9	227
TDS	mg/L	257	283	266	266	--	264	239	234	397
Appendix IV										
Antimony	mg/L	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008
Arsenic	mg/L	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
Barium	mg/L	0.0962	0.1	0.08	--	0.07	0.071	0.0588	0.0765	0.0424
Beryllium	mg/L	<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
Chromium	mg/L	<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	0.0021 J
Combined Radium	pCi/L	0.327 U	0.232 U	0.123 U	--	0.516	0.615	0.825	0.373	0.00424 U
Lead	mg/L	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	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	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	0.000316 J	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		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	07/19/2016	09/26/2016
Appendix III										
Boron	mg/L	0.285	0.375	0.651	0.705	0.445	1.79	1.36	2.86	2.86
Calcium	mg/L	39.3	41.4	48.3	47.8	39.5	87.1	66.4	185	189
Chloride	mg/L	18.5	17.5	17.9	17.5	17.6	17.6	17.9	24.9	29.2
Fluoride	mg/L	0.111	0.125	0.117	0.118	0.103 J	<0.06	0.119 J	0.194 J	0.158 J
pH_Field	SU	6.43	6.42	6.36	6.16	6.37	6.32	6.33	6.07	5.91
Sulfate	mg/L	93.9	107	157	163	123	352	280	683	707
TDS	mg/L	269	280	--	--	--	--	--	1080	1140
Appendix IV										
Antimony	mg/L	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.0006	<0.0006
Arsenic	mg/L	<0.001	<0.001	0.000665	0.000827	0.00042	0.00162	0.000777	0.00159 J	<0.001
Barium	mg/L	0.0544	0.0522	0.0308	0.0298	0.026	0.041	0.023	0.044	0.0367
Beryllium	mg/L	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<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	0.000222 J	0.000208 J
Chromium	mg/L	<0.002	<0.002	<0.000203	0.000328 J	0.000612 J	0.000243 J	<0.000203	<0.002	<0.002
Cobalt	mg/L	<0.002	<0.002	0.000703	0.000661	0.000652	0.0247	0.0118	0.0507	0.0389
Combined Radium	pCi/L	0.337 U	0.232 U	0.643 U	0.37 U	0.387 U	0.359 U	1.05 U	0.456 U	0.854
Lead	mg/L	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001
Lithium	mg/L	0.0195 J	0.0195 J	0.0194 J	0.0196 J	0.0176 J	0.0231	0.0226	0.0816	0.0636
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025
Molybdenum	mg/L	<0.002	<0.002	<6.8e-005	8.49e-005 J	<0.000102	0.000518	<0.005075	0.0204	0.00799 J

Notes:

1. mg/L - Milligrams per Liter
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3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-16								
		10/31/2016	01/09/2017	02/14/2017	04/03/2017	05/16/2017	06/12/2017	09/19/2017	01/30/2018	05/07/2018
Appendix III										
Boron	mg/L	3.25	2.71	2.39	1.86	2.67	2.81	3	--	2.83
Calcium	mg/L	163	214	237	159	154	146	136	--	129
Chloride	mg/L	25.9	31.7	43	25	21	23	19	--	16
Fluoride	mg/L	0.068 J	<0.01	0.14	0.13	0.13	0.14	0.16	0.12	0.16
pH_Field	SU	6.19	6.03	6.13	5.97	5.97	6.1	6.03	5.95	6.01
Sulfate	mg/L	610	707	670	520	470	510	460	--	430
TDS	mg/L	1010	1250	1180	846	880	872	848	--	742
Appendix IV										
Antimony	mg/L	<0.0006	<0.0006	0.000801 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
Barium	mg/L	0.0277	0.0323	0.0391	0.0245	0.0276	0.0242	--	0.0289	0.0264
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002
Cobalt	mg/L	0.0152	0.00298 J	0.00507 J	0.00228 J	0.00418 J	<0.002	--	<0.002	<0.002
Combined Radium	pCi/L	0.268 U	0.118 U	0.264 U	0.00348 U	0.229 U	0.226 U	--	1.05	0.444 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001
Lithium	mg/L	0.0759	0.0254 J	0.0859	0.0487 J	0.0297 J	0.0429 J	--	0.026 J	0.0538
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025
Molybdenum	mg/L	0.0458	0.00431 J	0.0255	0.0119	0.00405 J	0.0216	--	0.00829 J	0.0256

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-16								
		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
Appendix III										
Boron	mg/L	2.85	2.41	3.18	1.29	2.62	2.63	2.16	2.13	2.79
Calcium	mg/L	211	127	99.5	66.8	96.9	99.3	130	154	146
Chloride	mg/L	24	12	10.8	5.33	10	10.3	6.87	7.81	11.4
Fluoride	mg/L	0.18	0.236	0.29	0.179	0.145	0.173	0.14	0.155	0.128
pH_Field	SU	6	6.01	6.34	6.19	6.31	6.39	6.31	6.15	6.66
Sulfate	mg/L	580	406	384	198	366	392	427	530	503
TDS	mg/L	982	618	642	378	738	--	--	--	--
Appendix IV										
Antimony	mg/L	<0.0008	0.00101 J	<0.0008	<0.0008	<0.0008	0.000768 J	<0.000508	<0.000508	<0.000508
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	0.000891	0.000895	0.000728	0.00307
Barium	mg/L	0.0271	0.0243	0.0208	0.03	0.0322	0.02	0.0243	0.0206	0.0243
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406
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
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000203	0.000666 J	<0.000203	<0.000203
Cobalt	mg/L	<0.002	<0.002	0.00216 J	<0.002	0.00352 J	0.00213	0.00646	0.00413	0.00648
Combined Radium	pCi/L	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
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
Lithium	mg/L	0.0285	0.0294 J	0.0555	0.0278	0.132	0.128	0.104	0.0901	0.177
Mercury	mg/L	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.0114	0.0142	0.107	0.025	0.0494	0.0515	0.0336	0.0418	0.0863

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-16	MR-AP-MW-4V							
		04/19/2023	03/05/2019	08/27/2019	03/04/2020	10/14/2020	04/26/2021	09/01/2021	03/15/2022	09/26/2022
Appendix III										
Boron	mg/L	2.18	0.357	0.51	0.303	0.483	0.382	0.452	0.645	0.855
Calcium	mg/L	158	224	252	146	193	178	205	226	297
Chloride	mg/L	5.39	26.5	44.5	24.3	35.2	23.6	24.9	23.7	25.3
Fluoride	mg/L	0.16	0.135	0.181	0.0996 J	0.125	0.106	0.143	0.244	0.347
pH_Field	SU	6.35	6.5	6.38	6.34	6.38	6.34	5.85	6.68	6.75
Sulfate	mg/L	553	565	706	498	554	512	619	715	749
TDS	mg/L	--	852	1190	736	963	--	--	--	--
Appendix IV										
Antimony	mg/L	<0.00071	0.000839 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508
Arsenic	mg/L	0.000509	0.00175 J	0.00149 J	<0.001	<0.001	0.000554	0.000815	0.00136	0.00375
Barium	mg/L	0.0189	0.0223	0.0187	0.019	0.0179	0.0182	0.0177	0.0183	0.0186
Beryllium	mg/L	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<6.8e-005	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.000203	<0.002	<0.002	<0.002	<0.002	<0.000203	0.000268 J	<0.000203	0.000315 J
Cobalt	mg/L	0.0024	0.00865	0.0104	0.00216 J	0.00364 J	0.00507	0.00741	0.013	0.00886
Combined Radium	pCi/L	0.679 U	0.244 U	0.948	0.16 U	0.505	0.233 U	0 U	0.496 U	1.04 U
Lead	mg/L	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	7.41e-005 J
Lithium	mg/L	0.0713	0.0575	0.0788	0.0341	0.0601	0.0371	0.0507	0.12	0.155
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.0499	0.00463 J	0.00763 J	<0.002	<0.002	0.00109	0.00134	0.00752	0.0278

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-4V	MR-AP-MW-6V							
		05/02/2023	03/05/2019	08/28/2019	12/19/2019	03/03/2020	10/19/2020	04/28/2021	09/08/2021	03/16/2022
Appendix III										
Boron	mg/L	0.33	0.753	0.379	0.565	0.431	0.437	0.472	0.561	0.499
Calcium	mg/L	108	181	89.2	114	103	96.4	97.3	110	99.9
Chloride	mg/L	39.2	27.8	18.9	27.3	23.6	25	24.3	34.3	27.7
Fluoride	mg/L	0.257	0.14	0.155	0.132	0.141	0.16	0.142	0.178	0.145
pH_Field	SU	6.59	7.24	7.34	7.03	7.14	7.28	7.15	6.98	7.17
Sulfate	mg/L	306	526	228	341	309	238	268	332	266
TDS	mg/L	--	840	560	748	622	594	--	--	--
Appendix IV										
Antimony	mg/L	<0.00071	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.000706	0.00146 J	0.0171	0.0149	0.0236	0.00307 J	0.00239	0.0016	0.00161
Barium	mg/L	0.0316	0.0355	0.0614	0.0432	0.0275	0.0597	0.0259	0.0331	0.0281
Beryllium	mg/L	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<6.8e-005	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	0.000262 J	<0.002	0.00361 J	<0.002	<0.002	<0.002	0.00026 J	0.000215 J	0.000222 J
Cobalt	mg/L	0.00404	<0.002	<0.002	<0.002	<0.002	<0.002	0.000466	0.000225	0.000213
Combined Radium	pCi/L	0.838 U	0.66	0.389 U	--	-0.0545 U	0.106 U	0.0421 U	0.891 U	0.493 U
Lead	mg/L	0.000167 J	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.0434	0.145	0.1	0.12	0.104	0.0971	0.109	0.121	0.097
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.00673 J	0.0065 J	0.00782 J	0.00862 J	0.00777 J	0.00562 J	0.00578	0.0061	0.00644

Notes:

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2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-6V		MR-AP-MW-17H						
		09/26/2022	04/24/2023	03/06/2019	08/27/2019	03/10/2020	10/13/2020	05/05/2021	09/07/2021	03/08/2022
Appendix III										
Boron	mg/L	0.455	0.35	0.0571 J	0.0898 J	0.0538 J	0.0857 J	0.145	0.0842 J	0.0797 J
Calcium	mg/L	109	91.4	47	48.3	50.6	44.6	43.7	43.2	41.7
Chloride	mg/L	25	55.3	6.27	6.42	4.72	6.09	9.16	6.45	6.06
Fluoride	mg/L	0.152	0.185	0.133	0.16	0.166	0.171	0.159	0.213	0.158
pH_Field	SU	7.76	7.98	6.98	6.98	7.04	7	6.99	6.82	7.07
Sulfate	mg/L	240	233	60.4	83.6	51.9	81.6	93.2	65.8	62.1
TDS	mg/L	--	--	389	436	370	433	--	--	--
Appendix IV										
Antimony	mg/L	<0.000508	<0.00071	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.00139	0.0012	<0.001	<0.001	<0.001	<0.001	0.00115	0.000107 J	<8.1e-005
Barium	mg/L	0.0343	0.0301	0.65	0.495	0.425	0.444	1.68	0.511	0.622
Beryllium	mg/L	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	0.000633 J	<0.000406	<0.000406
Cadmium	mg/L	<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	0.000592 J	0.000232 J	<0.002	<0.002	<0.002	<0.002	0.00119	0.000293 J	<0.000203
Cobalt	mg/L	0.000852	0.000254	<0.002	<0.002	<0.002	<0.002	0.00342	<6.8e-005	<6.8e-005
Combined Radium	pCi/L	0.85 U	1.27	0.732	0.701	1.18	0.298 U	2.37	1.32 U	0.896 U
Lead	mg/L	0.000416	0.000991	<0.001	<0.001	<0.001	<0.001	0.00116	<6.8e-005	<6.8e-005
Lithium	mg/L	0.0938	0.0866	0.0597	0.0831	0.0566	0.0845	0.116	0.0826	0.0644
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.00701	0.00758 J	<0.002	<0.002	<0.002	<0.002	0.000351	<6.8e-005	<0.000102

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-17H		MR-AP-MW-18H						
		09/14/2022	04/19/2023	03/06/2019	08/27/2019	03/10/2020	10/13/2020	05/05/2021	09/14/2021	03/08/2022
Appendix III										
Boron	mg/L	0.108	0.0834 J	0.178	0.299	0.151	0.302	0.237	0.289	0.194
Calcium	mg/L	37.6	40.8	4.86	16	2.15	17.7	12.5	15.1	3.72
Chloride	mg/L	7.92	6.4	8.61	58.9	5.53	22.7	14.9	14.1	5.42
Fluoride	mg/L	0.206	0.141	0.256	0.26	0.261	0.272	0.242	0.273	0.294
pH_Field	SU	6.55	6.98	7.39	7.28	7.28	7.23	7.31	7.39	7.5
Sulfate	mg/L	78.3	56.1	158	427	98.1	362	270	291	125
TDS	mg/L	--	--	398	937	328	823	--	--	--
Appendix IV										
Antimony	mg/L	<0.000508	<0.00071	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	<8.1e-005	<0.000112	<0.001	<0.001	<0.001	<0.001	0.000269	0.000241	0.000276
Barium	mg/L	0.196	0.628	0.0293	0.0361	0.0261	0.0379	0.0484	0.0301	0.0258
Beryllium	mg/L	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<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	<0.000203	<0.000203	<0.002	<0.002	<0.002	<0.002	0.0003 J	0.000328 J	0.000226 J
Cobalt	mg/L	0.0002 J	9e-005 J	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005
Combined Radium	pCi/L	0.73 U	1.19	0.229 U	0.344 U	0.95	0.0821 U	0.183 U	0.686 U	0.528 U
Lead	mg/L	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.0898	0.0663	0.1	0.23	0.0875	0.215	0.167	0.188	0.0926
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.000102	<0.005075	0.00498 J	0.0131	0.00972 J	0.00832 J	0.00733	0.00851	0.0104

Notes:

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2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
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5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-18H		MR-AP-MW-19HA						
		09/21/2022	05/02/2023	03/09/2020	10/14/2020	04/20/2021	09/13/2021	03/09/2022	09/14/2022	05/01/2023
Appendix III										
Boron	mg/L	0.257	0.172	0.132	0.167	0.193	0.159	0.158	0.161	0.162
Calcium	mg/L	8.78	3.04	5.28	8	10.1	6	8.95	23.8	14.2
Chloride	mg/L	12.1	4.3	26.3	120	250	138	165	288	204
Fluoride	mg/L	0.213	0.284	2.41	2.32	2.51	2.59	2.4	1.9	2.07
pH_Field	SU	7.21	7.52	8.05	8.25	7.97	8.63	8.07	7.79	8.02
Sulfate	mg/L	242	111	35	83.1	167	58.8	110	225	142
TDS	mg/L	--	--	900	1300	--	--	--	--	--
Appendix IV										
Antimony	mg/L	<0.000508	<0.00071	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071
Arsenic	mg/L	0.000182 J	0.000179 J	0.00384 J	0.00247 J	0.000986	0.000423	0.00061	0.00101	0.000273
Barium	mg/L	0.0452	0.0402	0.0752	0.0769	0.0976	0.0673	0.0604	0.129	0.122
Beryllium	mg/L	<0.000406	<0.000406	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<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	0.000278 J	<0.000203	<0.002	<0.002	<0.000203	0.000289 J	<0.000203	<0.000203	0.000252 J
Cobalt	mg/L	<6.8e-005	<6.8e-005	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Combined Radium	pCi/L	1.46	0.349 U	0.684	0.362	0.93 U	0.231 U	0.425 U	0.294 U	0.546 U
Lead	mg/L	<6.8e-005	0.000117 J	0.0023 J	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.154	0.112	0.138	0.173	0.183	0.169	0.124	0.149	0.195
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.0107	0.013	<0.002	<0.002	0.000945	0.000577	0.00363	0.0168	0.0055 J

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-20H								
		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
Appendix III										
Boron	mg/L	0.699	0.751	0.759	0.724	0.735	0.741	0.759	0.756	0.864
Calcium	mg/L	266	240	226	201	191	207	191	247	197
Chloride	mg/L	44.5	43.8	44.2	38.6	34	33.4	27.6	25.8	26.8
Fluoride	mg/L	0.234	0.279	0.297	0.311	0.303	0.347	0.329	0.289	0.32
pH_Field	SU	7.14	7.49	7.35	7.33	7.29	7.37	7.38	7.26	7.3
Sulfate	mg/L	904	820	793	634	645	718	785	685	709
TDS	mg/L	1260	1320	1290	1130	--	--	--	--	--
Appendix IV										
Antimony	mg/L	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071
Arsenic	mg/L	<0.001	0.00104 J	<0.001	0.00105 J	0.00106	0.000941	0.000874	0.00089	0.000878
Barium	mg/L	0.0486	0.0361	0.0267	0.0276	0.025	0.028	0.0245	0.0273	0.0411
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<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
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	0.000229 J	0.000241 J	0.000205 J	0.000306 J	0.000211 J
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	0.000658	0.000784	0.000813	0.001	0.000959
Combined Radium	pCi/L	0.995	0.144 U	0.276 U	0.154 U	0.46 U	0.265 U	0.408 U	2.05	1.07
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
Lithium	mg/L	0.235	0.278	0.277	0.245	0.267	0.269	0.217	0.215	0.212
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.0391	0.055	0.0593	0.0683	0.0606	0.0609	0.0621	0.0713	0.075

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-20HS								
		03/06/2019	09/03/2019	03/10/2020	10/19/2020	05/03/2021	09/08/2021	03/09/2022	09/21/2022	04/19/2023
Appendix III										
Boron	mg/L	0.641	0.61	0.633	0.615	0.562	0.557	0.491	0.4	0.384
Calcium	mg/L	179	161	157	145	133	130	114	130	79.7
Chloride	mg/L	38.1	36.8	38.9	35.4	34.4	35.4	32.6	32.4	32.7
Fluoride	mg/L	<0.05	<0.05	0.0631 J	<0.06	0.0639 J	<0.06	<0.06	<0.06	0.0737 J
pH_Field	SU	6.32	6.34	6.47	6.51	6.29	6.33	6.71	6.33	6.62
Sulfate	mg/L	619	529	550	475	438	479	398	297	239
TDS	mg/L	894	929	944	862	--	--	--	--	--
Appendix IV										
Antimony	mg/L	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	0.00022	0.000275	0.000215	0.000276	0.000264
Barium	mg/L	0.0711	0.0425	0.0292	0.0283	0.027	0.0269	0.0263	0.029	0.0283
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<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
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.000203	0.000268 J	0.00022 J	<0.000203	<0.000203
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	0.00089	0.000812	0.000831	0.000591	0.000243
Combined Radium	pCi/L	0.23 U	0.37 U	0.374 U	0.0854 U	0.286 U	0.505 U	0.327 U	0.618 U	0.61 U
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
Lithium	mg/L	0.0987	0.0973	0.094	0.0797	0.0783	0.0783	0.0594	0.0512	0.0415
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	0.000249	0.000389	0.000371	0.000368	<0.005075

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-27HR						MR-AP-MW-28H		
		10/26/2020	05/03/2021	09/14/2021	03/14/2022	09/21/2022	04/25/2023	03/09/2020	10/19/2020	04/20/2021
Appendix III										
Boron	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.119	0.608	0.212
Calcium	mg/L	47.2	48.8	47.2	44.5	51.4	54.6	56.9	63.6	49.8
Chloride	mg/L	14.1	16	15.6	15.5	16.5	59.4	5.26	5.22	5.58
Fluoride	mg/L	0.161	0.171	0.175	0.116 J	0.0743 J	0.147	0.117	0.154	0.123
pH_Field	SU	7.2	7.16	7.21	7.17	7.15	7.13	6.8	6.79	6.64
Sulfate	mg/L	61.6	69.2	66.2	65.4	62.9	114	105	173	96.2
TDS	mg/L	321	--	--	--	--	--	375	458	--
Appendix IV										
Antimony	mg/L	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.0008	<0.0008	<0.000507
Arsenic	mg/L	<0.001	0.00031	0.000272	0.000265	0.000147 J	0.000307	0.00423 J	0.00281 J	0.00173
Barium	mg/L	0.101	0.0893	0.091	0.0875	0.0777	0.095	0.0658	0.0429	0.0447
Beryllium	mg/L	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.000406
Cadmium	mg/L	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<6.8e-005
Chromium	mg/L	<0.002	0.000203 J	0.000388 J	0.000357 J	0.000302 J	<0.000203	<0.002	<0.002	<0.000203
Cobalt	mg/L	<0.002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.00226 J	<0.002	0.000397
Combined Radium	pCi/L	0.0991 U	0.455 U	0.417 U	0.336 U	0.992 U	0.577 U	0.641	0.155 U	0.0931 U
Lead	mg/L	<0.001	0.000258	<6.8e-005	0.000101 J	<6.8e-005	<6.8e-005	<0.001	<0.001	<6.8e-005
Lithium	mg/L	0.0427	0.0441	0.0441	0.0415	0.0404	0.0489	0.0593	0.058	0.0576
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	0.00103	0.000808	0.000701	0.000966	0.00646 J	<0.002	0.00517 J	0.0017

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-28H				MR-AP-MW-30H				
		09/13/2021	03/14/2022	09/20/2022	04/19/2023	03/10/2020	10/20/2020	04/21/2021	09/13/2021	03/16/2022
Appendix III										
Boron	mg/L	0.289	0.292	0.261	0.227	0.0912 J	0.0673 J	0.0481 J	0.0312 J	0.0394 J
Calcium	mg/L	58.3	50.6	59	46.5	207	228	229	223	198
Chloride	mg/L	6.4	5.91	7.21	7.37	117	149	131	81.7	99.5
Fluoride	mg/L	0.145	0.111 J	0.132	0.147	0.172	0.158	0.141	0.171	0.142
pH_Field	SU	6.62	6.82	6.72	6.81	6.91	6.84	6.83	6.79	6.72
Sulfate	mg/L	133	105	78.3	80.4	820	850	796	764	761
TDS	mg/L	--	--	--	--	1720	1840	--	--	--
Appendix IV										
Antimony	mg/L	<0.000508	<0.000508	<0.000508	<0.00071	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.00164	0.00135	0.00201	0.000934	0.00737	0.00242 J	0.000974	0.000493	0.0011
Barium	mg/L	0.0484	0.0452	0.055	0.0436	0.0503	0.0468	0.0266	0.0207	0.0214
Beryllium	mg/L	<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	<6.8e-005	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	0.000265 J	<0.000203	<0.000203	<0.000203	<0.002	<0.002	<0.000203	0.000324 J	0.000215 J
Cobalt	mg/L	0.000266	0.000248	0.000292	0.00016 J	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005
Combined Radium	pCi/L	0.173 U	0.219 U	0.876 U	0.125 U	0.829	0.598	1.09	0.361 U	0.539 U
Lead	mg/L	<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	0.0606	0.0531	0.0506	0.0487	0.0821	0.0918	0.108	0.0967	0.088
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.00156	0.00203	0.00177	<0.005075	0.00436 J	0.00856 J	0.00576	0.00103	0.00234

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-30H		MR-AP-MW-32H						
		09/19/2022	04/26/2023	03/10/2020	10/15/2020	04/28/2021	09/14/2021	03/09/2022	09/21/2022	04/19/2023
Appendix III										
Boron	mg/L	0.0334 J	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	241	206	51.1	49.5	58.5	58.7	53.6	71.4	56.6
Chloride	mg/L	90	58.4	5.73	4.47	7.94	7.41	8.5	7.96	8.09
Fluoride	mg/L	0.12 J	0.142	0.132	0.151	0.133	0.275	0.138	0.0663 J	0.135
pH_Field	SU	6.78	6.77	7.27	7.32	7.18	7.36	7.35	7.2	7.28
Sulfate	mg/L	721	710	16.3	7.29	21.8	16.2	18.2	16.5	21.2
TDS	mg/L	--	--	216	232	--	--	--	--	--
Appendix IV										
Antimony	mg/L	<0.000508	<0.00071	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071
Arsenic	mg/L	0.000763	0.000359	0.00312 J	0.00527	0.000881	0.000924	0.000802	0.00103	0.00091
Barium	mg/L	0.0216	0.0195	0.367	0.584	0.522	0.585	0.492	0.508	0.401
Beryllium	mg/L	<0.000406	<0.000406	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<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	0.000331 J	<0.000203	<0.002	<0.002	0.000309 J	0.000365 J	0.000236 J	0.000373 J	<0.000203
Cobalt	mg/L	<6.8e-005	<6.8e-005	<0.002	<0.002	0.000134 J	<6.8e-005	7.12e-005 J	0.000238	<6.8e-005
Combined Radium	pCi/L	0.756 U	0.521 U	0.4 U	0.826	0.352 U	0.784 U	0.497 U	1.1 U	0.565 U
Lead	mg/L	<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	0.0948	0.107	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.00295	<0.005075	0.0129	0.00939 J	0.00777	0.00617	0.00541	0.00498	<0.005075

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-33H						MR-AP-MW-34H		
		03/05/2020	10/14/2020	05/03/2021	09/08/2021	03/14/2022	09/20/2022	04/25/2023	03/09/2020	10/21/2020
Appendix III										
Boron	mg/L	0.608	0.738	0.695	0.776	0.715	0.92	0.851	0.148	0.16
Calcium	mg/L	214	244	248	258	225	280	220	21.1	24.6
Chloride	mg/L	33.9	38.7	33.4	30.3	24.3	24.1	21.4	159	199
Fluoride	mg/L	0.173	0.223	0.185	0.204	0.186	0.193	0.221	0.361	0.429
pH_Field	SU	6.51	6.45	6.48	6.37	6.5	6.29	6.56	7.76	7.79
Sulfate	mg/L	679	700	710	818	730	752	732	220	279
TDS	mg/L	1020	1170	--	--	--	--	--	1100	1540
Appendix IV										
Antimony	mg/L	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.0008	<0.0008
Arsenic	mg/L	0.00362 J	0.0047 J	0.00436	0.00429	0.00358	0.0048	0.00425	0.00719	<0.001
Barium	mg/L	0.0326	0.0381	0.0324	0.0369	0.0317	0.0341	0.0311	0.088	0.0952
Beryllium	mg/L	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<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	<0.0003	<0.0003
Chromium	mg/L	<0.002	<0.002	0.000276 J	0.000252 J	<0.000203	0.000269 J	<0.000203	<0.002	<0.002
Cobalt	mg/L	0.00965	0.0121	0.0112	0.0123	0.0105	0.0095	0.00778	<0.002	<0.002
Combined Radium	pCi/L	0.636 U	0.0343 U	0.5 U	0.711 U	0.655 U	0.61 U	0.735 U	0.875	0.53
Lead	mg/L	<0.001	<0.001	6.88e-005 J	9.5e-005 J	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001
Lithium	mg/L	0.145	0.155	0.153	0.175	0.132	0.158	0.174	0.164	0.156
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.0139	0.0223	0.0166	0.0184	0.0186	0.0318	0.0256	0.00255 J	0.00201 J

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-34H					MR-AP-MW-35H			
		04/21/2021	09/13/2021	03/09/2022	09/19/2022	05/02/2023	03/10/2020	10/13/2020	05/05/2021	09/07/2021
Appendix III										
Boron	mg/L	0.178	0.144	0.107	0.12	0.127	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	28.1	20.2	12.9	13.1	14.9	57.5	64.9	61.5	63.3
Chloride	mg/L	273	216	161	132	108	2.26	1.91	2.57	2.13
Fluoride	mg/L	0.4	0.42	0.302	0.285	0.4	0.16	0.16	0.139	0.155
pH_Field	SU	7.81	8.2	8.09	8.05	7.87	6.69	6.64	6.72	6.58
Sulfate	mg/L	372	257	185	155	137	182	196	184	211
TDS	mg/L	--	--	--	--	--	438	455	--	--
Appendix IV										
Antimony	mg/L	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.0008	<0.0008	<0.000507	<0.000508
Arsenic	mg/L	0.0013	0.000865	0.000674	0.000428	0.00211	0.0139	0.0146	0.0117	0.0129
Barium	mg/L	0.0853	0.0692	0.0615	0.0539	0.0437	0.0349	0.0315	0.0317	0.0289
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<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	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.000203	0.000318 J	0.000208 J	<0.000203	<0.000203	<0.002	<0.002	<0.000203	0.000334 J
Cobalt	mg/L	<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
Combined Radium	pCi/L	0.745 U	0.761 U	0.822 U	1.18 U	0.915 U	0.943	0.0328 U	0.466 U	0.878 U
Lead	mg/L	<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
Lithium	mg/L	0.218	0.188	0.13	0.141	0.163	0.0306	0.0305	0.0298	0.0298
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.00534	0.00634	0.00765	0.00513	0.00568 J	0.00217 J	<0.002	0.0017	0.000963

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-35H			MR-AP-MW-36HR					
		03/08/2022	09/19/2022	04/18/2023	10/27/2020	04/21/2021	09/13/2021	03/16/2022	09/14/2022	04/25/2023
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
Calcium	mg/L	61.6	71.8	60.3	10.9	23.8	31.2	32.6	32.1	34.7
Chloride	mg/L	2.2	2.2	2.28	66.6	274	406	471	439	405
Fluoride	mg/L	0.129	0.13	0.151	0.272	0.412	0.49	0.4	0.342	0.295
pH_Field	SU	6.77	6.23	6.57	7.54	7.72	7.8	7.51	7.48	7.22
Sulfate	mg/L	199	205	191	285	559	628	746	572	519
TDS	mg/L	--	--	--	913	--	--	--	--	--
Appendix IV										
Antimony	mg/L	<0.000508	<0.000508	<0.00071	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071
Arsenic	mg/L	0.0118	0.0135	0.0112	0.00333 J	0.00666	0.00601	0.00633	0.00426	0.00204
Barium	mg/L	0.0274	0.0275	0.028	0.0347	0.0467	0.0518	0.0536	0.0366	0.0293
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.0006	<0.000406	<0.000406	<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
Chromium	mg/L	0.000233 J	0.00021 J	<0.000203	<0.002	<0.000203	0.00041 J	<0.000203	0.000707 J	0.000752 J
Cobalt	mg/L	7.58e-005 J	<6.8e-005	<6.8e-005	<0.002	0.000116 J	8.8e-005 J	0.000142 J	0.000107 J	<6.8e-005
Combined Radium	pCi/L	1.37	0.386 U	0.613 U	0.0202 U	0.74 U	0.572 U	0.417 U	0.748 U	0.619 U
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
Lithium	mg/L	0.0264	0.0284	0.0264	0.161	0.247	0.297	0.294	0.285	0.373
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.00121	0.0011	<0.005075	0.0195	0.0505	0.0711	0.0981	0.095	0.0996

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-37H						MR-AP-MW-31H		
		03/09/2020	10/19/2020	05/03/2021	09/15/2021	03/17/2022	09/27/2022	04/18/2023	10/27/2020	04/27/2021
Appendix III										
Boron	mg/L	0.0385 J	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.0341 J	0.0315 J
Calcium	mg/L	41.7	38.9	40.1	39.6	38.2	36.6	38.1	130	131
Chloride	mg/L	10.7	10.3	10.7	10.6	10.9	10.8	11.2	12.5	11.5
Fluoride	mg/L	0.173	0.178	0.167	0.201	0.132	0.178	0.185	0.14	0.144
pH_Field	SU	7.33	7.32	7.41	7.22	7.12	7.39	7.33	6.95	7.01
Sulfate	mg/L	31.5	32.4	34.8	36.4	36	33.8	35.4	410	404
TDS	mg/L	312	295	--	--	--	--	--	886	--
Appendix IV										
Antimony	mg/L	0.00201 J	0.0015 J	0.00123	0.000979 J	0.00105	0.0006 J	0.00079 J	<0.0008	<0.000507
Arsenic	mg/L	0.0113	0.00192 J	0.00127	0.00127	0.00148	0.000844	0.00073	0.00133 J	0.000721
Barium	mg/L	0.112	0.11	0.101	0.11	0.103	0.105	0.0938	0.0585	0.045
Beryllium	mg/L	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.000406
Cadmium	mg/L	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<6.8e-005
Chromium	mg/L	<0.002	<0.002	0.000234 J	0.000255 J	0.000204 J	<0.000203	<0.000203	<0.002	<0.000203
Cobalt	mg/L	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.002	<6.8e-005
Combined Radium	pCi/L	0.418 U	-0.0717 U	0.651 U	0.886 U	0.173 U	0.253 U	0.497 U	-0.0134 U	0.446 U
Lead	mg/L	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<6.8e-005
Lithium	mg/L	0.0662	0.0635	0.0663	0.066	0.0588	0.0586	0.0583	0.135	0.145
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<6.8e-005	9.74e-005 J	<0.000102	<0.000102	<0.000102	<0.000102	0.00057

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-31H				MR-AP-MW-7S				
		09/13/2021	03/16/2022	09/20/2022	04/24/2023	07/21/2016	09/27/2016	11/01/2016	01/10/2017	02/14/2017
Appendix III										
Boron	mg/L	0.0315 J	0.0311 J	0.0368 J	0.0323 J	0.69	0.669	0.697	0.705	0.722
Calcium	mg/L	130	129	155	125	88.2	79.1	78	85.3	82.7
Chloride	mg/L	13.1	14.1	41.6	13.6	20.6	20.7	21.1	21.3	24
Fluoride	mg/L	0.164	<0.06	0.113 J	0.133	0.203 J	0.138 J	0.08 J	0.034 J	0.17
pH_Field	SU	7.04	6.94	7	6.98	6.51	6.51	6.51	6.52	6.5
Sulfate	mg/L	416	414	403	396	277	258	251	257	250
TDS	mg/L	--	--	--	--	640	612	626	610	608
Appendix IV										
Antimony	mg/L	<0.000508	<0.000508	<0.000508	<0.00071	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Arsenic	mg/L	0.000485	0.000395	0.00044	0.000636	0.00237 J	0.00249 J	0.00239 J	0.00267 J	0.00272 J
Barium	mg/L	0.0443	0.0361	0.0373	0.035	0.0415	0.0355	0.038	0.0369	0.0414
Beryllium	mg/L	<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	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chromium	mg/L	0.000332 J	0.000211 J	0.000332 J	<0.000203	<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	<0.002	<0.002	<0.002	<0.002	<0.002
Combined Radium	pCi/L	0.605 U	0.701 U	0.684 U	0.278 U	0.209 U	0.515 U	0.315 U	0.207 U	0.315 U
Lead	mg/L	<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	0.147	0.117	0.123	0.137	0.148	0.146	0.15	0.141	0.18
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	0.000361	0.00032	0.00118	<0.005075	0.0283	0.029	0.0262	0.028	0.0293

Notes:

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2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
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5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-7S								
		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
Appendix III										
Boron	mg/L	0.727	0.647	0.673	0.697	--	0.692	0.737	0.73	0.743
Calcium	mg/L	81.6	78.6	82.3	81.6	--	81.1	82	103	83.7
Chloride	mg/L	24	25	26	24	--	25	25	22.9	22.7
Fluoride	mg/L	0.2	0.18	0.18	0.22	0.21	0.21	0.25	0.296	0.221
pH_Field	SU	6.4	6.45	6.49	6.56	6.54	6.52	6.56	6.43	6.56
Sulfate	mg/L	260	250	260	240	--	210	220	239	258
TDS	mg/L	582	630	636	618	--	542	558	574	568
Appendix IV										
Antimony	mg/L	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008
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
Barium	mg/L	0.0349	0.0384	0.034	--	0.0381	0.0365	0.0333	0.0402	0.0451
Beryllium	mg/L	<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
Chromium	mg/L	<0.002	<0.002	<0.002	--	0.00207 J	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002
Combined Radium	pCi/L	0.316 U	0.177 U	0.48	--	0.53	0.248 U	0.695	0.148 U	0.864
Lead	mg/L	<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
Mercury	mg/L	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003
Molybdenum	mg/L	0.0284	0.0281	0.0255	--	0.032	0.0278	0.0302	0.0325	0.0349

Notes:

1. mg/L - Milligrams per Liter
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5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-7S	MR-AP-MW-7D							
		03/03/2020	07/21/2016	09/27/2016	11/01/2016	01/10/2017	02/14/2017	04/04/2017	05/16/2017	06/13/2017
Appendix III										
Boron	mg/L	0.74	0.744	0.711	0.745	0.733	0.753	0.755	0.691	0.715
Calcium	mg/L	83.5	115	109	106	107	114	105	105	110
Chloride	mg/L	23.2	21.8	22.1	22.4	22.2	26	26	26	27
Fluoride	mg/L	0.219	0.125 J	0.068 J	0.014 J	<0.01	0.07 J	0.09 J	0.1	0.1
pH_Field	SU	6.55	6.71	6.71	6.74	6.77	6.74	6.66	6.69	6.71
Sulfate	mg/L	295	367	347	342	333	320	350	340	360
TDS	mg/L	600	756	778	746	714	744	746	772	780
Appendix IV										
Antimony	mg/L	<0.0008	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Arsenic	mg/L	0.00237 J	0.00186 J	0.00193 J	0.00177 J	0.00185 J	0.00174 J	0.00157 J	0.0015 J	0.00144 J
Barium	mg/L	0.0383	0.0343	0.0294	0.0316	0.0304	0.0359	0.0295	0.0319	0.0307
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<0.0003	<0.0002	<0.0002	<0.0002	<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
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Combined Radium	pCi/L	0.351 U	0.514	0.798	0.657	0.427 U	0.437 U	0.343 U	0.625	0.152 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	0.158	0.124	0.115	0.117	0.107	0.142	0.137	0.109	0.108
Mercury	mg/L	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	0.0344	0.0155	0.0133	0.012	0.0108	0.0102	0.0089 J	0.00836 J	0.00732 J

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-7D							MR-AP-MW-8S	
		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
Appendix III										
Boron	mg/L	0.734	--	0.727	0.769	0.756	0.764	0.752	1.56	1.55
Calcium	mg/L	108	--	110	114	140	113	117	58.5	71.1
Chloride	mg/L	25	--	27	29	28	27.2	28.6	4.64	8.74
Fluoride	mg/L	0.11	0.1	0.1	0.12	0.156	0.106	0.105	0.471	0.375
pH_Field	SU	6.77	6.75	6.7	6.74	6.63	6.58	6.74	6.7	6.71
Sulfate	mg/L	340	--	340	360	364	371	419	363	446
TDS	mg/L	770	--	730	764	748	660	736	686	828
Appendix IV										
Antimony	mg/L	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0006	0.00062 J
Arsenic	mg/L	--	0.00185 J	0.00148 J	0.00211 J	0.00189 J	0.00197 J	0.00224 J	<0.001	<0.001
Barium	mg/L	--	0.0331	0.032	0.0296	0.0326	0.0361	0.034	0.0233	0.0245
Beryllium	mg/L	--	<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	<0.0003	<0.0003	<0.0003	<0.0002	<0.0002
Chromium	mg/L	--	<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
Combined Radium	pCi/L	--	0.218 U	0.395 U	0.44 U	0.423 U	0.327 U	0.194 U	0.323 U	0.0932 U
Lead	mg/L	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	--	0.1	0.107	0.103	0.0996	0.111	0.109	0.0338 J	0.0369 J
Mercury	mg/L	--	<0.00025	<0.00025	<0.00025	0.000318 J	<0.0003	<0.0003	<0.00025	<0.00025
Molybdenum	mg/L	--	0.00815 J	0.00604 J	0.00618 J	0.00612 J	0.00531 J	0.00727 J	0.0453	0.0485

Notes:

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3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-8S								
		11/01/2016	01/10/2017	02/14/2017	04/04/2017	05/16/2017	06/13/2017	09/19/2017	01/30/2018	05/09/2018
Appendix III										
Boron	mg/L	1.47	1.52	1.46	1.58	1.45	1.59	1.76	--	1.05
Calcium	mg/L	77.2	110	89.3	62.2	57.3	56.6	52.5	--	48.6
Chloride	mg/L	16.2	21.7	14	6.5	4.6	4.6	4.5	--	3.2
Fluoride	mg/L	0.259 J	0.215 J	0.36	0.43	0.43	0.43	0.57	0.55	0.48
pH_Field	SU	6.71	6.66	6.66	6.66	6.68	6.72	6.76	6.79	6.69
Sulfate	mg/L	471	604	460	370	320	330	310	--	240
TDS	mg/L	888	1120	844	726	698	710	698	--	496
Appendix IV										
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	0.000683 J	<0.0006	--	<0.0006	0.000744 J
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001
Barium	mg/L	0.0285	0.0368	0.0337	0.0212	0.0202	0.0179	--	0.0201	0.0195
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003
Chromium	mg/L	<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
Combined Radium	pCi/L	0.0619 U	0.291 U	0.837	0.143 U	0.213 U	0.248 U	--	0.289 U	0.047 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001
Lithium	mg/L	0.0413 J	0.0487 J	0.0574	0.0483 J	0.0329 J	0.0338 J	--	0.0314 J	0.0282 J
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025
Molybdenum	mg/L	0.0393	0.0393	0.0422	0.0535	0.05	0.0454	--	0.0681	0.0259

Notes:

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4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-8S				MR-AP-MW-8D				
		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	2.05	1.53	2.06	0.692	0.916	1.03	1.04	1.01	1.05
Calcium	mg/L	55.2	53.6	56.9	49.3	46.8	52.4	58	81.2	72.1
Chloride	mg/L	4.7	4.06	4.08	13.6	6.35	8.42	13.1	16.8	14
Fluoride	mg/L	0.64	0.531	0.565	0.303	0.26 J	0.225 J	0.151 J	0.095 J	0.24
pH_Field	SU	6.82	6.62	6.78	6.34	6.27	6.4	6.41	6.36	6.34
Sulfate	mg/L	330	315	366	309	321	368	389	483	420
TDS	mg/L	716	596	712	504	592	698	738	772	772
Appendix IV										
Antimony	mg/L	<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	0.00116 J	0.00144 J	0.00132 J	0.00127 J	<0.001
Barium	mg/L	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
Cadmium	mg/L	<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
Cobalt	mg/L	<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	pCi/L	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
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	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	0.000334 J	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	0.0532	0.0298	0.0592	0.00692 J	0.0173	0.0242	0.0228	0.0195	0.0197

Notes:

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5. 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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ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-8D								
		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
Appendix III										
Boron	mg/L	1.15	1.13	1.13	1.13	--	0.76	1.16	0.893	1.05
Calcium	mg/L	55.7	53.7	51.6	51.5	--	50	51.3	54.1	55.2
Chloride	mg/L	8.2	7.1	7	9.1	--	10	9	11.2	10.8
Fluoride	mg/L	0.3	0.29	0.3	0.35	0.35	0.26	0.36	0.258	0.214
pH_Field	SU	6.41	6.36	6.43	6.32	6.46	6.11	6.26	5.91	6.09
Sulfate	mg/L	320	300	300	350	--	370	400	461	439
TDS	mg/L	662	664	632	700	--	672	694	724	764
Appendix IV										
Antimony	mg/L	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008
Arsenic	mg/L	<0.001	<0.001	<0.001	--	0.00161 J	0.00168 J	0.0012 J	0.00146 J	0.00146 J
Barium	mg/L	0.0311	0.0367	0.0344	--	0.0379	0.0311	0.0302	0.0295	0.0323
Beryllium	mg/L	<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
Chromium	mg/L	<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
Combined Radium	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
Lead	mg/L	<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
Mercury	mg/L	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	0.000303 J	<0.0003
Molybdenum	mg/L	0.0236	0.027	0.026	--	0.033	0.00842 J	0.0168	0.00699 J	0.0104

Notes:

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4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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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ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-8D	MR-AP-MW-9S							
		03/03/2020	07/20/2016	09/27/2016	11/02/2016	01/12/2017	02/15/2017	04/06/2017	05/17/2017	06/14/2017
Appendix III										
Boron	mg/L	0.742	0.295	0.282	0.293	0.358	0.398	0.367	0.358	0.406
Calcium	mg/L	52.7	91.9	79.9	83.8	62.5	20.9	18.6	57.1	50.7
Chloride	mg/L	15.1	9.28	9.44	10.2	8.44	2.7	5.6	8.3	6.6
Fluoride	mg/L	0.151	0.139 J	0.086 J	0.047 J	<0.01	0.17	0.2	0.14	0.16
pH_Field	SU	5.83	5.45	5.46	5.37	5.46	5.96	6.07	5.59	5.71
Sulfate	mg/L	500	793	674	794	555	86	65	410	410
TDS	mg/L	742	1250	1120	1150	866	221	195	782	646
Appendix IV										
Antimony	mg/L	<0.0008	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Arsenic	mg/L	0.00166 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium	mg/L	0.025	0.0201	0.0175	0.0175	0.0224	0.0153	0.0132	0.0314	0.0316
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<0.0003	<0.0002	<0.0002	<0.0002	<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
Cobalt	mg/L	0.007	0.00995 J	0.00686 J	0.0076 J	0.00419 J	<0.002	<0.002	<0.002	<0.002
Combined Radium	pCi/L	0.311 U	0.291 U	0.639	0.851	0.658 U	0.76	0.122 U	0.781 U	0.285 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	0.0672	0.188	0.167	0.181	0.151	0.0385 J	0.0343 J	0.132	0.103
Mercury	mg/L	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	0.00259 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002

Notes:

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2. pCi/L - picocuries per Liter
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5. 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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ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-9S							MR-AP-MW-9D	
		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
Appendix III										
Boron	mg/L	0.409	--	0.399	0.437	0.757	0.438	1.41	0.644	0.641
Calcium	mg/L	50.7	--	57.8	51.7	325	77.6	66	60.6	61.2
Chloride	mg/L	7.1	--	4.2	7.5	5.42	7.56	4.18	8.7	8.99
Fluoride	mg/L	0.19	0.19	0.22	0.22	0.277	0.173	0.287	0.155 J	0.1 J
pH_Field	SU	5.73	5.88	5.86	5.76	5.82	5.53	5.99	5.76	5.75
Sulfate	mg/L	380	--	360	340	513	553	425	475	474
TDS	mg/L	664	--	646	616	838	892	650	792	780
Appendix IV										
Antimony	mg/L	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0006	<0.0006
Arsenic	mg/L	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00202 J	0.00176 J
Barium	mg/L	--	0.0188	0.0408	0.0241	0.0458	0.0332	0.0268	0.0144	0.0141
Beryllium	mg/L	--	<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	0.000319 J	<0.0003	<0.0003	<0.0002	<0.0002
Chromium	mg/L	--	<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	0.00264 J	<0.002	0.0163	0.0155
Combined Radium	pCi/L	--	0.162 U	0.583	0.67	0.471 U	0.477 U	0.192 U	0.466 U	0.0728 U
Lead	mg/L	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	--	0.0577	0.1	0.119	0.142	0.138	0.117	0.0779	0.0709
Mercury	mg/L	--	<0.00025	<0.00025	<0.00025	0.000345 J	<0.0003	<0.0003	<0.00025	<0.00025
Molybdenum	mg/L	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002

Notes:

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5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-9D								
		11/01/2016	01/10/2017	02/15/2017	04/04/2017	05/17/2017	06/13/2017	09/19/2017	01/30/2018	05/08/2018
Appendix III										
Boron	mg/L	0.671	0.696	0.708	0.716	0.735	0.695	0.716	--	0.722
Calcium	mg/L	58	62.6	68.2	65.4	67.3	65.8	66	--	64.6
Chloride	mg/L	9.34	9.94	13	13	14	14	13	--	12
Fluoride	mg/L	0.046 J	<0.01	0.11	0.11	0.13	0.14	0.16	0.09 J	0.05 J
pH_Field	SU	5.71	5.76	5.69	5.72	5.64	5.69	5.75	5.79	5.71
Sulfate	mg/L	470	480	460	530	450	510	470	--	440
TDS	mg/L	800	832	804	808	822	856	824	--	810
Appendix IV										
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006
Arsenic	mg/L	0.0021 J	0.0022 J	0.00232 J	0.00218 J	0.00207 J	0.00197 J	--	0.0023 J	0.00211 J
Barium	mg/L	0.0132	0.0125	0.0129	0.0117	0.011	0.0108	--	0.0148	0.0124
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002
Cobalt	mg/L	0.0168	0.0164	0.0192	0.0222	0.0194	0.0193	--	0.0157	0.0179
Combined Radium	pCi/L	0.16 U	0.747	0.0228 U	0.358 U	-0.25 U	0.828	--	0.0739 U	0.313 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001
Lithium	mg/L	0.0733	0.0743	0.0896	0.089	0.0783	0.0723	--	0.0693	0.0738
Mercury	mg/L	<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

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-9D				MR-AP-MW-10				
		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	0.752	0.758	0.75	0.769	3.36	3.18	3.32	3.05	2.87
Calcium	mg/L	63.8	66	67.7	70.8	132	127	122	124	125
Chloride	mg/L	11	11.2	10.2	10.3	6.41	6.3	6.36	6.65	9.2
Fluoride	mg/L	0.17	0.205	0.173	0.158	0.439	0.336	0.26 J	0.21 J	0.34
pH_Field	SU	5.71	5.62	5.44	5.71	6.73	6.82	6.78	6.8	6.74
Sulfate	mg/L	340	486	490	585	787	714	741	731	670
TDS	mg/L	776	802	774	816	1440	1310	1360	1310	1270
Appendix IV										
Antimony	mg/L	<0.0008	<0.0008	<0.0008	<0.0008	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Arsenic	mg/L	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	0.0108	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
Cadmium	mg/L	<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	0.0112	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	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	pCi/L	0.419 U	0.25 U	0.74	0.874	0.0598 U	0.82	0.37 U	0.668	0.36 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	0.0736	0.0724	0.0801	0.0802	0.189	0.171	0.181	0.172	0.209
Mercury	mg/L	<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	0.115	0.0985	0.0971	0.0866	0.0895

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		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
Appendix III										
Boron	mg/L	2.87	2.71	2.67	3.08	--	3.04	3.46	3.61	4.1
Calcium	mg/L	125	124	129	133	--	132	164	201	178
Chloride	mg/L	8	8.1	8.1	7.7	--	7.4	7.4	7.66	6.65
Fluoride	mg/L	0.38	0.33	0.34	0.43	0.42	0.42	0.49	0.433	0.445
pH_Field	SU	6.73	6.73	6.71	6.8	6.81	6.77	6.86	6.91	6.93
Sulfate	mg/L	640	620	950	660	--	680	750	950	847
TDS	mg/L	1320	1280	1310	1350	--	1310	1430	1460	1550
Appendix IV										
Antimony	mg/L	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008
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
Barium	mg/L	0.0116	0.0132	0.0131	--	0.0138	0.0142	0.0126	0.0154	0.0185
Beryllium	mg/L	<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
Chromium	mg/L	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	0.00226 J	0.0021 J	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002
Combined Radium	pCi/L	0.519	-0.497 U	0.147 U	--	0.82	0.383 U	0.193 U	0.601	0.437 U
Lead	mg/L	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	0.203	0.163	0.155	--	0.163	0.178	0.184	0.186	0.197
Mercury	mg/L	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003
Molybdenum	mg/L	0.0812	0.0741	0.0719	--	0.0943	0.069	0.0951	0.121	0.158

Notes:

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2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-10								MR-AP-MW-11
		03/09/2020	10/19/2020	05/03/2021	09/15/2021	03/17/2022	05/19/2022	09/26/2022	05/03/2023	07/25/2016
Appendix III										
Boron	mg/L	4.7	4.44	4.45	4.8	5.81	6.17	7.39	6.84	0.0282 J
Calcium	mg/L	222	149	165	152	76.4	143	184	118	164
Chloride	mg/L	7.47	6.03	6.38	6.39	4.75	8.19	8.6	7.08	8.3
Fluoride	mg/L	0.517	0.608	0.599	0.727	1.86	1.24	1.12	0.902	0.155 J
pH_Field	SU	7.03	7.05	7.01	7.04	7.24	6.99	7.16	7.15	6.74
Sulfate	mg/L	1010	781	917	910	735	1390	1560	1250	637
TDS	mg/L	1720	1430	--	--	--	--	--	--	456
Appendix IV										
Antimony	mg/L	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.00071	<0.0006
Arsenic	mg/L	0.0018 J	0.00186 J	0.00142	0.0016	0.061	0.0428	0.0323	0.0241	<0.001
Barium	mg/L	0.0175	0.0168	0.0147	0.017	0.0106	0.0191	0.0169	0.0162	0.052
Beryllium	mg/L	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006
Cadmium	mg/L	<0.0003	<0.0003	<6.8e-005	<6.8e-005	8.62e-005 J	<6.8e-005	9.82e-005 J	<6.8e-005	<0.0002
Chromium	mg/L	<0.002	<0.002	<0.000203	0.000473 J	0.00139	<0.000203	0.000436 J	0.000411 J	<0.002
Cobalt	mg/L	<0.002	<0.002	0.0003	0.000301	0.000905	0.00141	0.00137	0.00107	<0.002
Combined Radium	pCi/L	0.906	0.387 U	0.821 U	1.43 U	0.232 U	--	0.502 U	0.952 U	0.604 U
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
Lithium	mg/L	0.225	0.166	0.19	0.187	0.174	0.235	0.267	0.354	0.119
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025
Molybdenum	mg/L	0.223	0.305	0.296	0.352	0.751	0.687	0.74	0.665	<0.002

Notes:

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3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
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5. 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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ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-11								
		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
Appendix III										
Boron	mg/L	0.0253 J	0.0266 J	0.0268 J	0.0263 J	--	0.0252 J	0.0319 J	0.026 J	0.0253 J
Calcium	mg/L	164	158	163	166	--	166	160	166	165
Chloride	mg/L	7.94	7.32	6.29	9.1	--	7	7.1	7.9	6.8
Fluoride	mg/L	0.097 J	0.038 J	<0.01	0.13	--	0.14	0.14	0.14	0.16
pH_Field	SU	6.74	6.71	6.61	6.58	6.57	6.56	6.56	6.5	6.55
Sulfate	mg/L	612	619	654	--	650	690	590	620	630
TDS	mg/L	1170	1160	1180	1130	--	1140	1080	1220	1140
Appendix IV										
Antimony	mg/L	<0.0006	<0.0006	<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	--
Barium	mg/L	0.0398	0.0375	0.0291	0.0329	--	0.0292	0.0247	0.0263	--
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	--
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	--
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	--
Cobalt	mg/L	<0.002	<0.002	0.00316 J	0.00227 J	--	<0.002	<0.002	<0.002	--
Combined Radium	pCi/L	0.65	0.458 U	0.308 U	-0.0581 U	--	0.288 U	0.119 U	0.129 U	--
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	--
Lithium	mg/L	0.108	0.116	0.12	0.149	--	0.154	0.128	0.118	--
Mercury	mg/L	<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	--

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
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5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-11								
		01/30/2018	05/08/2018	10/09/2018	05/01/2019	08/28/2019	03/03/2020	10/20/2020	04/21/2021	09/14/2021
Appendix III										
Boron	mg/L	--	<0.02	0.0262 J	<0.0609	<0.03	0.0308 J	0.0357 J	<0.03	<0.03
Calcium	mg/L	--	132	121	136	138	179	151	148	147
Chloride	mg/L	--	7.3	6.5	6.46	6.4	6.2	6.33	5.99	6.33
Fluoride	mg/L	0.12	0.13	0.15	0.118	0.13	0.134	0.126	0.111	0.136
pH_Field	SU	7.09	7.04	7.13	6.64	7.22	6.6	7.26	6.54	6.67
Sulfate	mg/L	--	550	450	549	605	618	575	559	588
TDS	mg/L	--	1070	1010	996	1050	1070	1050	--	--
Appendix IV										
Antimony	mg/L	<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	8.14e-005 J	8.05e-005 J
Barium	mg/L	0.0366	0.0347	0.0322	0.04	0.0387	0.029	0.0414	0.0401	0.0392
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406
Cadmium	mg/L	<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	<0.000203	0.000374 J
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005
Combined Radium	pCi/L	0.31 U	0.0757 U	0.5	0.295 U	0.358 U	0.227 U	0.0474 U	0.309 U	0.279 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005
Lithium	mg/L	0.229	0.246	0.307	0.327	0.318	0.255	0.297	0.421	0.374
Mercury	mg/L	<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	0.000741	0.000746

Notes:

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2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-11			MR-AP-MW-12					
		03/16/2022	09/20/2022	05/03/2023	07/20/2016	09/27/2016	11/01/2016	01/11/2017	02/15/2017	04/04/2017
Appendix III										
Boron	mg/L	0.0357 J	0.0457 J	0.0402 J	2.36	2.14	2.21	2.04	2.12	2.51
Calcium	mg/L	173	209	231	178	165	160	170	173	167
Chloride	mg/L	7.08	7.52	6.53	8.05	8.37	8.62	8.33	9.9	9.5
Fluoride	mg/L	0.107 J	0.0923 J	0.172	0.701	0.597	0.502	0.472	0.59	0.67
pH_Field	SU	6.94	6.7	6.52	6.63	6.59	6.6	6.59	6.59	6.54
Sulfate	mg/L	707	678	716	895	841	829	855	860	1100
TDS	mg/L	--	--	--	1620	1560	1580	1570	1470	1840
Appendix IV										
Antimony	mg/L	<0.000508	<0.000508	<0.00071	0.00069 J	0.000757 J	<0.0006	<0.0006	<0.0006	0.000652 J
Arsenic	mg/L	0.000117 J	0.00012 J	<0.000112	0.00169 J	0.00187 J	0.00203 J	0.00196 J	0.00189 J	0.00186 J
Barium	mg/L	0.031	0.0318	0.0218	0.0243	0.0273	0.0211	0.0208	0.0227	0.021
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<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
Chromium	mg/L	0.000274 J	0.000272 J	<0.000203	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	<6.8e-005	7.68e-005 J	<6.8e-005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Combined Radium	pCi/L	0.579 U	0.441 U	0.618 U	0.271 U	0.858	0.456 U	0.624 U	0.821	0.258 U
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	0.172	0.173	0.144	0.229	0.198	0.204	0.205	0.274	0.279
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	0.000387	0.00148	<0.005075	0.0267	0.0362	0.0329	0.0322	0.0374	0.036

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-12								
		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
Appendix III										
Boron	mg/L	2.54	2.83	3.76	--	5.61	6.35	7.06	7.52	7.42
Calcium	mg/L	169	177	171	--	173	174	152	138	115
Chloride	mg/L	8.1	8	7.7	--	6.8	6.9	7.27	7.52	7.33
Fluoride	mg/L	0.63	0.63	0.66	0.69	0.65	0.85	0.916	0.929	0.978
pH_Field	SU	6.56	6.55	6.53	6.59	6.49	7.07	6.63	6.52	6.5
Sulfate	mg/L	900	1100	1100	--	1400	1500	1780	1580	1630
TDS	mg/L	1660	1960	2030	--	2400	2630	2850	2420	2540
Appendix IV										
Antimony	mg/L	0.000849 J	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008
Arsenic	mg/L	0.00167 J	0.00161 J	--	0.00189 J	0.00222 J	0.0024 J	0.00297 J	0.00353 J	0.00463 J
Barium	mg/L	0.0229	0.0221	--	0.0224	0.0194	0.0167	0.0177	0.015	0.0157
Beryllium	mg/L	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Chromium	mg/L	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	<0.002	<0.002	--	<0.002	0.00211 J	<0.002	<0.002	<0.002	<0.002
Combined Radium	pCi/L	0.382 U	0.746	--	0.366 U	0.854 U	0.717	0.577 U	1.57	0.17 U
Lead	mg/L	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	0.206	0.205	--	0.178	0.199	0.19	0.158	0.146	0.12
Mercury	mg/L	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.0365	0.0368	--	0.113	0.119	0.31	0.646	0.49	0.858

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-12						MR-AP-MW-13D		
		05/05/2021	09/07/2021	03/17/2022	05/19/2022	09/26/2022	05/03/2023	07/20/2016	09/27/2016	11/01/2016
Appendix III										
Boron	mg/L	8.01	7.19	7.07	6.39	4.96	5.38	0.0601 J	0.0979 J	0.108
Calcium	mg/L	107	128	102	94.2	80.7	30.3	49.9	66.5	51.8
Chloride	mg/L	8.01	8.14	8.05	7.92	7.51	5.56	10.4	13.8	12
Fluoride	mg/L	0.958	0.843	1.21	1.23	0.989	1.18	0.149 J	0.076 J	0.028 J
pH_Field	SU	6.5	6.46	6.65	6.42	6.71	6.74	6.75	6.49	6.5
Sulfate	mg/L	1510	1850	1730	1510	845	513	58.9	115	87.8
TDS	mg/L	--	--	--	--	--	--	307	446	398
Appendix IV										
Antimony	mg/L	<0.000507	0.000558 J	0.000583 J	0.000656 J	<0.000508	<0.00071	<0.0006	<0.0006	<0.0006
Arsenic	mg/L	0.00514	0.00507	0.0078	0.00814	0.00709	0.00828	0.00239 J	0.00241 J	0.00315 J
Barium	mg/L	0.0136	0.0191	0.0149	0.0162	0.019	0.0176	0.0827	0.0955	0.0744
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	9.27e-005 J	0.000123 J	0.00016 J	9.14e-005 J	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002
Chromium	mg/L	<0.000203	0.000836 J	0.00048 J	0.000772 J	0.00215	0.00034 J	<0.002	<0.002	<0.002
Cobalt	mg/L	0.00141	0.00165	0.00116	0.00114	0.00142	0.000717	<0.002	0.0021 J	0.00214 J
Combined Radium	pCi/L	0.446 U	0.521 U	0.656 U	--	0.62 U	0.659 U	0.324 U	0.385 U	0.119 U
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001
Lithium	mg/L	0.124	0.176	0.104	0.127	0.233	0.077	0.0382 J	0.0434 J	0.0442 J
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	0.662	0.821	1.17	1.06	0.555	0.383	<0.002	<0.002	<0.002

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-13D								
		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	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	47.2	50.7	48.9	48.7	49.2	47.3	--	47.3	44.6
Chloride	mg/L	11.7	15	13	14	14	13	--	14	14
Fluoride	mg/L	<0.01	0.1	0.12	0.13	0.13	0.11	0.13	0.14	0.18
pH_Field	SU	6.64	6.61	6.66	6.7	6.69	6.76	6.81	6.72	6.72
Sulfate	mg/L	87.1	82	82	66	79	69	--	70	54
TDS	mg/L	338	342	328	336	319	315	--	326	283
Appendix IV										
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008
Arsenic	mg/L	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	0.0614	0.0741	0.0668	0.0725	0.0812	--	0.0843	0.078	0.0712
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003
Chromium	mg/L	<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
Combined Radium	pCi/L	0.324 U	0.393 U	0.263 U	0.555 U	0.305 U	--	0.461	0.441 U	0.683
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001
Lithium	mg/L	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	<0.00025	<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

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-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
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
Calcium	mg/L	46	47.3	43.2	15.5	14.3	14.3	15.1	15.7	15.1
Chloride	mg/L	14.7	13.4	11.7	8.49	7.85	7.7	6.9	9.4	7.5
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
pH_Field	SU	6.67	6.8	6.68	5.63	5.63	5.58	5.56	5.58	5.53
Sulfate	mg/L	92.4	82.7	62.1	125	116	108	128	110	120
TDS	mg/L	323	307	288	319	306	305	308	305	315
Appendix IV										
Antimony	mg/L	<0.0008	<0.0008	<0.0008	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
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
Barium	mg/L	0.0726	0.0876	0.088	0.021	0.0252	0.0201	0.0183	0.0212	0.0175
Beryllium	mg/L	<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
Chromium	mg/L	<0.002	0.00264 J	0.0247	<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
Combined Radium	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
Lead	mg/L	<0.001	<0.001	0.00129 J	<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
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<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

Notes:

1. mg/L - Milligrams per Liter
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3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-13S								
		05/17/2017	06/13/2017	09/19/2017	01/31/2018	05/08/2018	10/09/2018	04/24/2019	08/29/2019	03/09/2020
Appendix III										
Boron	mg/L	0.095 J	0.0938 J	0.108	--	0.101	0.106	0.137 J	0.11	0.1
Calcium	mg/L	16.1	16.2	15.9	--	16.7	15.8	16	17.6	16.6
Chloride	mg/L	8.9	9.1	10	--	11	10	9.4	9.33	7.17
Fluoride	mg/L	0.09 J	0.09 J	0.11	0.09 J	0.09 J	0.12	0.161	0.103	0.119
pH_Field	SU	5.53	5.57	5.65	5.67	5.6	5.64	5.65	5.67	5.58
Sulfate	mg/L	110	120	120	--	120	120	131	137	129
TDS	mg/L	335	331	328	--	326	304	306	323	329
Appendix IV										
Antimony	mg/L	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008
Arsenic	mg/L	0.00306 J	0.00337 J	--	0.00394 J	0.00384 J	0.00362 J	0.00362 J	0.00453 J	0.00403 J
Barium	mg/L	0.0182	0.0195	--	0.0207	0.0202	0.018	0.0217	0.0247	0.0198
Beryllium	mg/L	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Chromium	mg/L	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	0.0209	0.0214	--	0.0186	0.0208	0.0209	0.0237	0.0228	0.0244
Combined Radium	pCi/L	-0.25 U	0.412	--	0.175 U	0.592	0.657	0.289 U	0.1 U	0.444 U
Lead	mg/L	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	0.0841	0.0789	--	0.0725	0.0805	0.0777	0.0788	0.0845	0.0871
Mercury	mg/L	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<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

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-14								
		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
Appendix III										
Boron	mg/L	0.115	0.135	0.153	0.19	0.148	0.129	0.157	0.14	0.115
Calcium	mg/L	30.5	29.3	28.6	30.3	31.1	31.7	32.8	33.4	33.6
Chloride	mg/L	6.47	6.48	6.5	6.4	7.8	7.6	7.8	7.5	7.5
Fluoride	mg/L	0.182 J	0.124 J	0.074 J	0.028 J	0.17	0.17	0.17	0.17	<0.032
pH_Field	SU	6.35	6.36	6.31	6.28	6.27	6.25	6.33	6.3	6.43
Sulfate	mg/L	39.9	42.2	42.7	45.5	39	41	37	43	41
TDS	mg/L	207	211	213	219	199	209	213	217	230
Appendix IV										
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<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	--
Barium	mg/L	0.0847	0.0926	0.076	0.0727	0.0796	0.0663	0.0762	0.0671	--
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--
Chromium	mg/L	<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	--
Combined Radium	pCi/L	0.386 U	0.226 U	0.321 U	-0.00596 U	0.202 U	0.314 U	0.359 U	0.096 U	--
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--
Lithium	mg/L	0.0206 J	0.0212 J	0.0221 J	0.0226 J	0.0225 J	0.0221 J	0.0213 J	0.0203 J	--
Mercury	mg/L	<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	--

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS					
		MR-AP-MW-14					
		01/30/2018	05/08/2018	10/09/2018	04/24/2019	08/28/2019	03/04/2020
Appendix III							
Boron	mg/L	--	0.102	0.118	0.121 J	0.126	0.122
Calcium	mg/L	--	34	32.8	33.6	36.5	34.2
Chloride	mg/L	--	7.6	7.6	7.29	7.3	7.6
Fluoride	mg/L	0.17	0.18	0.21	0.22	0.192	0.184
pH_Field	SU	6.4	6.38	6.41	6.44	6.31	6.38
Sulfate	mg/L	--	42	41	47.2	51.8	45.2
TDS	mg/L	--	224	213	218	213	232
Appendix IV							
Antimony	mg/L	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium	mg/L	0.0772	0.0753	0.0623	0.0723	0.0784	0.0632
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Combined Radium	pCi/L	0.774	0.65	0.631	0.252 U	-0.0208 U	0.637
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	0.0183 J	0.0205 J	0.0195 J	<0.0203	0.0213	0.0204
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-21								
		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
Appendix IV										
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<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

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GS-AP-MW-8								
		08/03/2016	09/21/2016	10/25/2016	12/13/2016	02/06/2017	03/28/2017	04/24/2017	06/07/2017	08/21/2017
Appendix IV										
Selenium	mg/L	<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	--

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GS-AP-MW-8								
		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 IV										
Selenium	mg/L	<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	<6.8e-005	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GS-AP-MW-8			MR-AP-MW-22S					
		02/16/2022	08/02/2022	03/27/2023	10/14/2020	04/20/2021	06/16/2021	09/15/2021	03/16/2022	09/21/2022
Appendix IV										
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.002	<0.000507	<0.000508	<0.000508	<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

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-	MR-AP-MW-22I							MR-AP-MW-
		05/03/2023	10/20/2020	04/20/2021	06/16/2021	09/15/2021	03/16/2022	09/21/2022	05/03/2023	10/26/2020
Appendix IV										
Selenium	mg/L	<0.000508	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002
Thallium	mg/L	<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

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-22D						MR-AP-MW-23		
		04/27/2021	06/16/2021	09/14/2021	03/17/2022	09/21/2022	05/03/2023	03/09/2020	04/09/2020	10/14/2020
Appendix IV										
Selenium	mg/L	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002
Thallium	mg/L	<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 value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-23					GS-AP-MW-17V			
		05/05/2021	09/15/2021	03/15/2022	09/14/2022	05/01/2023	02/20/2019	09/24/2019	03/25/2020	09/23/2020
Appendix IV										
Selenium	mg/L	<0.000507	<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	<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 value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GS-AP-MW-17V						MR-AP-MW-23A		
		02/02/2021	08/02/2021	02/14/2022	05/11/2022	08/09/2022	03/22/2023	10/14/2020	04/27/2021	06/16/2021
Appendix IV										
Selenium	mg/L	<0.000507	<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	<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 value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-23A				MR-AP-MW-1				
		09/15/2021	03/16/2022	09/14/2022	05/01/2023	07/25/2016	09/26/2016	11/02/2016	01/11/2017	02/13/2017
Appendix IV										
Selenium	mg/L	<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	<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 value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-1								
		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
Appendix IV										
Selenium	mg/L	--	<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

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-1								MR-AP-MW-2
		08/27/2019	03/09/2020	10/19/2020	04/20/2021	09/08/2021	03/15/2022	09/19/2022	05/02/2023	07/25/2016
Appendix IV										
Selenium	mg/L	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.002
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-2								
		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
Appendix IV										
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002
Thallium	mg/L	0.000214 J	<0.0002	<0.0002	0.000219 J	0.000202 J	<0.0002	0.000266 J	--	<0.0002

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-2								
		05/09/2018	10/09/2018	05/01/2019	08/27/2019	03/03/2020	10/21/2020	04/26/2021	09/14/2021	03/16/2022
Appendix IV										
Selenium	mg/L	<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	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-2		MR-AP-MW-3S						
		09/26/2022	05/02/2023	07/19/2016	09/26/2016	10/31/2016	01/09/2017	02/13/2017	03/29/2017	04/03/2017
Appendix IV										
Selenium	mg/L	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002
Thallium	mg/L	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-3S								
		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
Appendix IV										
Selenium	mg/L	<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

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-3S						MR-AP-MW-3D		
		10/13/2020	05/05/2021	09/07/2021	03/16/2022	09/19/2022	05/02/2023	07/19/2016	09/26/2016	10/31/2016
Appendix IV										
Selenium	mg/L	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002
Thallium	mg/L	<0.0002	<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 value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-3D								
		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 IV										
Selenium	mg/L	<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

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-3D								
		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
Appendix IV										
Selenium	mg/L	<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	<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 value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-3D	MR-AP-MW-4							
		05/02/2023	07/19/2016	09/27/2016	11/01/2016	01/09/2017	02/13/2017	03/30/2017	04/04/2017	05/16/2017
Appendix IV										
Selenium	mg/L	<0.000508	<0.002	0.0023 J	<0.002	0.00278 J	0.00291 J	--	0.00343 J	0.003 J
Thallium	mg/L	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-4								
		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
Appendix IV										
Selenium	mg/L	0.00255 J	--	0.00273 J	<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

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-4					MR-AP-MW-5			
		04/26/2021	09/01/2021	03/15/2022	09/26/2022	05/02/2023	07/26/2016	09/28/2016	11/02/2016	01/10/2017
Appendix IV										
Selenium	mg/L	0.00112	0.000772 J	<0.000508	<0.000508	0.000539 J	<0.002	<0.002	<0.002	<0.002
Thallium	mg/L	<6.8e-005	<6.8e-005	7.05e-005 J	<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 value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-5								
		02/14/2017	04/03/2017	05/17/2017	06/12/2017	09/18/2017	01/31/2018	05/09/2018	10/08/2018	04/23/2019
Appendix IV										
Selenium	mg/L	<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

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-5								MR-AP-PZ-5
		08/28/2019	03/02/2020	10/21/2020	05/03/2021	09/08/2021	03/14/2022	09/20/2022	04/25/2023	07/26/2016
Appendix IV										
Selenium	mg/L	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.002
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-PZ-5								
		09/28/2016	11/02/2016	01/12/2017	02/13/2017	03/30/2017	04/03/2017	05/17/2017	06/12/2017	09/18/2017
Appendix IV										
Selenium	mg/L	<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	--

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-PZ-5								
		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 IV										
Selenium	mg/L	<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	<6.8e-005	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-PZ-5			MR-AP-MW-6					
		03/14/2022	09/20/2022	04/25/2023	07/26/2016	09/28/2016	11/01/2016	01/09/2017	02/13/2017	03/29/2017
Appendix IV										
Selenium	mg/L	<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	<0.0002	<0.0002	<0.0002	<0.0002	--

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-6								
		04/03/2017	05/16/2017	06/12/2017	09/18/2017	01/31/2018	05/09/2018	10/08/2018	04/23/2019	08/28/2019
Appendix IV										
Selenium	mg/L	<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

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS									
		MR-AP-MW-6						MR-AP-MW-7SR			
		03/03/2020	10/20/2020	04/28/2021	09/01/2021	03/16/2022	09/21/2022	04/25/2023	10/20/2020	04/27/2021	
Appendix IV											
Selenium	mg/L	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.000507
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

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-7SR				MR-AP-MW-7DR				
		09/01/2021	03/08/2022	09/20/2022	04/24/2023	10/20/2020	04/27/2021	09/01/2021	03/08/2022	09/20/2022
Appendix IV										
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.000507	<0.000508	<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

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS									
		MR-AP-MW-	MR-AP-MW-9SR						MR-AP-MW-9DR		
		04/24/2023	10/15/2020	04/27/2021	09/01/2021	03/08/2022	09/21/2022	05/03/2023	10/15/2020	04/27/2021	
Appendix IV											
Selenium	mg/L	<0.000508	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.000507
Thallium	mg/L	<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

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-9DR				MR-AP-MW-13SR				
		09/01/2021	03/08/2022	09/21/2022	05/03/2023	10/20/2020	04/21/2021	09/07/2021	03/09/2022	09/19/2022
Appendix IV										
Selenium	mg/L	<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	<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 value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS									
		MR-AP-MW-	MR-AP-MW-13DR						MR-AP-MW-14R		
		04/18/2023	10/20/2020	04/21/2021	09/07/2021	03/09/2022	09/19/2022	04/18/2023	10/20/2020	04/21/2021	
Appendix IV											
Selenium	mg/L	<0.000508	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.000507
Thallium	mg/L	0.000165 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

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-14R				MR-AP-MW-15				
		09/13/2021	03/09/2022	09/26/2022	05/02/2023	07/19/2016	09/26/2016	10/31/2016	01/09/2017	02/14/2017
Appendix IV										
Selenium	mg/L	<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	<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 value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-15								
		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 IV										
Selenium	mg/L	<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

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS									
		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	07/19/2016	09/26/2016	
Appendix IV											
Selenium	mg/L	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	0.00341 J
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

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-16								
		10/31/2016	01/09/2017	02/14/2017	04/03/2017	05/16/2017	06/12/2017	09/19/2017	01/30/2018	05/07/2018
Appendix IV										
Selenium	mg/L	<0.002	0.00273 J	0.00281 J	0.00262 J	<0.002	<0.002	--	<0.002	0.00204 J
Thallium	mg/L	<0.0002	0.000242 J	<0.0002	0.000226 J	<0.0002	<0.0002	--	<0.0002	0.0003 J

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-16								
		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
Appendix IV										
Selenium	mg/L	<0.002	<0.002	<0.002	0.00271 J	0.00351 J	0.000975 J	0.00629	0.00171	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	7.18e-005 J	<6.8e-005	7.15e-005 J	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-16	MR-AP-MW-4V							
		04/19/2023	03/05/2019	08/27/2019	03/04/2020	10/14/2020	04/26/2021	09/01/2021	03/15/2022	09/26/2022
Appendix IV										
Selenium	mg/L	0.00616	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508
Thallium	mg/L	<6.8e-005	<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 value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-4V	MR-AP-MW-6V							
		05/02/2023	03/05/2019	08/28/2019	12/19/2019	03/03/2020	10/19/2020	04/28/2021	09/08/2021	03/16/2022
Appendix IV										
Selenium	mg/L	0.000535 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-6V		MR-AP-MW-17H						
		09/26/2022	04/24/2023	03/06/2019	08/27/2019	03/10/2020	10/13/2020	05/05/2021	09/07/2021	03/08/2022
Appendix IV										
Selenium	mg/L	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<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 value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-17H		MR-AP-MW-18H						
		09/14/2022	04/19/2023	03/06/2019	08/27/2019	03/10/2020	10/13/2020	05/05/2021	09/14/2021	03/08/2022
Appendix IV										
Selenium	mg/L	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<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 value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-18H		MR-AP-MW-19HA						
		09/21/2022	05/02/2023	03/09/2020	10/14/2020	04/20/2021	09/13/2021	03/09/2022	09/14/2022	05/01/2023
Appendix IV										
Selenium	mg/L	<0.000508	<0.000508	0.00512 J	<0.002	<0.000507	<0.000508	<0.000508	<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

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-20H								
		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
Appendix IV										
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<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

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-20HS								
		03/06/2019	09/03/2019	03/10/2020	10/19/2020	05/03/2021	09/08/2021	03/09/2022	09/21/2022	04/19/2023
Appendix IV										
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<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

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-27HR						MR-AP-MW-28H		
		10/26/2020	05/03/2021	09/14/2021	03/14/2022	09/21/2022	04/25/2023	03/09/2020	10/19/2020	04/20/2021
Appendix IV										
Selenium	mg/L	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.000507
Thallium	mg/L	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<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 value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-28H				MR-AP-MW-30H				
		09/13/2021	03/14/2022	09/20/2022	04/19/2023	03/10/2020	10/20/2020	04/21/2021	09/13/2021	03/16/2022
Appendix IV										
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	0.00228 J	<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	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-30H		MR-AP-MW-32H						
		09/19/2022	04/26/2023	03/10/2020	10/15/2020	04/28/2021	09/14/2021	03/09/2022	09/21/2022	04/19/2023
Appendix IV										
Selenium	mg/L	<0.000508	<0.000508	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<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

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-33H							MR-AP-MW-34H	
		03/05/2020	10/14/2020	05/03/2021	09/08/2021	03/14/2022	09/20/2022	04/25/2023	03/09/2020	10/21/2020
Appendix IV										
Selenium	mg/L	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	0.0461	<0.002
Thallium	mg/L	<0.0002	<0.0002	<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 value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-34H					MR-AP-MW-35H			
		04/21/2021	09/13/2021	03/09/2022	09/19/2022	05/02/2023	03/10/2020	10/13/2020	05/05/2021	09/07/2021
Appendix IV										
Selenium	mg/L	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.000507	<0.000508
Thallium	mg/L	<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

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-35H			MR-AP-MW-36HR					
		03/08/2022	09/19/2022	04/18/2023	10/27/2020	04/21/2021	09/13/2021	03/16/2022	09/14/2022	04/25/2023
Appendix IV										
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.002	<0.000507	<0.000508	<0.000508	<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

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-37H						MR-AP-MW-31H		
		03/09/2020	10/19/2020	05/03/2021	09/15/2021	03/17/2022	09/27/2022	04/18/2023	10/27/2020	04/27/2021
Appendix IV										
Selenium	mg/L	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.000507
Thallium	mg/L	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-31H				MR-AP-MW-7S				
		09/13/2021	03/16/2022	09/20/2022	04/24/2023	07/21/2016	09/27/2016	11/01/2016	01/10/2017	02/14/2017
Appendix IV										
Selenium	mg/L	<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	<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 value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-7S								
		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
Appendix IV										
Selenium	mg/L	<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

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-7S	MR-AP-MW-7D							
		03/03/2020	07/21/2016	09/27/2016	11/01/2016	01/10/2017	02/14/2017	04/04/2017	05/16/2017	06/13/2017
Appendix IV										
Selenium	mg/L	<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

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-7D						MR-AP-MW-8S		
		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
Appendix IV										
Selenium	mg/L	--	<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

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-8S								
		11/01/2016	01/10/2017	02/14/2017	04/04/2017	05/16/2017	06/13/2017	09/19/2017	01/30/2018	05/09/2018
Appendix IV										
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	0.00359 J
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-8S				MR-AP-MW-8D				
		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 IV										
Selenium	mg/L	<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

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-8D								
		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
Appendix IV										
Selenium	mg/L	<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

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-8D	MR-AP-MW-9S							
		03/03/2020	07/20/2016	09/27/2016	11/02/2016	01/12/2017	02/15/2017	04/06/2017	05/17/2017	06/14/2017
Appendix IV										
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	0.00211 J	<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

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-9S							MR-AP-MW-9D	
		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
Appendix IV										
Selenium	mg/L	--	0.00357 J	<0.002	<0.002	<0.002	<0.002	0.00584 J	<0.002	<0.002
Thallium	mg/L	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-9D								
		11/01/2016	01/10/2017	02/15/2017	04/04/2017	05/17/2017	06/13/2017	09/19/2017	01/30/2018	05/08/2018
Appendix IV										
Selenium	mg/L	<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

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-9D				MR-AP-MW-10				
		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 IV										
Selenium	mg/L	<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

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		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
Appendix IV										
Selenium	mg/L	<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

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-10								MR-AP-MW-11
		03/09/2020	10/19/2020	05/03/2021	09/15/2021	03/17/2022	05/19/2022	09/26/2022	05/03/2023	07/25/2016
Appendix IV										
Selenium	mg/L	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<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

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-11								
		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
Appendix IV										
Selenium	mg/L	<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	--

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-11								
		01/30/2018	05/08/2018	10/09/2018	05/01/2019	08/28/2019	03/03/2020	10/20/2020	04/21/2021	09/14/2021
Appendix IV										
Selenium	mg/L	<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	<6.8e-005	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-11			MR-AP-MW-12					
		03/16/2022	09/20/2022	05/03/2023	07/20/2016	09/27/2016	11/01/2016	01/11/2017	02/15/2017	04/04/2017
Appendix IV										
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<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

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-12								
		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
Appendix IV										
Selenium	mg/L	<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

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-12						MR-AP-MW-13D		
		05/05/2021	09/07/2021	03/17/2022	05/19/2022	09/26/2022	05/03/2023	07/20/2016	09/27/2016	11/01/2016
Appendix IV										
Selenium	mg/L	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002
Thallium	mg/L	<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 value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-13D								
		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 IV										
Selenium	mg/L	<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

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-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
Appendix IV										
Selenium	mg/L	<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

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-13S								
		05/17/2017	06/13/2017	09/19/2017	01/31/2018	05/08/2018	10/09/2018	04/24/2019	08/29/2019	03/09/2020
Appendix IV										
Selenium	mg/L	<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

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS								
		MR-AP-MW-14								
		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
Appendix IV										
Selenium	mg/L	<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	--

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GROUNDWATER MONITORING WELLS					
		MR-AP-MW-14					
		01/30/2018	05/08/2018	10/09/2018	04/24/2019	08/28/2019	03/04/2020
Appendix IV							
Selenium	mg/L	<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

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 05/03/2023)
APC Plant Miller
Jefferson County Alabama

Notes:

1. mg/L - Milligrams per Liter
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5. 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.

Appendix B



Appendix B. Historical Groundwater Elevations Summary

Plant Miller Ash Pond
06/28/2016 - 04/18/2023

Well	Hydraulic Location	Geologic Unit																
			06/28/16	06/30/16	07/07/16	07/18/16	07/27/16	08/01/16	09/19/16	09/26/16	10/24/16	10/31/16	12/12/16	01/09/17	02/06/17	02/13/17	03/27/17	04/04/17
MR-AP-MW-21	Upgradient	Pottsville Fm - Lower Mary Lee Group																
GS-AP-MW-8	Upgradient	Pottsville Fm - Pratt Strata		46.31	46.39		46.66	388.05	46.96		386.81		387.48		388.46		388.59	
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																
GS-AP-MW-17V	Upgradient	Pottsville Fm - Shallow Water Table																
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
MR-AP-MW-2	Downgradient	Pottsville Fm - Mary Lee Coal	279.24				278.69				277.88		277.37		277.92		280.47	281.84
MR-AP-MW-3S	Downgradient	Pottsville Formation - Gillespy Sandstone	346.43				346.22				346.74		346.38		346.44		347.45	348.13
MR-AP-MW-3D	Downgradient	Pottsville Formation - Sandstone	326.51				326.34				326.06		325.96		327.05		328.58	333.38
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
MR-AP-MW-5	Downgradient	Pottsville Fm - Gillespy Lower Discrete					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
MR-AP-MW-6	Downgradient	Pottsville Fm - Gillespy to Pratt Transition					Artesian				Artesian		Artesian		Artesian		Artesian	Artesian
MR-AP-MW-7SR	Downgradient	Pottsville Fm - Gillespy to Pratt Transition																
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 - 04/18/2023

Well	Hydraulic Location	Geologic Unit																
			06/28/16	06/30/16	07/07/16	07/18/16	07/27/16	08/01/16	09/19/16	09/26/16	10/24/16	10/31/16	12/12/16	01/09/17	02/06/17	02/13/17	03/27/17	04/04/17
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
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
MR-AP-MW-10	Downgradient	Pottsville Fm - Pratt Group	412.63			412.63				412.98		413.04		413.36		413.76		414.64
MR-AP-MW-11	Downgradient	Pottsville Fm - Pratt Group	361.29			361.79				362.55		362.52		362.98		364.17		364.89
MR-AP-MW-12	Downgradient	Pottsville Fm - Pratt Group	415.88			415.85				415.85		382.87		416.05		416.29		416.97
MR-AP-MW-4V	Vertical Delineation	Pottsville Fm - Gillespy Lower Discrete																
MR-AP-MW-6V	Vertical Delineation	Pottsville Fm - Lower Gillespy SS																
MR-AP-MW-17H	Horizontal Delineation	Pottsville Fm - Lower Mary Lee Group																
MR-AP-MW-18H	Horizontal Delineation	Pottsville Fm - Upper Mary Lee Group																
MR-AP-MW-19HA	Horizontal Delineation	Pottsville Fm - Mary Lee Coal																
MR-AP-MW-20H	Horizontal Delineation	Pottsville Fm - Lower Gillespy SS																
MR-AP-MW-20HS	Horizontal Delineation	Pottsville Fm - Gillespy Lower Discrete																
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																
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																

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 - 04/18/2023**

Well	Hydraulic Location	Geologic Unit																
			06/28/16	06/30/16	07/07/16	07/18/16	07/27/16	08/01/16	09/19/16	09/26/16	10/24/16	10/31/16	12/12/16	01/09/17	02/06/17	02/13/17	03/27/17	04/04/17
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
MR-AP-MW-7D	Abandoned	Pottsville Fm - Lower Gillespy SS	257.69			257.35				257.78		257.24		257.86		258.41		261.57
MR-AP-MW-8S	Abandoned	Pottsville Fm - Pratt Group	419.42			419.31				419.25		419.28		419.32		419.64		420.70
MR-AP-MW-8D	Abandoned	Pottsville Fm - Pratt Group	412.26			412.29				412.72		412.78		412.88		413.16		414.10
MR-AP-MW-9S	Abandoned	Pottsville Fm - Pratt Group	418.54			418.44				418.88		418.83		420.68		422.70		424.68
MR-AP-MW-9D	Abandoned	Pottsville Fm - Pratt Group	412.46			412.38				412.51		412.64		412.81		412.94		413.51
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
MR-AP-MW-13S	Abandoned	Pottsville Fm - Pratt Group	422.89			422.60				422.74		422.42		423.21		423.93		424.63
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
MR-AP-MW-27H	Abandoned	Pottsville Fm - Unassigned																
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 - 04/18/2023

Well	Hydraulic Location	Geologic Unit	Measure Date																
			04/24/17	05/15/17	06/05/17	06/12/17	08/21/17	09/18/17	01/29/18	02/19/18	03/27/18	04/02/18	05/07/18	05/14/18	10/08/18	10/15/18	03/13/19	04/15/19	
MR-AP-MW-21	Upgradient	Pottsville Fm - Lower Mary Lee Group															353.66		
GS-AP-MW-8	Upgradient	Pottsville Fm - Pratt Strata	389.32		389.28		389.87				391.02		390.73		391.08		389.43	391.66	391.88
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																	
GS-AP-MW-17V	Upgradient	Pottsville Fm - Shallow Water Table																424.68	
MR-AP-MW-23A	Upgradient	Pottsville Fm - Lower Mary Lee Group																	
MR-AP-MW-1	Downgradient	Pottsville Fm - Mary Lee Coal		280.13		280.46		279.72	280.25		280.60		280.84		279.10		280.60		
MR-AP-MW-2	Downgradient	Pottsville Fm - Mary Lee Coal		280.06		280.32		279.62	280.23		280.52		280.74		278.99		280.51		
MR-AP-MW-3S	Downgradient	Pottsville Formation - Gillespy Sandstone		346.90		347.17		347.07	347.21		347.99		348.94		325.30		349.22		
MR-AP-MW-3D	Downgradient	Pottsville Formation - Sandstone		326.12		327.47		326.69	325.42		326.56		326.79		348.61		327.82		
MR-AP-MW-4	Downgradient	Pottsville Fm - Gillespy to Pratt Transition		380.90		381.07		381.03	380.79		380.89		380.92		380.81		381.03		
MR-AP-MW-5	Downgradient	Pottsville Fm - Gillespy Lower Discrete		Artesian		Artesian		Artesian	Artesian		Artesian		Artesian		Artesian		Artesian		Artesian
MR-AP-PZ-5	Downgradient	Pottsville Fm - Mary Lee Coal		279.13		279.45		Artesian	Artesian		Artesian		279.22		Artesian		Artesian		Artesian
MR-AP-MW-6	Downgradient	Pottsville Fm - Gillespy to Pratt Transition		Artesian		Artesian		Artesian	Artesian		Artesian		Artesian		Artesian		Artesian		Artesian
MR-AP-MW-7SR	Downgradient	Pottsville Fm - Gillespy to Pratt Transition																	
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 - 04/18/2023

Well	Hydraulic Location	Geologic Unit	Measure Date															
			04/24/17	05/15/17	06/05/17	06/12/17	08/21/17	09/18/17	01/29/18	02/19/18	03/27/18	04/02/18	05/07/18	05/14/18	10/08/18	10/15/18	03/13/19	04/15/19
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		401.48		401.80			402.01	401.50		402.11		402.17		400.04		400.80
MR-AP-MW-16	Downgradient	Pottsville Fm - Gillespy to Pratt Transition		388.43		389.21			389.37	388.34		389.61		389.69		388.90		392.06
MR-AP-MW-10	Downgradient	Pottsville Fm - Pratt Group		413.76		414.21			414.39	414.62		414.94		415.20		415.14		416.57
MR-AP-MW-11	Downgradient	Pottsville Fm - Pratt Group		365.70		366.35			366.69	365.43		367.16		367.88		366.28		371.32
MR-AP-MW-12	Downgradient	Pottsville Fm - Pratt Group		416.11		416.40			416.43	416.45		416.55		416.59		416.32		NM
MR-AP-MW-4V	Vertical Delineation	Pottsville Fm - Gillespy Lower Discrete																336.60
MR-AP-MW-6V	Vertical Delineation	Pottsville Fm - Lower Gillespy SS																258.91
MR-AP-MW-17H	Horizontal Delineation	Pottsville Fm - Lower Mary Lee Group																255.34
MR-AP-MW-18H	Horizontal Delineation	Pottsville Fm - Upper Mary Lee Group																291.24
MR-AP-MW-19HA	Horizontal Delineation	Pottsville Fm - Mary Lee Coal																
MR-AP-MW-20H	Horizontal Delineation	Pottsville Fm - Lower Gillespy SS																259.20
MR-AP-MW-20HS	Horizontal Delineation	Pottsville Fm - Gillespy Lower Discrete																333.33
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																
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																

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 - 04/18/2023**

Well	Hydraulic Location	Geologic Unit	Measure Date															
			04/24/17	05/15/17	06/05/17	06/12/17	08/21/17	09/18/17	01/29/18	02/19/18	03/27/18	04/02/18	05/07/18	05/14/18	10/08/18	10/15/18	03/13/19	04/15/19
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		325.91		326.27			326.96	326.62		327.02		327.60		327.43		328.97
MR-AP-MW-7D	Abandoned	Pottsville Fm - Lower Gillespy SS		258.05		257.96			258.05	258.03		258.29		258.41		257.77		257.97
MR-AP-MW-8S	Abandoned	Pottsville Fm - Pratt Group		419.25		419.55			419.42	419.35		419.63		419.67		419.28		420.28
MR-AP-MW-8D	Abandoned	Pottsville Fm - Pratt Group		413.13		413.49			413.51	413.37		413.68		413.79		413.50		414.70
MR-AP-MW-9S	Abandoned	Pottsville Fm - Pratt Group		420.27		421.96			421.12	423.90		421.96		422.17		420.54		423.25
MR-AP-MW-9D	Abandoned	Pottsville Fm - Pratt Group		412.67		412.85			412.88	412.81		412.90		412.88		412.74		413.43
MR-AP-MW-13D	Abandoned	Pottsville Fm - Gillespy to Pratt Transition		411.49		411.06			407.34	403.54		402.89		400.75		395.85		397.65
MR-AP-MW-13S	Abandoned	Pottsville Fm - Pratt Group		423.33		423.62			423.79	423.60		424.29		424.43		423.44		425.30
MR-AP-MW-14	Abandoned	Pottsville Fm - Gillespy to Pratt Transition		410.61		411.25			410.93	410.82		411.24		411.32		410.02		412.05
MR-AP-MW-27H	Abandoned	Pottsville Fm - Unassigned																
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 - 04/18/2023

Well	Hydraulic Location	Geologic Unit															
			04/22/19	08/26/19	09/23/19	03/02/20	03/16/20	09/14/20	10/12/20	02/01/21	04/19/21	06/09/21	06/15/21	07/26/21	09/01/21	12/16/21	02/07/22
MR-AP-MW-21	Upgradient	Pottsville Fm - Lower Mary Lee Group		347.51		353.64					352.84		351.83		351.25		353.24
GS-AP-MW-8	Upgradient	Pottsville Fm - Pratt Strata			387.52		390.10	389.42		390.61		390.32		390.70		44.89	391.47
MR-AP-MW-22S	Upgradient	Pottsville Fm - Lower Mary Lee Group									350.24		350.42		349.87		350.27
MR-AP-MW-22I	Upgradient	Pottsville Fm - Lower Mary Lee Group									335.52		335.15		335.21		336.16
MR-AP-MW-22D	Upgradient	Pottsville Fm - Lower Mary Lee Group							333.27		335.52		335.08		335.19		335.98
MR-AP-MW-23	Upgradient	Pottsville Fm - Lower Mary Lee Group				341.79			341.07		341.79		341.39		341.08		342.07
GS-AP-MW-17V	Upgradient	Pottsville Fm - Shallow Water Table			419.40		425.61	423.83		426.50		425.16		426.11		108.57	425.19
MR-AP-MW-23A	Upgradient	Pottsville Fm - Lower Mary Lee Group							341.10		341.88		341.43		341.17		342.12
MR-AP-MW-1	Downgradient	Pottsville Fm - Mary Lee Coal	280.76	278.27		280.36					280.26		280.06		280.20		280.20
MR-AP-MW-2	Downgradient	Pottsville Fm - Mary Lee Coal	280.68	278.20		280.29					280.21		280.00		280.18		280.13
MR-AP-MW-3S	Downgradient	Pottsville Formation - Gillespy Sandstone	348.63	347.60		350.33					349.06		349.16		347.96		348.45
MR-AP-MW-3D	Downgradient	Pottsville Formation - Sandstone	329.33	325.26		327.69					328.13		329.02		329.48		325.10
MR-AP-MW-4	Downgradient	Pottsville Fm - Gillespy to Pratt Transition	381.04	380.58		381.42					380.56		380.26		378.82		373.87
MR-AP-MW-5	Downgradient	Pottsville Fm - Gillespy Lower Discrete	Artesian	Artesian		Artesian					Artesian		Artesian		Artesian		Artesian
MR-AP-PZ-5	Downgradient	Pottsville Fm - Mary Lee Coal	Artesian	Artesian		Artesian					Artesian		Artesian		Artesian		Artesian
MR-AP-MW-6	Downgradient	Pottsville Fm - Gillespy to Pratt Transition	Artesian	Artesian		Artesian					Artesian		Artesian		Artesian		Artesian
MR-AP-MW-7SR	Downgradient	Pottsville Fm - Gillespy to Pratt Transition									329.37		329.31		328.34		327.06
MR-AP-MW-7DR	Downgradient	Pottsville Fm - Lower Gillespy SS									258.65		258.52		258.69		259.04
MR-AP-MW-9SR	Downgradient	Pottsville Fm - Pratt Group									410.62		410.01		406.16		397.41
MR-AP-MW-9DR	Downgradient	Pottsville Fm - Pratt Group									402.47		402.48		399.23		395.18
MR-AP-MW-13SR	Downgradient	Pottsville Fm - Pratt Group									428.63		428.73		428.84		429.38

Notes:

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Appendix B. Historical Groundwater Elevations Summary

Plant Miller Ash Pond
06/28/2016 - 04/18/2023

Well	Hydraulic Location	Geologic Unit																	
			04/22/19	08/26/19	09/23/19	03/02/20	03/16/20	09/14/20	10/12/20	02/01/21	04/19/21	06/09/21	06/15/21	07/26/21	09/01/21	12/16/21	02/07/22	03/07/22	
MR-AP-MW-13DR	Downgradient	Pottsville Fm - Gillespy to Pratt Transition										382.83		382.15		381.06			380.12
MR-AP-MW-14R	Downgradient	Pottsville Fm - Gillespy to Pratt Transition										410.74		410.34		410.48			411.09
MR-AP-MW-15	Downgradient	Pottsville Fm - Gillespy to Pratt Transition	400.77	399.50		401.10						399.41		399.74		399.94			399.35
MR-AP-MW-16	Downgradient	Pottsville Fm - Gillespy to Pratt Transition	391.31	387.14		392.46						387.95		389.23		392.06			387.36
MR-AP-MW-10	Downgradient	Pottsville Fm - Pratt Group	415.90	414.24		417.29						416.78		416.60		412.07			399.33
MR-AP-MW-11	Downgradient	Pottsville Fm - Pratt Group	369.09	365.39		371.89						370.58		368.76		367.13			364.21
MR-AP-MW-12	Downgradient	Pottsville Fm - Pratt Group	416.17	415.14		417.49						416.17		415.71		411.69			406.44
MR-AP-MW-4V	Vertical Delineation	Pottsville Fm - Gillespy Lower Discrete		335.70		336.99						336.68		336.82		336.60			331.68
MR-AP-MW-6V	Vertical Delineation	Pottsville Fm - Lower Gillespy SS		259.34		259.64						259.76		259.81		259.99			260.47
MR-AP-MW-17H	Horizontal Delineation	Pottsville Fm - Lower Mary Lee Group		254.92		257.49						255.47		255.16		255.71			255.42
MR-AP-MW-18H	Horizontal Delineation	Pottsville Fm - Upper Mary Lee Group		286.33		286.03						284.06		283.85		284.32			284.41
MR-AP-MW-19HA	Horizontal Delineation	Pottsville Fm - Mary Lee Coal				286.58						280.91		280.64		280.86			281.06
MR-AP-MW-20H	Horizontal Delineation	Pottsville Fm - Lower Gillespy SS		259.78		261.36						261.56		261.49		261.65			261.42
MR-AP-MW-20HS	Horizontal Delineation	Pottsville Fm - Gillespy Lower Discrete		333.44		335.20						335.07		334.04		333.43			330.46
MR-AP-MW-27HR	Horizontal Delineation	Pottsville Fm - Gillespy to Pratt Transition								382.53		382.60		381.63		380.29			377.39
MR-AP-MW-28H	Horizontal Delineation	Pottsville Fm - Pratt Group				409.70				408.31		409.43		408.88		407.03			405.45
MR-AP-MW-30H	Horizontal Delineation	Pottsville Fm - Pratt Group				364.53				361.56		360.88		358.78		358.01			348.37
MR-AP-MW-32H	Horizontal Delineation	Pottsville Fm - Lower Gillespy SS				260.03				259.28		259.98		259.81		260.03			261.18
MR-AP-MW-33H	Horizontal Delineation	Pottsville Fm - Gillespy Lower Discrete				310.15				306.41		306.95		307.11		306.73			304.02
MR-AP-MW-34H	Horizontal Delineation	Pottsville Fm - Mary Lee Coal				284.00				278.75		280.38		280.12		280.27			280.26
MR-AP-MW-35H	Horizontal Delineation	Pottsville Fm - Mary Lee Coal				296.01				291.72		295.16		293.81		294.01			295.95

Notes:

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Appendix B. Historical Groundwater Elevations Summary

Plant Miller Ash Pond

06/28/2016 - 04/18/2023

Well	Hydraulic Location	Geologic Unit																
			04/22/19	08/26/19	09/23/19	03/02/20	03/16/20	09/14/20	10/12/20	02/01/21	04/19/21	06/09/21	06/15/21	07/26/21	09/01/21	12/16/21	02/07/22	03/07/22
MR-AP-MW-36HR	Horizontal Delineation	Pottsville Fm - Pratt Group							380.81		347.61		346.62		345.39			341.99
MR-AP-MW-37H	Horizontal Delineation	Pottsville Fm - Gillespy to Pratt Transition				335.14			332.82		334.68		333.20		333.92			314.84
MR-AP-MW-31H	Horizontal Delineation	Pottsville Fm - Gillespy to Pratt Transition				321.78			318.50		321.48		320.08		319.42			306.75
MR-AP-MW-2V	Piezometer	Pottsville Fm - Lower Mary Lee Group				213.67					215.55		229.41		232.96			215.74
MR-AP-MW-3V	Piezometer	Pottsville Fm - Upper Mary Lee Group				282.30					281.18		280.91		280.93			281.00
MR-AP-MW-19H	Piezometer	Pottsville Fm - Unassigned				144.04					155.51		156.99		158.96			163.03
MR-AP-MW-7S	Abandoned	Pottsville Fm - Gillespy to Pratt Transition	328.41	327.62		329.53												
MR-AP-MW-7D	Abandoned	Pottsville Fm - Lower Gillespy SS	258.63	257.91		258.40												
MR-AP-MW-8S	Abandoned	Pottsville Fm - Pratt Group	419.92	418.23		420.53												
MR-AP-MW-8D	Abandoned	Pottsville Fm - Pratt Group	414.34	412.78		415.54												
MR-AP-MW-9S	Abandoned	Pottsville Fm - Pratt Group	422.40	419.21		423.24												
MR-AP-MW-9D	Abandoned	Pottsville Fm - Pratt Group	412.87	411.60		413.73												
MR-AP-MW-13D	Abandoned	Pottsville Fm - Gillespy to Pratt Transition	396.79	397.06		401.30												
MR-AP-MW-13S	Abandoned	Pottsville Fm - Pratt Group	424.23	420.93		425.40												
MR-AP-MW-14	Abandoned	Pottsville Fm - Gillespy to Pratt Transition	411.58	407.99														
MR-AP-MW-27H	Abandoned	Pottsville Fm - Unassigned				174.02												
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 B. Historical Groundwater Elevations Summary

**Plant Miller Ash Pond
06/28/2016 - 04/18/2023**

Well	Hydraulic Location	Geologic Unit				
			07/18/22	09/13/22	03/06/23	04/18/23
MR-AP-MW-21	Upgradient	Pottsville Fm - Lower Mary Lee Group		349.46		353.06
GS-AP-MW-8	Upgradient	Pottsville Fm - Pratt Strata	391.20		392.80	
MR-AP-MW-22S	Upgradient	Pottsville Fm - Lower Mary Lee Group		349.22		349.88
MR-AP-MW-22I	Upgradient	Pottsville Fm - Lower Mary Lee Group		334.85		336.41
MR-AP-MW-22D	Upgradient	Pottsville Fm - Lower Mary Lee Group		334.78		337.05
MR-AP-MW-23	Upgradient	Pottsville Fm - Lower Mary Lee Group		340.65		341.87
GS-AP-MW-17V	Upgradient	Pottsville Fm - Shallow Water Table	422.40		426.16	
MR-AP-MW-23A	Upgradient	Pottsville Fm - Lower Mary Lee Group		340.73		341.95
MR-AP-MW-1	Downgradient	Pottsville Fm - Mary Lee Coal		279.10		280.25
MR-AP-MW-2	Downgradient	Pottsville Fm - Mary Lee Coal		279.02		280.15
MR-AP-MW-3S	Downgradient	Pottsville Formation - Gillespy Sandstone		338.66		340.05
MR-AP-MW-3D	Downgradient	Pottsville Formation - Sandstone		319.46		320.24
MR-AP-MW-4	Downgradient	Pottsville Fm - Gillespy to Pratt Transition		361.96		370.50
MR-AP-MW-5	Downgradient	Pottsville Fm - Gillespy Lower Discrete		Artesian		Artesian
MR-AP-PZ-5	Downgradient	Pottsville Fm - Mary Lee Coal		Artesian		Artesian
MR-AP-MW-6	Downgradient	Pottsville Fm - Gillespy to Pratt Transition		365.28		362.84
MR-AP-MW-7SR	Downgradient	Pottsville Fm - Gillespy to Pratt Transition		323.33		324.33
MR-AP-MW-7DR	Downgradient	Pottsville Fm - Lower Gillespy SS		258.16		258.61
MR-AP-MW-9SR	Downgradient	Pottsville Fm - Pratt Group		388.88		390.80
MR-AP-MW-9DR	Downgradient	Pottsville Fm - Pratt Group		386.01		386.34
MR-AP-MW-13SR	Downgradient	Pottsville Fm - Pratt Group		424.01		429.22

Notes:

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Appendix B. Historical Groundwater Elevations Summary

**Plant Miller Ash Pond
06/28/2016 - 04/18/2023**

Well	Hydraulic Location	Geologic Unit				
			07/18/22	09/13/22	03/06/23	04/18/23
MR-AP-MW-13DR	Downgradient	Pottsville Fm - Gillespy to Pratt Transition		376.12		376.68
MR-AP-MW-14R	Downgradient	Pottsville Fm - Gillespy to Pratt Transition		407.93		410.29
MR-AP-MW-15	Downgradient	Pottsville Fm - Gillespy to Pratt Transition		397.16		397.71
MR-AP-MW-16	Downgradient	Pottsville Fm - Gillespy to Pratt Transition		385.69		386.70
MR-AP-MW-10	Downgradient	Pottsville Fm - Pratt Group		390.84		390.66
MR-AP-MW-11	Downgradient	Pottsville Fm - Pratt Group		358.37		360.98
MR-AP-MW-12	Downgradient	Pottsville Fm - Pratt Group		395.25		396.02
MR-AP-MW-4V	Vertical Delineation	Pottsville Fm - Gillespy Lower Discrete		325.79		324.73
MR-AP-MW-6V	Vertical Delineation	Pottsville Fm - Lower Gillespy SS		259.56		259.95
MR-AP-MW-17H	Horizontal Delineation	Pottsville Fm - Lower Mary Lee Group		234.29		255.38
MR-AP-MW-18H	Horizontal Delineation	Pottsville Fm - Upper Mary Lee Group		281.36		283.98
MR-AP-MW-19HA	Horizontal Delineation	Pottsville Fm - Mary Lee Coal		279.82		280.87
MR-AP-MW-20H	Horizontal Delineation	Pottsville Fm - Lower Gillespy SS		260.57		260.78
MR-AP-MW-20HS	Horizontal Delineation	Pottsville Fm - Gillespy Lower Discrete		326.30		324.09
MR-AP-MW-27HR	Horizontal Delineation	Pottsville Fm - Gillespy to Pratt Transition		372.40		371.36
MR-AP-MW-28H	Horizontal Delineation	Pottsville Fm - Pratt Group		400.08		401.50
MR-AP-MW-30H	Horizontal Delineation	Pottsville Fm - Pratt Group		344.10		347.51
MR-AP-MW-32H	Horizontal Delineation	Pottsville Fm - Lower Gillespy SS		259.91		261.04
MR-AP-MW-33H	Horizontal Delineation	Pottsville Fm - Gillespy Lower Discrete		300.77		300.77
MR-AP-MW-34H	Horizontal Delineation	Pottsville Fm - Mary Lee Coal		279.24		280.29
MR-AP-MW-35H	Horizontal Delineation	Pottsville Fm - Mary Lee Coal		292.71		295.36

Notes:

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Appendix B. Historical Groundwater Elevations Summary

**Plant Miller Ash Pond
06/28/2016 - 04/18/2023**

Well	Hydraulic Location	Geologic Unit				
			07/18/22	09/13/22	03/06/23	04/18/23
MR-AP-MW-36HR	Horizontal Delineation	Pottsville Fm - Pratt Group		338.52		341.40
MR-AP-MW-37H	Horizontal Delineation	Pottsville Fm - Gillespy to Pratt Transition		332.02		334.09
MR-AP-MW-31H	Horizontal Delineation	Pottsville Fm - Gillespy to Pratt Transition		306.10		317.46
MR-AP-MW-2V	Piezometer	Pottsville Fm - Lower Mary Lee Group		241.97		n/a
MR-AP-MW-3V	Piezometer	Pottsville Fm - Upper Mary Lee Group		279.65		280.86
MR-AP-MW-19H	Piezometer	Pottsville Fm - Unassigned		168.49		155.64
MR-AP-MW-7S	Abandoned	Pottsville Fm - Gillespy to Pratt Transition				
MR-AP-MW-7D	Abandoned	Pottsville Fm - Lower Gillespy SS				
MR-AP-MW-8S	Abandoned	Pottsville Fm - Pratt Group				
MR-AP-MW-8D	Abandoned	Pottsville Fm - Pratt Group				
MR-AP-MW-9S	Abandoned	Pottsville Fm - Pratt Group				
MR-AP-MW-9D	Abandoned	Pottsville Fm - Pratt Group				
MR-AP-MW-13D	Abandoned	Pottsville Fm - Gillespy to Pratt Transition				
MR-AP-MW-13S	Abandoned	Pottsville Fm - Pratt Group				
MR-AP-MW-14	Abandoned	Pottsville Fm - Gillespy to Pratt Transition				
MR-AP-MW-27H	Abandoned	Pottsville Fm - Unassigned				
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 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 Potential	-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 Potential	-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 Potential	-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 Potential	-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 Potential	-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 Potential	-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 Potential	-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 Potential	-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 Potential	-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 Potential	-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
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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
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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
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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 Potention	-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 Potention	-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 Potention	-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 Potention	-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 Potention	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 Potention	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 Potention	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 Potention	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 Potention	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 Potention	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
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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
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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
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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
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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
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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
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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
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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
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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
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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
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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
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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=tmaske@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				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: 4/18/23 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			Preparation Method: EPA 1638					
* 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		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: 4/18/23 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	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BD07879	Aluminum, Dissolved	mg/L	0.000741	0.0198	0.100	0.105	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	0.105	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	0.0888	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	0.0939	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	0.0993	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	0.0970	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	0.0957	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	0.0931	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	0.0989	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	0.101	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	0.983	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	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	0.0966	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	0.0937	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	4.97	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	4.92	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	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	0.0946	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	0.0919	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	0.0944	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	0.0924	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	2.48	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	0.197	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	0.202	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: 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: 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					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

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			Preparation Method: EPA 1638				
* 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 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	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.
 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		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.
 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	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
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	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			Preparation Method: EPA 1638					
* 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					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 Dup

Laboratory ID Number: BD07891

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-28H

Location Code: WMWMLAP
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			Preparation Method: EPA 1638				
* 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	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	
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	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	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: WMWMLAP
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		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	
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	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: WMWMLAP
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					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 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 Limit	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					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: 4/25/23 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		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

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: WMWMLAP
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		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 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		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 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		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 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	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
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	Rec Limit	Prec	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
				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: 4/25/23 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	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		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				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 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		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				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	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
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			Preparation Method: EPA 1638				
* 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	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 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
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						
* 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				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 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		Preparation Method: EPA 1638				
* 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	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 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	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 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		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				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	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 Limit	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	0.0000169	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: 5/2/23 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	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		Preparation Method: EPA 1638				
* 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		Spike	MS	MSD	Standard		Rec		Prec	Limit
				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	
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	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-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		Spike	MS	MSD	Standard		Rec		Prec	Limit
				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	
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 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-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					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 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	0.000169	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 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			Preparation Method: EPA 1638				
* 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					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 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	Standard Limit	Rec 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		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				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			Preparation Method: EPA 1638					
* 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-221

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	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 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	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		
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	0.000169	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: 5/2/23 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		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: 5/2/23 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	0.0000169	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
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	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-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 Limit	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	Standard Limit	Rec 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		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
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	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 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	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							
* 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					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	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					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	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 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
 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

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

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-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"/>
							<input 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
	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	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 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"/>
							<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
	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"/>
							<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 09:58:17 -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"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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							<input type="checkbox"/>

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
 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-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"/>
							<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"/>

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	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: 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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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"/>
							<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>BushCaton</i>	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	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: 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"/>
							<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"/>
							<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"/>

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: 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-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"/>
							<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
		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: WMWMILAP_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: WMWMILAP_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

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
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

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
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

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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:

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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:

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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.

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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	

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.

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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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REPORT OF LABORATORY ANALYSIS

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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

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
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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	

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.

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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		

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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		

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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		

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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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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: fgarner@southernco.com Phone: 205-664-6101 Fax: Requested Due Date: Normal	Section B Invoice Information: Report To: Brooke Catton Copy To: Renee Jernigan & Blaine Denton Purchase Order #: APC10755638 Project Name: Plant Miller Ash Pond Project Number: WNWMMILAP_1408
Section C Invoice Information: Attention: Brooke Catton 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	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

WO#: 30586893

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed:

30586893

Received on _____

TEMP in C _____

Ice _____

Sealed _____

Cooler _____

Samples _____

Contact _____

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		Attention: 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: igamei@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	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	MW-15 Dup	APCO-MR-AP-MW-15 Dup	APCO_Miller_AshPond	X			GW	G	4/19/2023	11:55	1			X	X	X				
2	MW-28H	APCO-MR-AP-MW-28H	APCO_Miller_AshPond				GW	G	4/19/2023	14:25	1			X	X	X				
3	MW-7DR	APCO-MR-AP-MW-7DR	APCO_Miller_AshPond				GW	G	4/24/2023	10:56	1			X	X	X				
4	FB-2	APCO-MR-AP-FB-02	APCO_Miller_AshPond				GW	G	4/24/2023	11:25	1			X	X	X				
5	MW-7SR	APCO-MR-AP-MW-7SR	APCO_Miller_AshPond		X		GW	G	4/24/2023	12:08	1			X	X	X				
6	MW-6V	APCO-MR-AP-MW-6V	APCO_Miller_AshPond				GW	G	4/24/2023	14:42	1			X	X	X				
7	PZ-5	APCO-MR-AP-PZ-5	APCO_Miller_AshPond				GW	G	4/25/2023	10:27	1			X	X	X				
8	MW-5	APCO-MR-AP-MW-5	APCO_Miller_AshPond				GW	G	4/25/2023	11:17	1			X	X	X				
9	MW-5 Dup	APCO-MR-AP-MW-5	APCO_Miller_AshPond	X			GW	G	4/25/2023	11:17	1			X	X	X				
10	MW-6	APCO-MR-AP-MW-6	APCO_Miller_AshPond				GW	G	4/25/2023	13:48	1			X	X	X				
11	MW-33H	APCO-MR-AP-MW-33H	APCO_Miller_AshPond				GW	G	4/25/2023	14:57	1			X	X	X				
12	FB-3	APCO-MR-AP-FB-03	APCO_Miller_AshPond				GW	G	4/25/2023	15:40	1			X	X	X				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Brooke Catton	5/5/2023	11:51	<i>Brooke Catton</i>	5/10/23	10:20	

W0#: 30586893

PN: SCR Due Date: 06/08/23

CLIENT: ALABAMA PWR

8 of 101

SAMPLER NAME AND SIGNATURE: _____

PRINT Name of SAMPLER: _____

SIGNATURE of SAMPLER: _____

DATE Signed: _____

Received on _____

Temp in C _____

Ice (Y/N) _____

Custody (Y/N) _____

Sealed _____

Cooler _____

(Y/N) _____

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 Fax:	Project Name:	Plant Miller_Ash Pond	Pace Project Manager:	Skylar Richmond
Requested Due Date:	Normal	Project Number:	WMMMLAP_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

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SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	
SIGNATURE of SAMPLER:	
DATE Signed:	

CHAIN-OF-CUSTODY / Analytical Request Document

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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:	lgatner@southernco.com	Purchase Order #:	APC10755638	Address:	744 Highway 87 GSC Bldg #8
Phone:	205-684-6101	Project Name:	Plant Miller Ash Pond	Pace Quote:	CCR
Requested Due Date:	Normal	Project Number:	WMWMLAP_1408	Pace Project Manager:	Skylar Richmond
				Pace Profile #:	16788
				Regulatory Agency:	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)				Residual Chlorine (Y/N)
									START DATE	TIME		Unpreserved	NaOH/ZnAcetate	HNO3		EPA 8315	EPA 8320	Total Radium Sum	Total Sulfide	
1	MW-14R	APCO-MR-AP-MW-14R	APCO_Miller_AshPond				GW	G	5/2/2023	13:24	1			X	X	X			043	
2	MW-21	APCO-MR-AP-MW-21	APCO_Miller_AshPond				GW	G	5/2/2023	15:03	1			X	X	X			044	
3	FB-5	APCO-MR-AP-FB-05	APCO_Miller_AshPond				GW	G	5/2/2023	16:00	1			X	X	X			045	
4	MW-10	APCO-MR-AP-MW-10	APCO_Miller_AshPond				GW	G	5/3/2023	8:17	1			X	X	X			046	
5	MW-12	APCO-MR-AP-MW-12	APCO_Miller_AshPond				GW	G	5/3/2023	10:01	1			X	X	X			047	
6	MW-9DR	APCO-MR-AP-MW-9DR	APCO_Miller_AshPond				GW	G	5/3/2023	11:34	1			X	X	X			048	
7	MW-9SR	APCO-MR-AP-MW-9SR	APCO_Miller_AshPond				GW	G	5/3/2023	12:47	1			X	X	X			049	
8	EB-2	APCO-MR-AP-EB-02	APCO_Miller_AshPond				GW	G	5/3/2023	13:30	1			X	X	X			050	
9	MW-22J	APCO-MR-AP-MW-22J	APCO_Miller_AshPond				GW	G	5/3/2023	15:28	1			X	X	X			051	
10	MW-19HA	APCO-MR-AP-MW-19HA	APCO_Miller_AshPond				GW	G	5/1/2023	14:23	1			X	X	X			052	
11	MW-34H	APCO-MR-AP-MW-34H	APCO_Miller_AshPond				GW	G	5/2/2023	10:25	1			X	X	X			053	
12	MW-18H	APCO-MR-AP-MW-18H	APCO_Miller_AshPond				GW	G	5/2/2023	11:55	1			X	X	X			054	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Brooke Caton	5/5/2023	11:51				
				<i>Shane Nathan</i>	5/10/23	10:20	

W0#: 30586893

PH: SCR Due Date: 06/08/23

CLIENT: ALABAMA PMR

SAMPLER NAME AND SIGNATURE: _____

PRINT Name of SAMPLER: _____

SIGNATURE of SAMPLER: _____

DATE Signed: _____

TEMP in C: _____

Received on: _____

Ice (Y/N): _____

Custody Sealed (Y/N): _____

Cooler (Y/N): _____

Samples (Y/N): _____

Intrac (Y/N): _____

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A		Section B		Section C	
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		Required Project Information: Report To: Brooke Caton Copy To: Renee Jernigan & Blaine Denton Purchase Order #: APC10755638 Project Name: Plant Miller Ash Pond Project Number: WMMMLAP_1408		Invoice Information: Attention: Brooke Caton Company Name: Alabama Power Co. Address: 744 Highway 87 GSC Bldg #8 CCR Pace Project Manager: Skyler Richmond 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 Residuum-Sum	Total Sulfide	Residual Chlorine (Y/N)	Requested Analysis Filtered (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	10:00	

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: _____



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

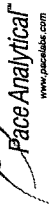
Cooler Temperature: Observed Temp _____ °C Correction Factor: _____ °C Final Temp: _____ °C

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: 3/11/23 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

Sample Collection Date:	MS/MSD 1	MS/MSD 2
4/18/2023	30586893001	
Sample I.D.:	30586893002	
Sample MS I.D.:	30586893003	
Sample MSD I.D.:	22-040	
Spike I.D.:	32.866	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	0.20	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.601	
MS Aliquot (L, g, F):	8.203	
MS Target Conc. (pCi/L, g, F):	0.802	
MSD Aliquot (L, g, F):	8.200	
MSD Target Conc. (pCi/L, g, F):	0.402	
MS Spike Uncertainty (calculated):	0.402	
MSD Spike Uncertainty (calculated):	0.259	
Sample Result:	0.322	
Sample Result 2 Sigma CSU (pCi/L, g, F):	7.389	
Sample Matrix Spike Result:	1.494	
Sample Matrix Spike Duplicate Result:	6.471	
Sample Matrix Spike Duplicate Result:	1.325	
MS Numerical Performance Indicator:	-1.332	
MS Numerical Performance Indicator:	-2.742	
MS Percent Recovery:	86.91%	
MSD Percent Recovery:	75.75%	
MS Status vs Numerical Indicator:	Pass	
MS Status vs Numerical Indicator:	Warning	
MS Status vs Recovery:	Pass	
MSD Status vs Recovery:	Pass	
MS/MSD Upper % Recovery Limits:	135%	
MS/MSD Lower % Recovery Limits:	60%	

Duplicate Sample Assessment

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):
 Sample Duplicate Result (pCi/L, g, F):
 Duplicate Duplicate Result (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 ##

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.:	30586893001
Sample MS I.D.:	30586893002
Sample MSD I.D.:	30586893003
Sample 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
Matrix Spike Duplicate Numerical Performance Indicator:	0.902
Duplicate Numerical Performance Indicator:	13.72%
(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%

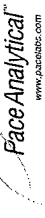
Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

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)?	
	LCSD73191	LCSD73191
Count Date:	6/2/2023	6/2/2023
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	0.505
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	LCSD73191	LCSD73191
Sample I.D.:	LCSD73191	LCSD73191
Duplicate Sample I.D.:	5.027	5.027
Sample Result (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:	0.226	0.275
Sample Result 2 Sigma CSU (pCi/L, g, F):	26.319	26.146
Sample Matrix Spike Result:	4.197	4.207
Sample Matrix Spike Duplicate Result:	25.198	24.355
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	4.045	3.933
MS Numerical Performance Indicator:	1.171	0.789
MSD Numerical Performance Indicator:	0.750	0.362
MS Percent Recovery:	110.68%	107.07%
MSD Percent Recovery:	106.64%	103.14%
MS Status vs Numerical Indicator:	Pass	Pass
MSD Status vs Numerical Indicator:	Pass	Pass
MS Status vs Recovery:	N/A	N/A
MSD Status vs Recovery:	N/A	N/A
MS/MSD Upper % Recovery Limits:	125%	125%
MS/MSD Lower % Recovery Limits:	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:	0.226	0.275
Sample Result 2 Sigma CSU (pCi/L, g, F):	26.319	26.146
Sample Matrix Spike Result:	4.197	4.207
Sample Matrix Spike Duplicate Result:	25.198	24.355
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	4.045	3.933
MS Numerical Performance Indicator:	1.171	0.789
MSD Numerical Performance Indicator:	0.750	0.362
MS Percent Recovery:	110.68%	107.07%
MSD Percent Recovery:	106.64%	103.14%
MS Status vs Numerical Indicator:	Pass	Pass
MSD Status vs Numerical Indicator:	Pass	Pass
MS Status vs Recovery:	N/A	N/A
MSD Status vs Recovery:	N/A	N/A
MS/MSD Upper % Recovery Limits:	125%	125%
MS/MSD Lower % Recovery Limits:	75%	75%

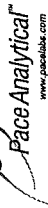
Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

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.:	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.:	
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?	See Below ##
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:		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 2 Sigma CSU (pCi/L, g, F):		0.292	
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	
Matrix Spike 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%	

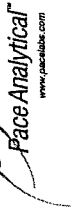
Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30586893013
Sample MS I.D.:	30586893014
Sample MSD I.D.:	30586893015
Sample Matrix Spike Result:	6.616
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.362
Sample Matrix Spike Duplicate Result:	6.114
Sample Duplicate Result 2 Sigma CSU (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:

Reinwright LCS to confirm June 12/23 possible detector issue
SAZ
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: 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:</p> <p>Sample Matrix Spike Duplicate Result:</p> <p>Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):</p> <p>Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):</p> <p>Duplicate Numerical Performance Indicator:</p> <p>(Based on the Percent Recoveries) MS/MSD Duplicate RPD:</p> <p>MS/MSD Duplicate Status vs Numerical Indicator:</p> <p>MS/MSD Duplicate Status vs RPD:</p> <p>% 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	Sample I.D.:	LCST73192	LCS/D73192
Duplicate Sample I.D.:	LCST73192	LCST73192	LCSD73192
Duplicate Result (pCi/L, g, F):	4.877	4.877	4.877
Sample Result Counting Uncertainty (pCi/L, g, F):	0.491	0.491	0.491
Sample Duplicate Result (pCi/L, g, F):	5.786	5.786	5.786
Sample Duplicate Counting Uncertainty (pCi/L, g, F):	0.546	0.546	0.546
Are sample and/or duplicate results below RL?	NO	NO	NO
Duplicate Numerical Performance Indicator:	-2.426	-2.426	-2.426
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	17.84%	17.84%	17.84%
Duplicate Status vs Numerical Indicator:	N/A	N/A	N/A
Duplicate Status vs RPD:	Pass	Pass	Pass
% RPD Limit:	25%	25%	25%

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	30586893022
Sample MS I.D.:	30586893023	30586893022	30586893023
Sample MSD I.D.:	27.213	27.213	27.213
Sample Matrix Spike Result:	25.142	25.142	25.142
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.656	1.656	1.656
Sample Matrix Spike Duplicate Result:	10.04%	10.04%	10.04%
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.699	1.699	1.699
Duplicate Numerical Performance Indicator:	N/A	N/A	N/A
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	Pass	Pass	Pass
MS/MSD Duplicate Status vs Numerical Indicator:	25%	25%	25%
MS/MSD Duplicate Status vs RPD:			
% RPD Limit:			

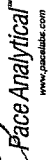
Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

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	
Sample I.D.:	Enter Duplicate
Duplicate Sample I.D.:	sample IDs if
Sample Result (pCi/L, g, F):	other than
Sample Result 2 Sigma CSU (pCi/L, g, F):	LCS/LCSD in
Sample Duplicate Result (pCi/L, g, F):	the space below.
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	See Below ##
Duplicate Numerical Performance Indicator:	
Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
Duplicate Status vs RPD:	
% 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	
Sample Matrix Spike Duplicate Result:	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
Sample Matrix Spike Duplicate Result:	1.472
Sample Matrix Spike Duplicate Result:	7.063
Sample 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
Upper % Recovery Limits:	N/A	N/A
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
0-8-23

LAN 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: MSD Numerical Performance Indicator: MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS Status vs Recovery: MSD Status vs Recovery: MS/MSD Upper % Recovery 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): 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
LCS/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
Upper % Recovery Limits:	N/A	N/A
Lower % Recovery Limits:	125%	125%
	75%	75%

Duplicate Sample Assessment	LCSD73194	LCSD73194
Sample I.D.:	LCSD73194	LCSD73194
Duplicate Sample I.D.:	5.499	5.499
Sample Result (pCi/L, g, F):	0.965	0.965
Sample Result 2 Sigma CSU (pCi/L, g, F):	4.941	4.941
Sample Duplicate Result (pCi/L, g, F):	0.850	0.850
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	NO	NO
Are sample and/or duplicate results below RL?	0.850	0.850
Duplicate Numerical Performance Indicator:	9.53%	9.53%
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	Pass	Pass
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	25%	25%
% RPD Limit:		

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.:		
Sample MS I.D.:		
Sample MSD I.D.:		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc. (pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
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:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
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 2 Sigma CSU (pCi/L, g, F):
Duplicate Numerical Performance Indicator:
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:
MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs RPD:
% RPD Limit:

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Jan 6/8/23

6/8/23

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 1/23

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
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
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.645	1.435
Duplicate Numerical Performance Indicator:	0.560	-1.451
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	Pass	Pass
% RPD Limit:	36%	36%

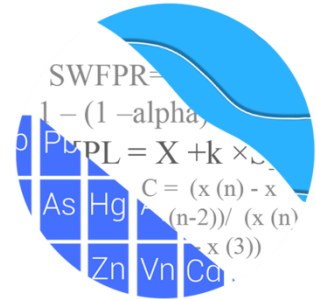
SLC 6/8/23

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,

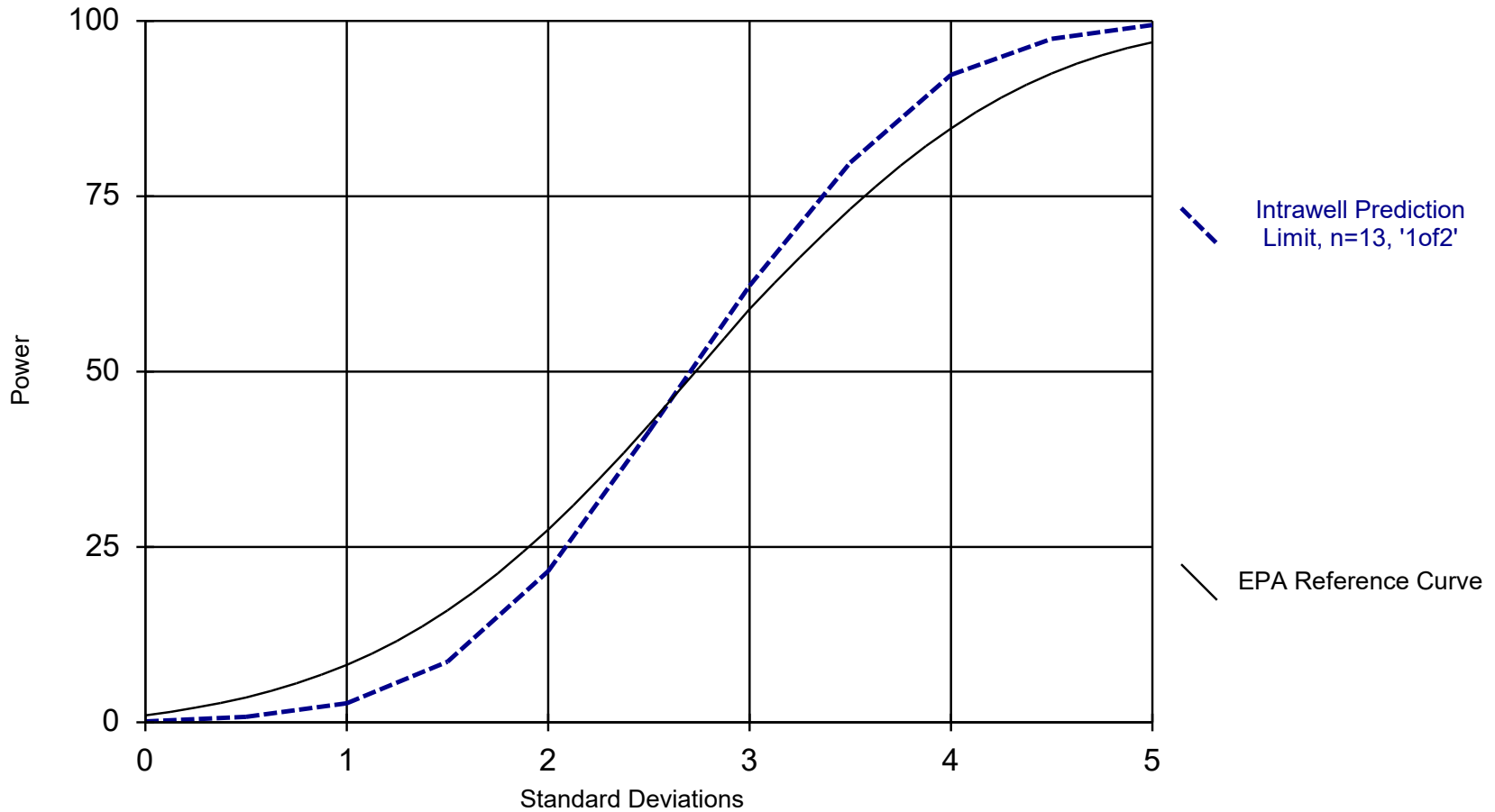


Andrew Collins
Project Manager



Kristina Rayner
Groundwater Statistician

Intrawell Power Curve

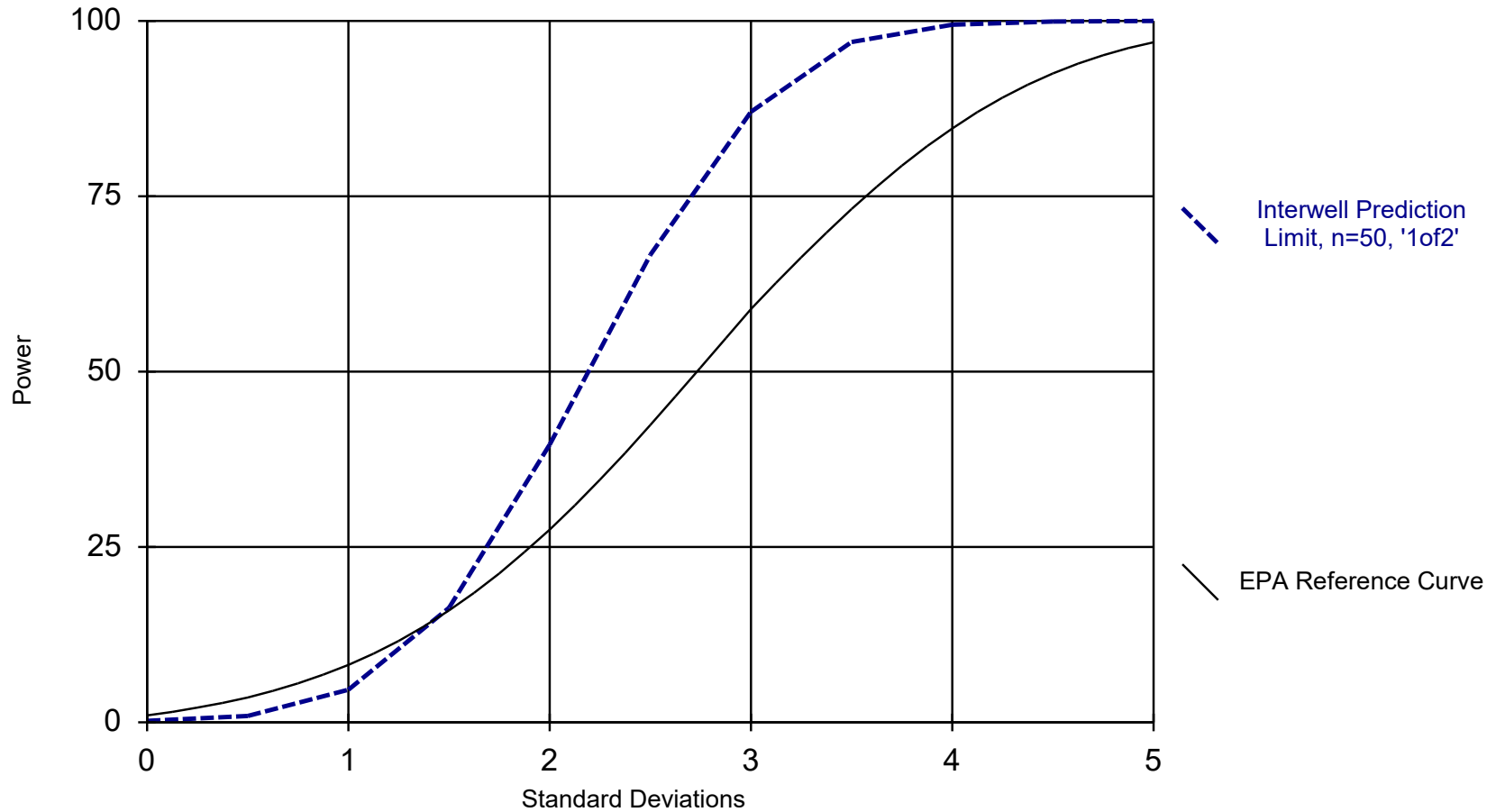


Kappa = 2.656, based on 13 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

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
Boron, total (mg/L)	MR-AP-MW-1	0.1015	n/a	5/2/2023	0.0572J	No	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-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-11	0.1015	n/a	5/3/2023	0.0402J	No	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-12	63.8	n/a	5/3/2023	30.3	No	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-3S	63.8	n/a	5/2/2023	8.78	No	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
Calcium, total (mg/L)	MR-AP-PZ-5	63.8	n/a	4/25/2023	5.85	No	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-1	21	n/a	5/2/2023	9.27	No	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-10	21	n/a	5/3/2023	7.08	No	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-11	21	n/a	5/3/2023	6.53	No	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-12	21	n/a	5/3/2023	5.56	No	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-15	21	n/a	4/19/2023	17.9	No	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-16	21	n/a	4/19/2023	5.39	No	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-2	21	n/a	5/2/2023	4.85	No	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-3D	21	n/a	5/2/2023	6.52	No	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-4	21	n/a	5/2/2023	19.6	No	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
Chloride, Total (mg/L)	MR-AP-PZ-5	21	n/a	4/25/2023	17.1	No	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-1	0.2978	n/a	5/2/2023	0.181	No	52	0.1532	0.06897	0	None	No	0.0005787	Param Inter 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-11	0.2978	n/a	5/3/2023	0.172	No	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-15	0.2978	n/a	4/19/2023	0.119J	No	52	0.1532	0.06897	0	None	No	0.0005787	Param Inter 1 of 2
Fluoride, total (mg/L)	MR-AP-MW-16	0.2978	n/a	4/19/2023	0.16	No	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-4	0.2978	n/a	5/2/2023	0.17	No	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-MW-6	0.2978	n/a	4/25/2023	0.0863J	No	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

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.

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)

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
Chromium (mg/L)	MR-AP-MW-4	0.001015	0.000278	0.1	No	8	0.0008323	0.0003384	75	None	No	0.004	NP (NDs)
Chromium (mg/L)	MR-AP-MW-5	0.001015	0.00027	0.1	No	8	0.0009219	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	0.0007251	0.0004001	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	MR-AP-MW-7DR	0.001015	0.000282	0.1	No	6	0.0007737	0.0003739	66.67	None	No	0.0155	NP (NDs)
Chromium (mg/L)	MR-AP-MW-7SR	0.001015	0.000219	0.1	No	6	0.000624	0.0004284	50	None	No	0.0155	NP (normality)
Chromium (mg/L)	MR-AP-MW-9DR	0.001015	0.00024	0.1	No	6	0.0005258	0.0003796	33.33	None	No	0.0155	NP (normality)
Chromium (mg/L)	MR-AP-MW-9SR	0.001015	0.0002	0.1	No	6	0.0006265	0.0004274	50	None	No	0.0155	NP (normality)
Chromium (mg/L)	MR-AP-PZ-5	0.001015	0.00021	0.1	No	8	0.0008175	0.0003658	75	None	No	0.004	NP (NDs)
Cobalt (mg/L)	MR-AP-MW-1	0.0008122	0.000103	0.006	No	8	0.00215	0.00238	37.5	Kaplan-Meier	ln(x)	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-10	0.001304	0.0003286	0.006	No	8	0.002369	0.002208	37.5	Kaplan-Meier	ln(x)	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-11	0.000203	0.000077	0.006	No	8	0.0001873	0.00004455	87.5	Kaplan-Meier	No	0.004	NP (NDs)
Cobalt (mg/L)	MR-AP-MW-12	0.005	0.000717	0.006	No	8	0.00267	0.001948	37.5	None	No	0.004	NP (normality)
Cobalt (mg/L)	MR-AP-MW-13DR	0.005	0.00066	0.006	No	6	0.001488	0.001723	16.67	None	No	0.0155	NP (normality)
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-14R	0.000203	0.0000688	0.006	No	6	0.0001806	0.00005479	83.33	None	No	0.0155	NP (NDs)
Cobalt (mg/L)	MR-AP-MW-15	0.01115	0.00005165	0.006	No	8	0.006327	0.008323	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-16	0.005737	0.002161	0.006	No	8	0.003949	0.001687	12.5	None	No	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.
Cobalt (mg/L)	MR-AP-MW-3D	0.005304	0.003844	0.006	No	8	0.004574	0.0006888	0	None	No	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-3S	0.0002	0.00012	0.006	No	8	0.00019	0.00002828	87.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	MR-AP-MW-4	0.0129	0.003322	0.006	No	8	0.008113	0.00452	0	None	No	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-6	0.01721	0.004291	0.006	No	8	0.01065	0.008459	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-7SR	0.005	0.00067	0.006	No	6	0.001591	0.001699	16.67	None	No	0.0155	NP (normality)
Cobalt (mg/L)	MR-AP-MW-9DR	0.005	0.00011	0.006	No	6	0.0009582	0.00198	16.67	None	No	0.0155	NP (normality)
Cobalt (mg/L)	MR-AP-MW-9SR	0.005	0.000115	0.006	No	6	0.001038	0.001944	16.67	None	No	0.0155	NP (normality)
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-1	1.069	0.3463	5	No	8	0.7075	0.3408	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-10	1.124	0.2924	5	No	8	0.7084	0.3925	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-11	0.5558	0.1588	5	No	8	0.3573	0.1873	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-12	1.049	0.2829	5	No	8	0.6524	0.4038	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-13DR	0.8997	0.2763	5	No	6	0.588	0.2269	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-13SR	1.436	0.5423	5	No	6	0.989	0.3252	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-14R	0.9061	-0.1254	5	No	6	0.3903	0.3754	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-15	0.7504	0.09511	5	No	8	0.4228	0.3091	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-16	0.5502	0.1006	5	No	8	0.3254	0.212	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-2	0.811	0.3542	5	No	8	0.5826	0.2155	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-3D	0.9163	0.0462	5	No	8	0.4813	0.4104	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-3S	1.025	0.009198	5	No	8	0.5169	0.4789	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-4	0.4989	0.2316	5	No	8	0.3653	0.1261	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-5	1.132	0.1835	5	No	8	0.6579	0.4475	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-6	0.3341	0.1429	5	No	8	0.2385	0.0902	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-7DR	1.303	0.007039	5	No	6	0.6548	0.4716	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-7SR	0.878	0.3784	5	No	6	0.6282	0.1818	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-9DR	1.197	0.1699	5	No	6	0.6835	0.3739	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-9SR	0.6398	0.09291	5	No	6	0.3663	0.199	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-PZ-5	0.7523	0.1192	5	No	8	0.4207	0.3348	0	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-1	0.1829	0.1516	4	No	8	0.1673	0.01479	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-10	1.292	0.4283	4	No	8	0.8473	0.464	0	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-11	0.1514	0.1006	4	No	8	0.126	0.02396	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-12	1.137	0.8642	4	No	8	1	0.1285	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-13DR	0.241	0.113	4	No	6	0.177	0.0466	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-13SR	0.6282	0.1958	4	No	6	0.412	0.1574	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-14R	0.2063	0.155	4	No	6	0.1807	0.01866	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-15	0.1252	0.08808	4	No	8	0.1066	0.01997	12.5	None	x^2	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-16	0.29	0.14	4	No	8	0.1734	0.0491	0	None	No	0.004	NP (normality)
Fluoride, total (mg/L)	MR-AP-MW-2	0.3395	0.194	4	No	8	0.2668	0.06868	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-3D	0.4057	0.3396	4	No	8	0.3726	0.03116	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-3S	0.361	0.286	4	No	8	0.3084	0.02334	0	None	No	0.004	NP (normality)
Fluoride, total (mg/L)	MR-AP-MW-4	0.2612	0.1733	4	No	8	0.2173	0.04144	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-5	0.433	0.382	4	No	8	0.4035	0.02161	0	None	No	0.004	NP (normality)
Fluoride, total (mg/L)	MR-AP-MW-6	0.1574	0.07754	4	No	8	0.1175	0.03768	12.5	None	No	0.01	Param.

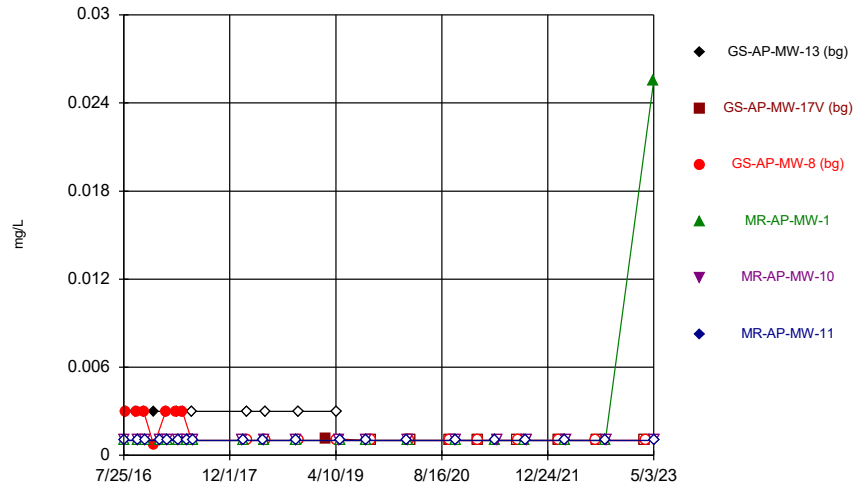
Confidence Intervals - All Results

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
Fluoride, total (mg/L)	MR-AP-MW-7DR	0.16	0.115	4	No	6	0.1288	0.01579	33.33	None	No	0.0155	NP (normality)
Fluoride, total (mg/L)	MR-AP-MW-7SR	0.254	0.1807	4	No	6	0.2173	0.02666	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-9DR	0.2581	0.0899	4	No	6	0.174	0.06122	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-9SR	0.162	0.0852	4	No	6	0.1236	0.02794	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-PZ-5	2.388	1.965	4	No	8	2.176	0.1997	0	None	No	0.01	Param.
Lead (mg/L)	MR-AP-MW-13DR	0.000203	0.000121	0.015	No	6	0.0001893	0.00003348	83.33	None	No	0.0155	NP (NDs)
Lead (mg/L)	MR-AP-MW-13SR	0.0007862	0.00004217	0.015	No	6	0.0003533	0.0003356	50	Kaplan-Meier	x^(1/3)	0.01	Param.
Lead (mg/L)	MR-AP-MW-3D	0.000203	0.000084	0.015	No	8	0.0001881	0.00004207	87.5	Kaplan-Meier	No	0.004	NP (NDs)
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-13DR	0.03872	0.03188	0.04	No	6	0.0353	0.002492	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-13SR	0.04064	0.01731	0.04	No	6	0.02773	0.01011	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	MR-AP-MW-14R	0.02139	0.01981	0.04	No	6	0.0206	0.0005762	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-15	0.02201	0.01831	0.04	No	8	0.02015	0.001769	0	None	x^(1/3)	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-MW-9SR	0.04733	0.03974	0.04	No	6	0.04353	0.002761	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-1	0.0142	0.005075	0.1	No	8	0.007668	0.003368	12.5	None	No	0.004	NP (normality)
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-11	0.01015	0.00039	0.1	No	8	0.005495	0.004985	50	None	No	0.004	NP (normality)
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.
Molybdenum (mg/L)	MR-AP-MW-13DR	0.005378	0.002076	0.1	No	6	0.004722	0.002942	16.67	Kaplan-Meier	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-13SR	0.01015	0.00011	0.1	No	6	0.002328	0.004008	16.67	None	No	0.0155	NP (normality)
Molybdenum (mg/L)	MR-AP-MW-14R	0.01015	0.00009	0.1	No	6	0.005136	0.005492	50	None	No	0.0155	NP (normality)
Molybdenum (mg/L)	MR-AP-MW-15	0.01015	0.00008	0.1	No	8	0.006432	0.005133	62.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	MR-AP-MW-16	0.08468	0.02644	0.1	No	8	0.05556	0.02747	0	None	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-2	0.01015	0.00166	0.1	No	8	0.005333	0.004093	37.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	MR-AP-MW-3D	0.0278	0.02432	0.1	No	8	0.02606	0.001642	0	None	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-3S	0.06223	0.04619	0.1	No	8	0.05421	0.007566	0	None	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-4	0.01015	0.00007	0.1	No	8	0.005127	0.00537	50	None	No	0.004	NP (normality)
Molybdenum (mg/L)	MR-AP-MW-5	0.0934	0.0709	0.1	No	8	0.07948	0.009254	0	None	No	0.004	NP (normality)
Molybdenum (mg/L)	MR-AP-MW-6	0.01015	0.00135	0.1	No	8	0.004066	0.003796	25	None	No	0.004	NP (normality)
Molybdenum (mg/L)	MR-AP-MW-7DR	0.006596	0.003432	0.1	No	6	0.00587	0.002392	16.67	Kaplan-Meier	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-7SR	0.03652	0.02928	0.1	No	6	0.0329	0.002632	0	None	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-9DR	0.01015	0.000304	0.1	No	6	0.003746	0.004973	33.33	None	No	0.0155	NP (normality)
Molybdenum (mg/L)	MR-AP-MW-9SR	0.00202	0.0001632	0.1	No	6	0.00247	0.003836	16.67	Kaplan-Meier	x^(1/3)	0.01	Param.
Molybdenum (mg/L)	MR-AP-PZ-5	0.01015	0.000184	0.1	No	8	0.00523	0.00526	50	None	No	0.004	NP (normality)
Selenium (mg/L)	MR-AP-MW-13SR	0.001015	0.000598	0.05	No	6	0.0009455	0.0001702	83.33	None	No	0.0155	NP (NDs)
Selenium (mg/L)	MR-AP-MW-16	0.005353	0.001114	0.05	No	8	0.002924	0.002227	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Selenium (mg/L)	MR-AP-MW-4	0.00112	0.000539	0.05	No	8	0.0009411	0.0001905	62.5	Kaplan-Meier	No	0.004	NP (NDs)
Thallium (mg/L)	MR-AP-MW-13SR	0.001	0.0000701	0.002	No	6	0.0002674	0.0003611	16.67	None	No	0.0155	NP (normality)
Thallium (mg/L)	MR-AP-MW-16	0.0002	0.00007	0.002	No	8	0.0001677	0.00005976	75	None	No	0.004	NP (NDs)
Thallium (mg/L)	MR-AP-MW-4	0.0002	0.00007	0.002	No	8	0.0001837	0.00004596	87.5	None	No	0.004	NP (NDs)

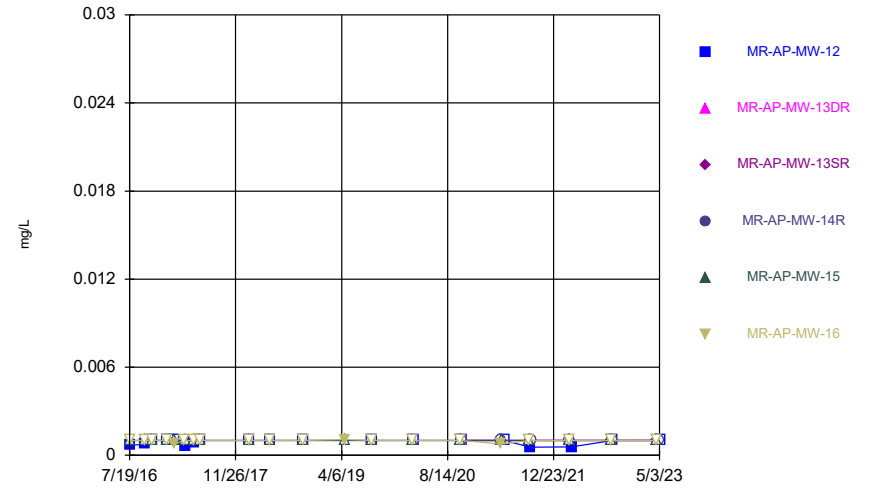
FIGURE A.

Time Series



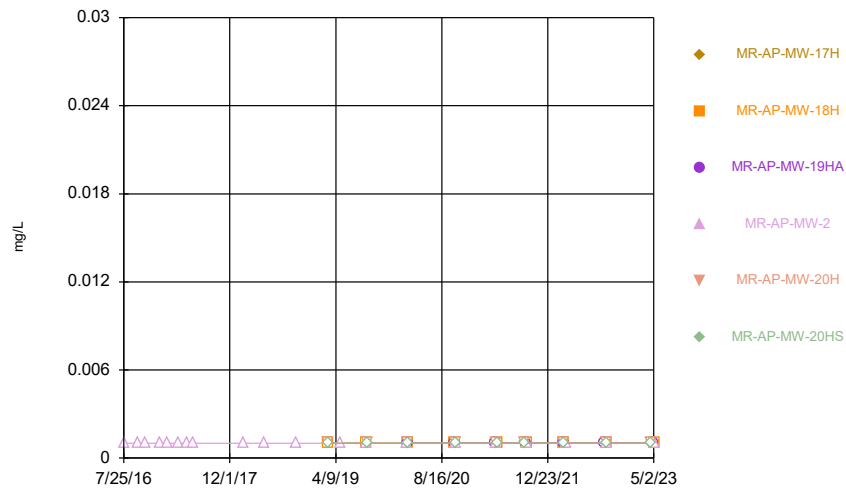
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



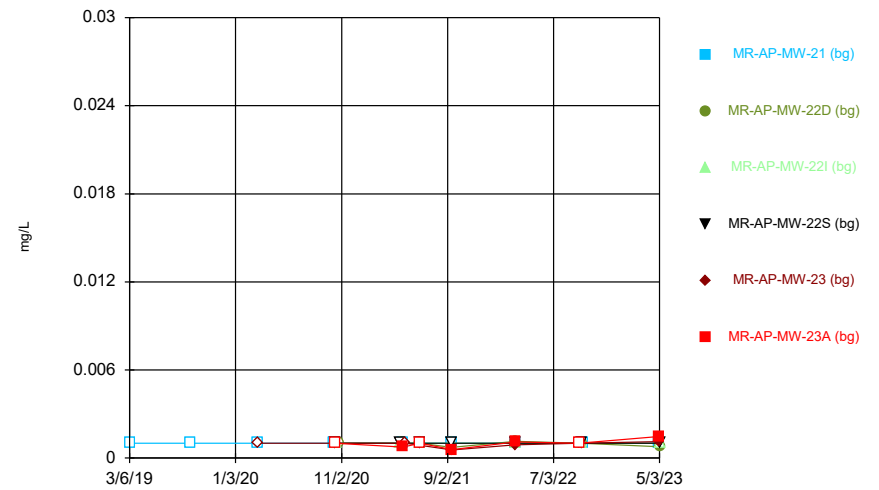
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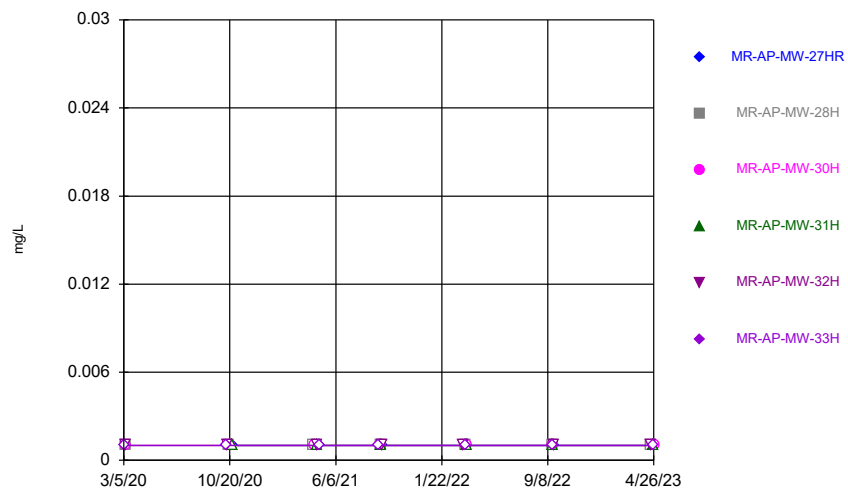
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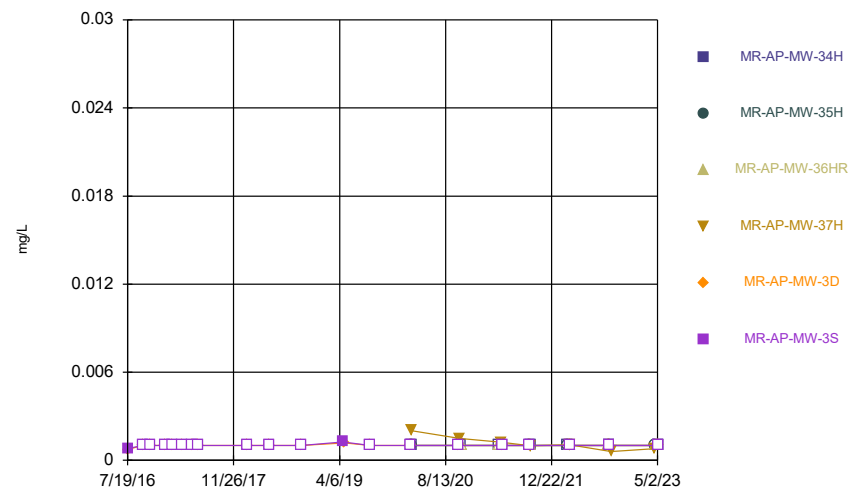


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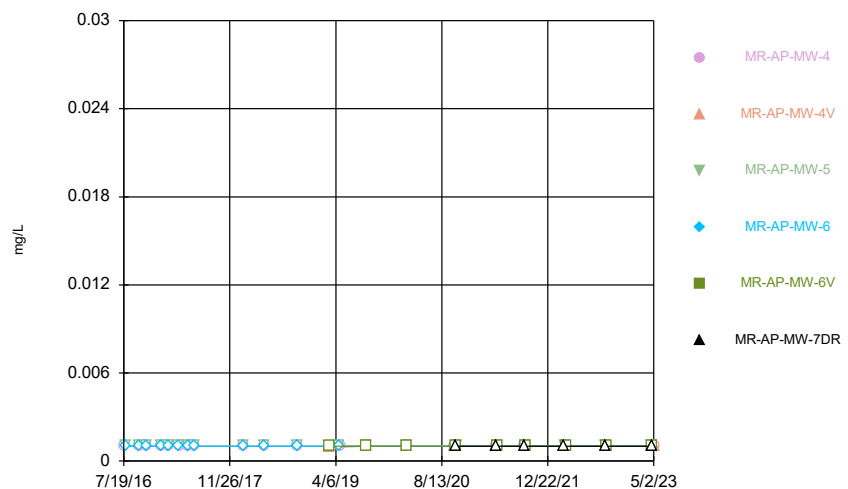
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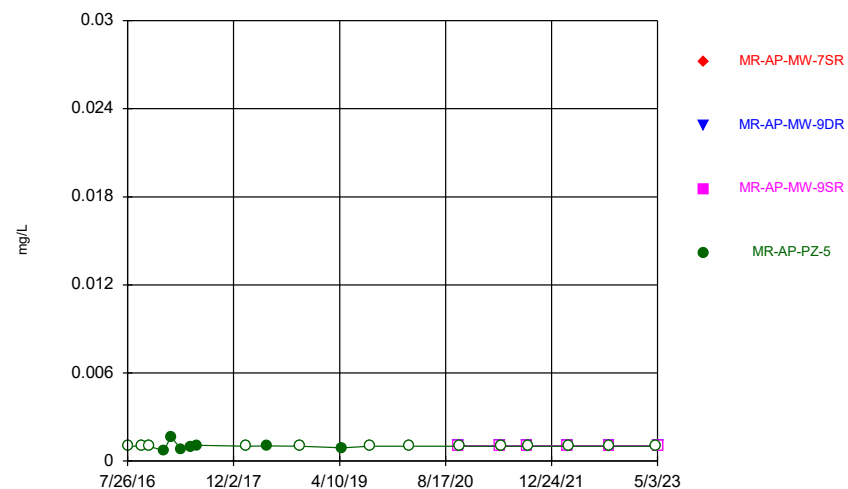
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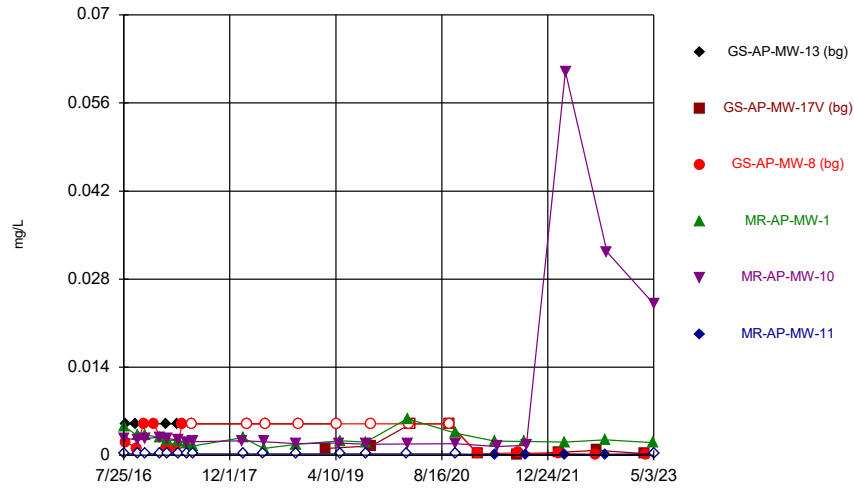
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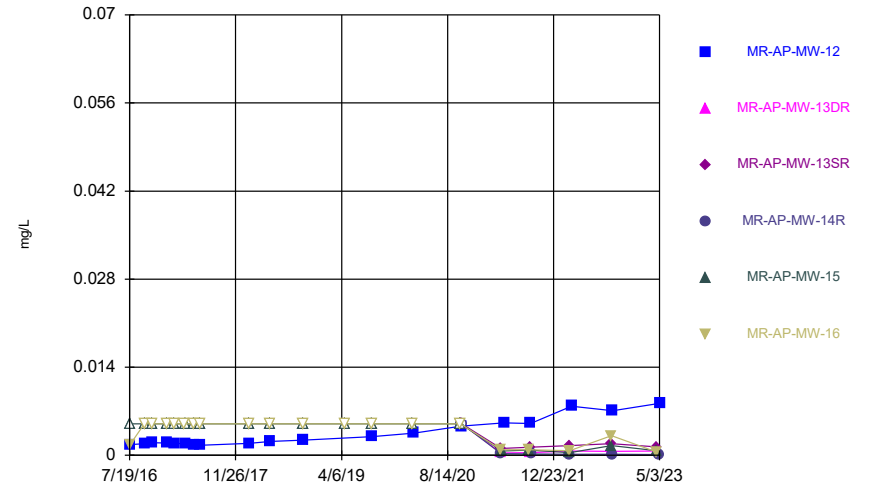


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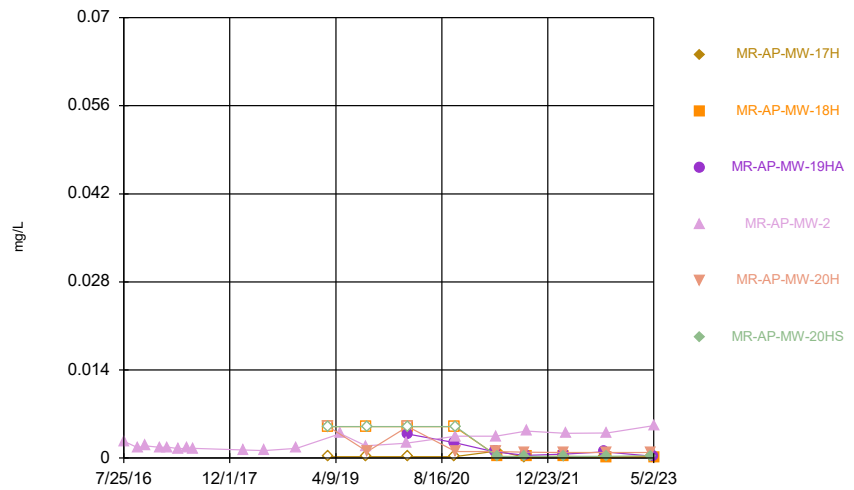
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Time Series



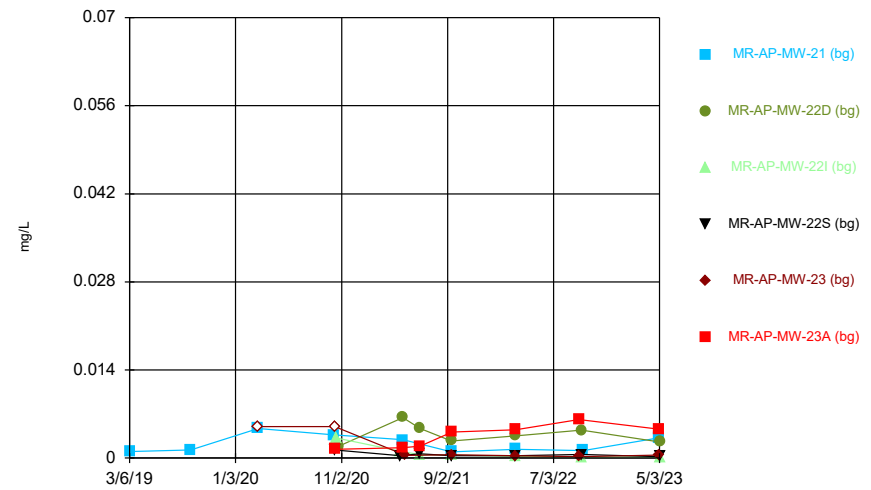
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Time Series



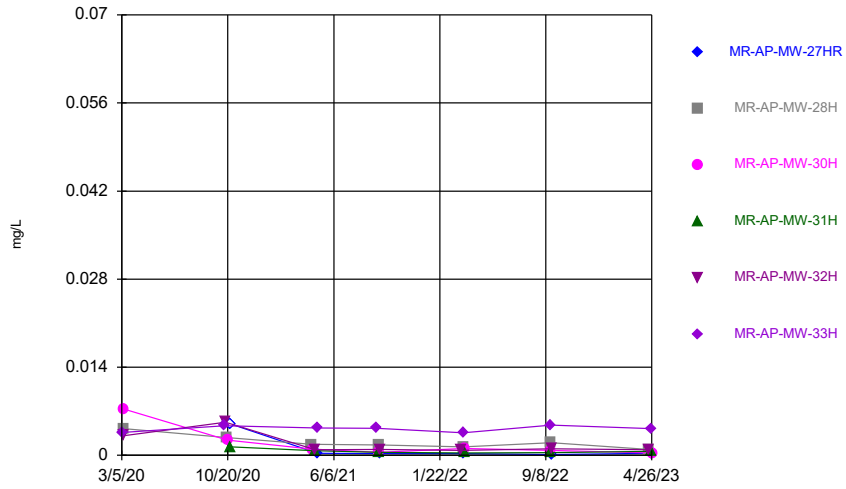
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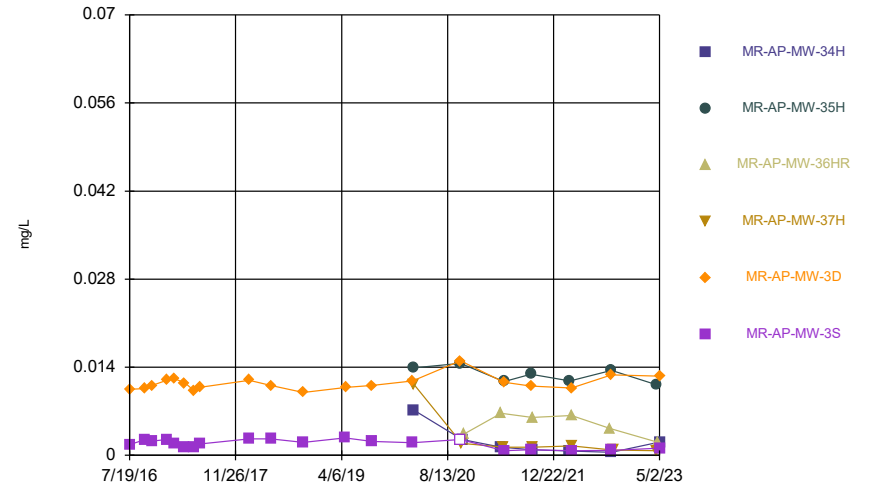
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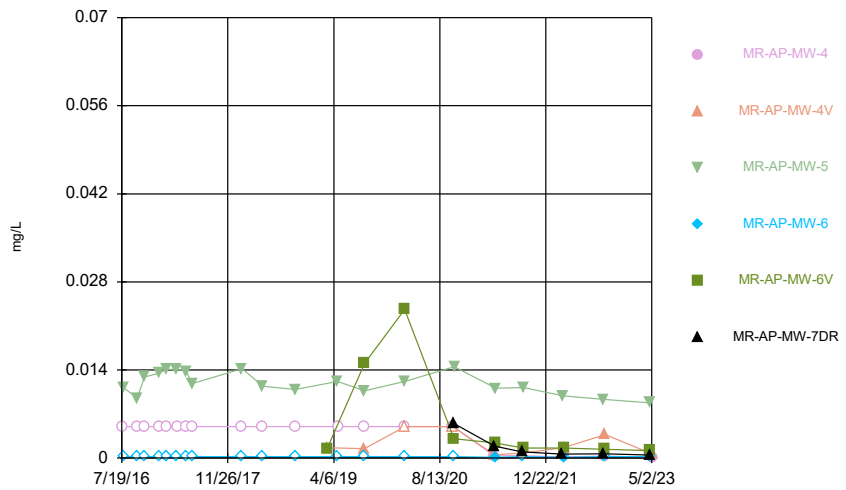
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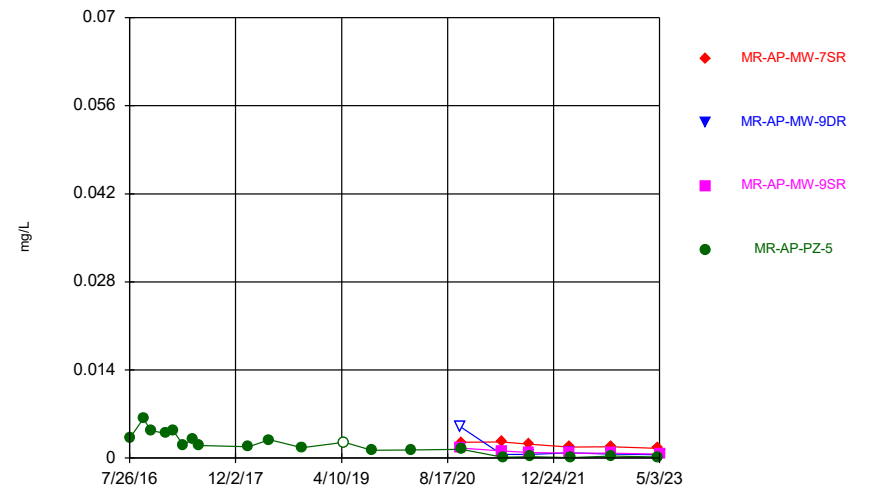
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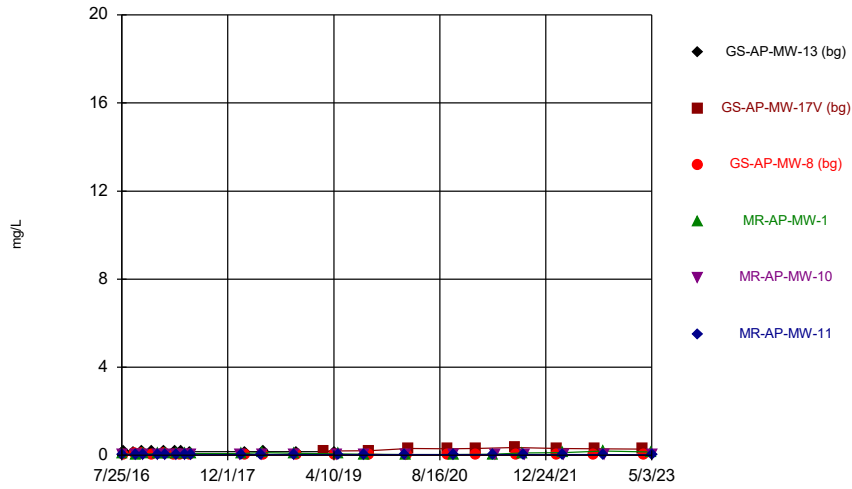
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



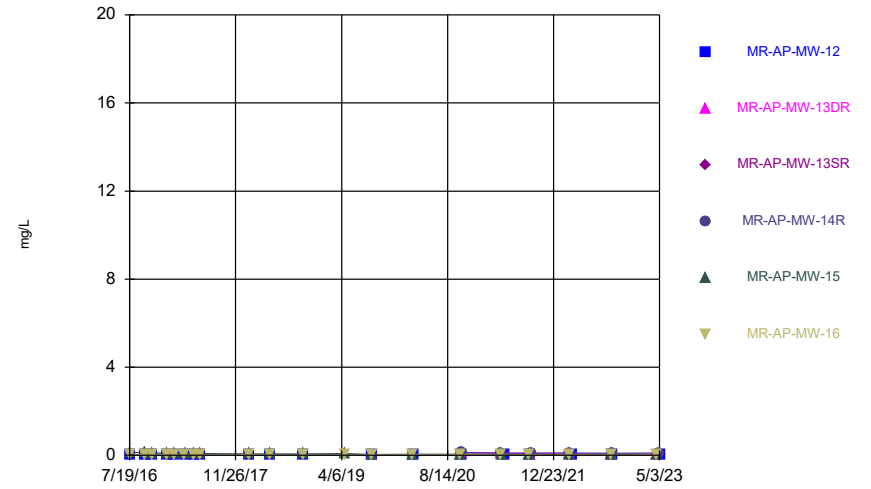
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Time Series



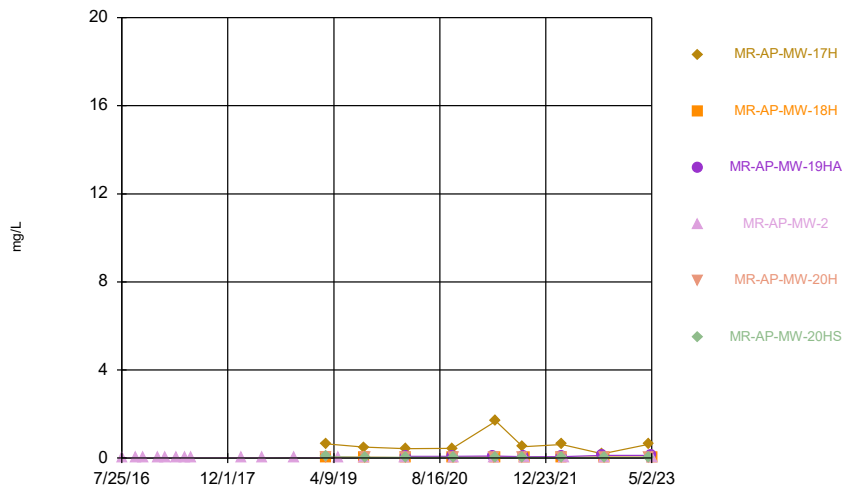
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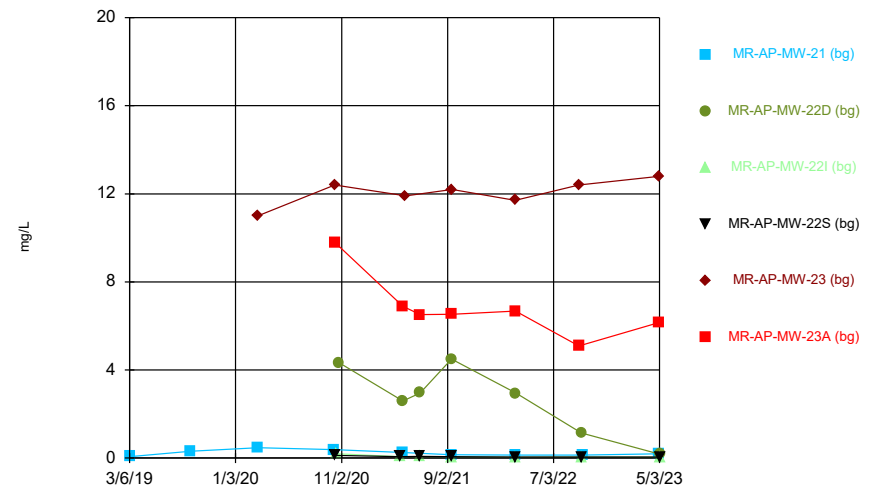
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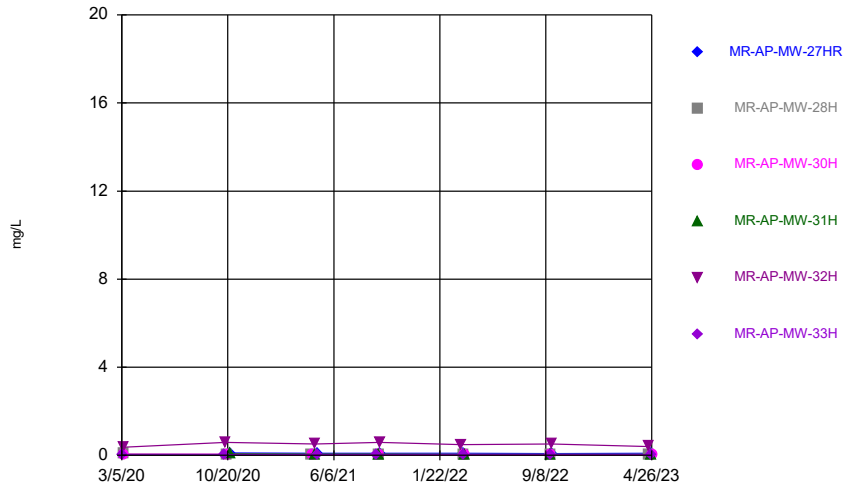
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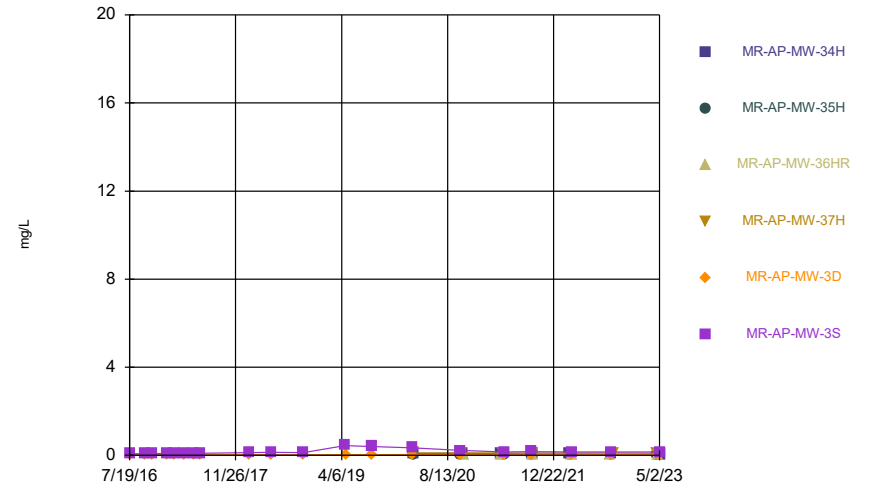
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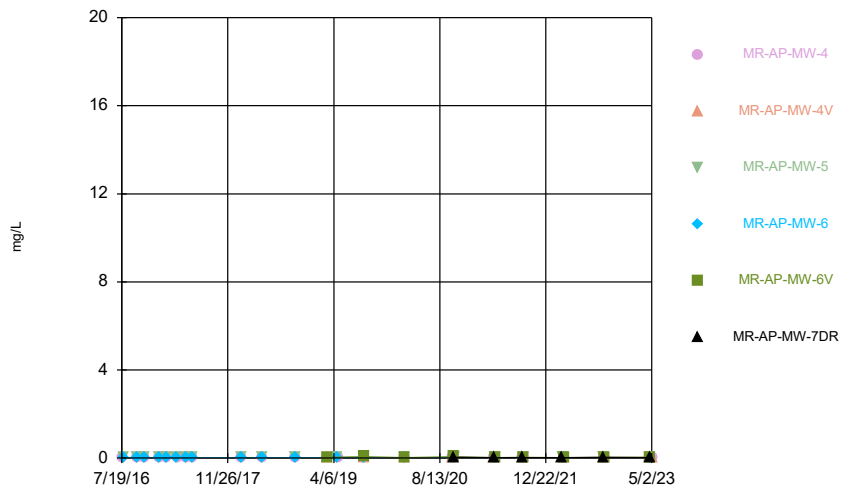
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



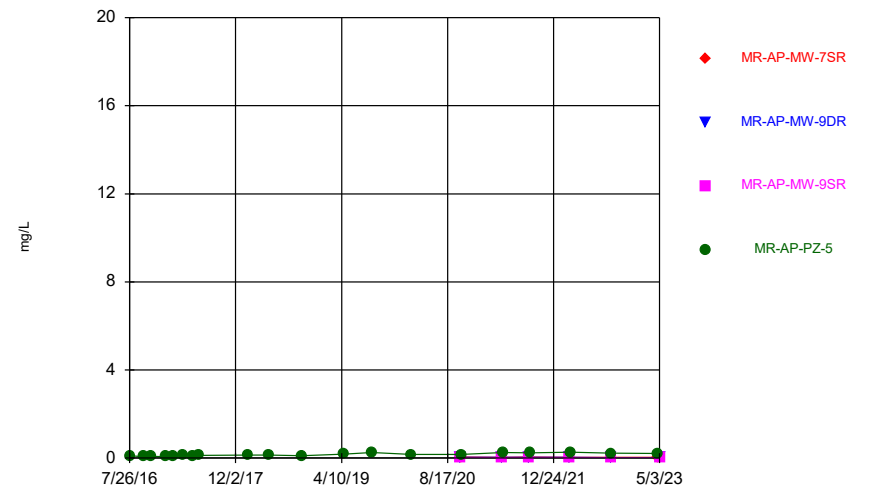
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



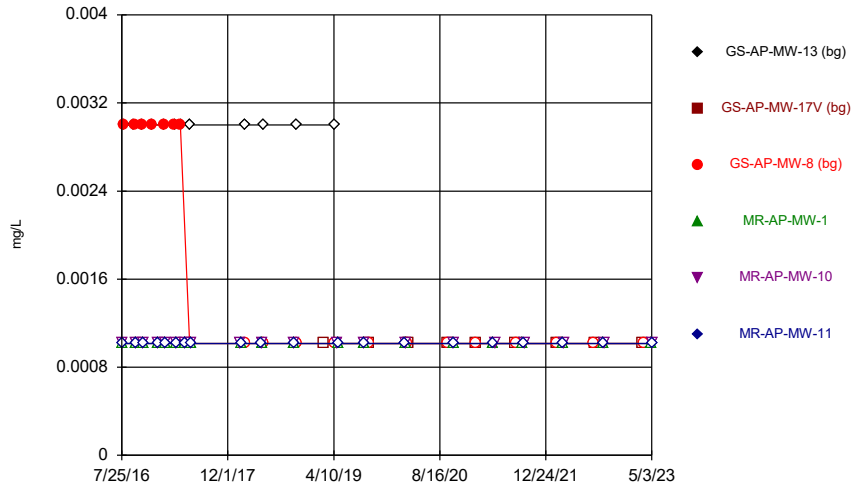
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Time Series



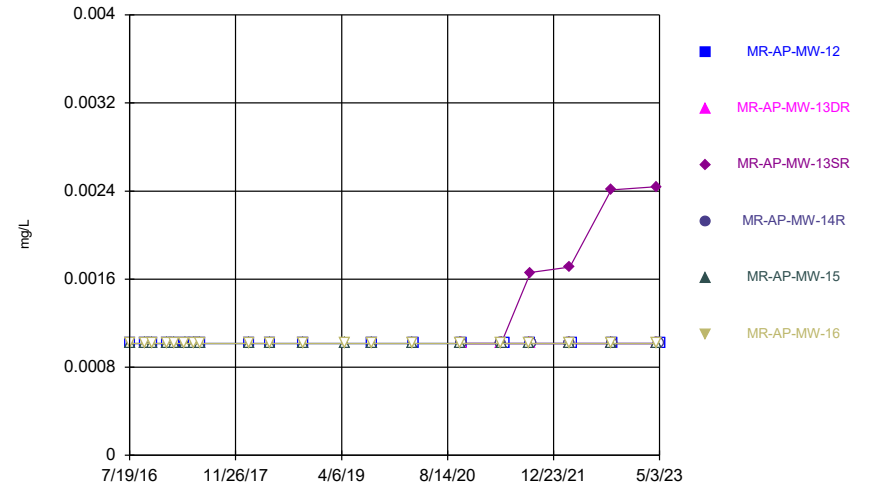
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



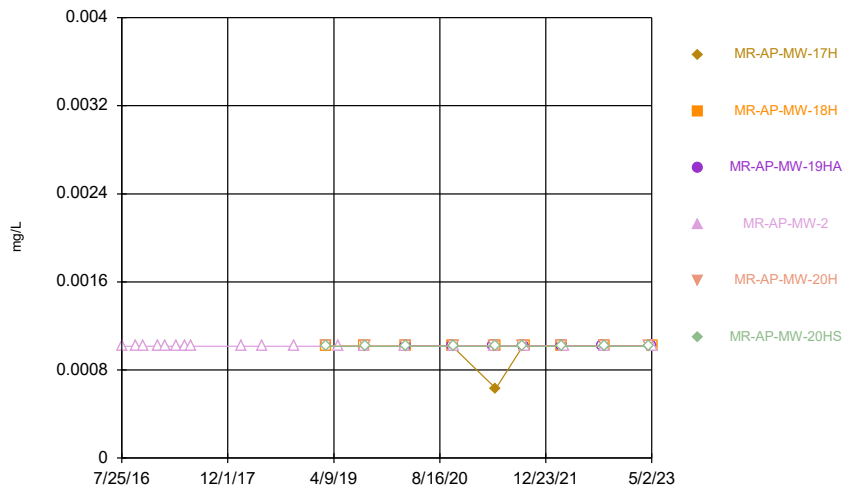
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Time Series



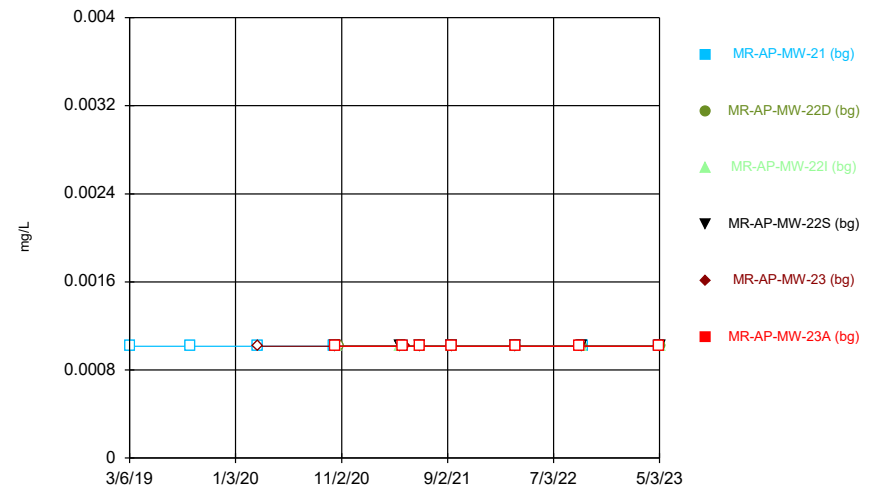
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Time Series



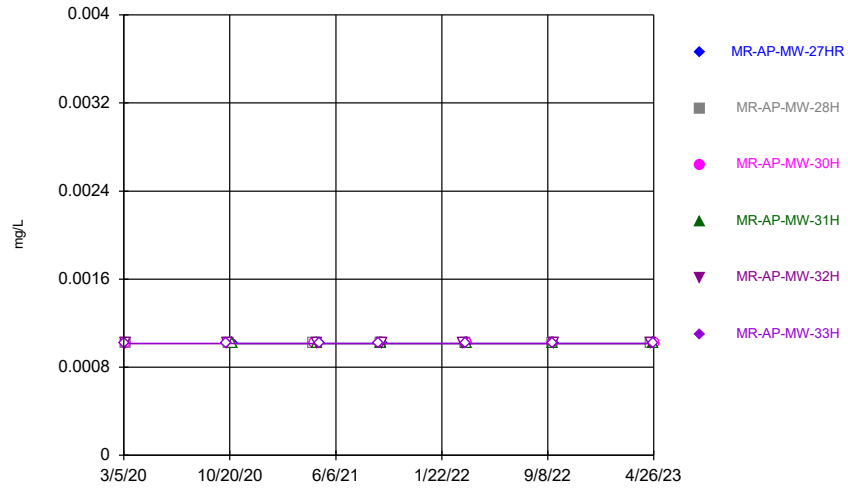
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Time Series



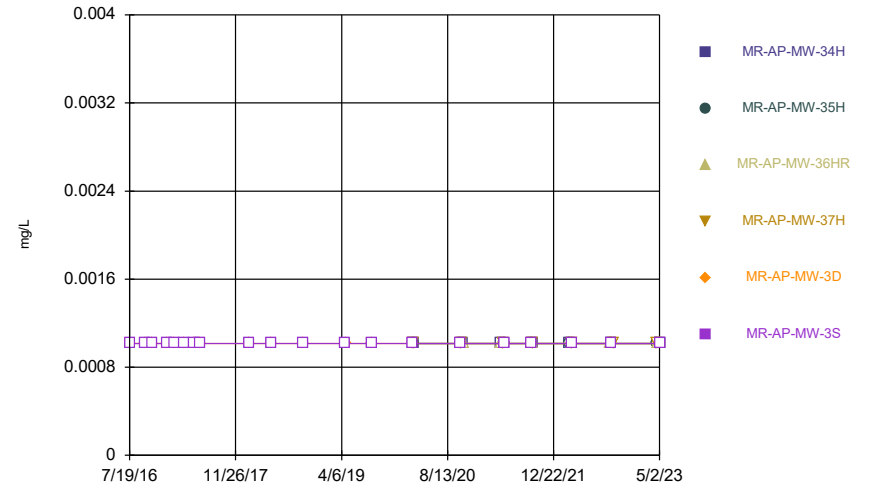
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Time Series



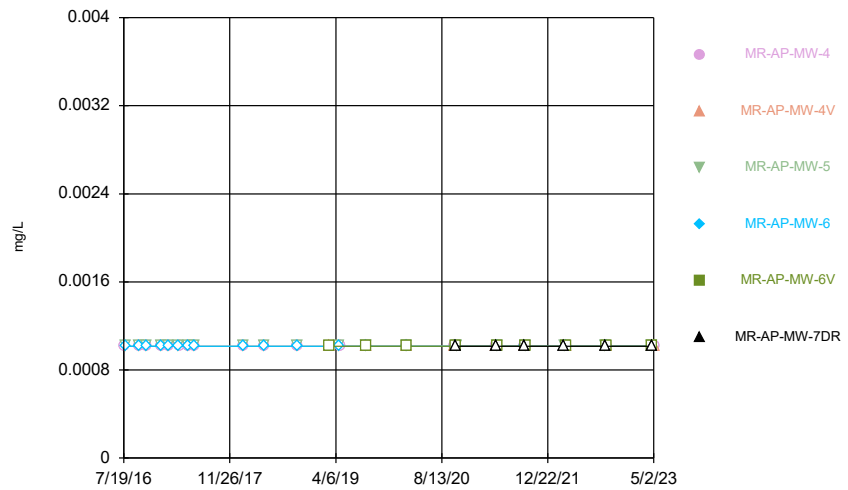
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Time Series



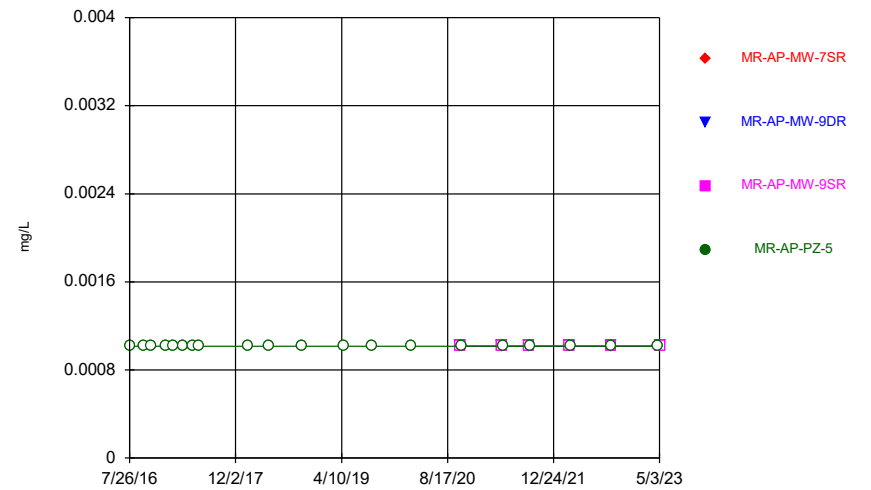
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Time Series



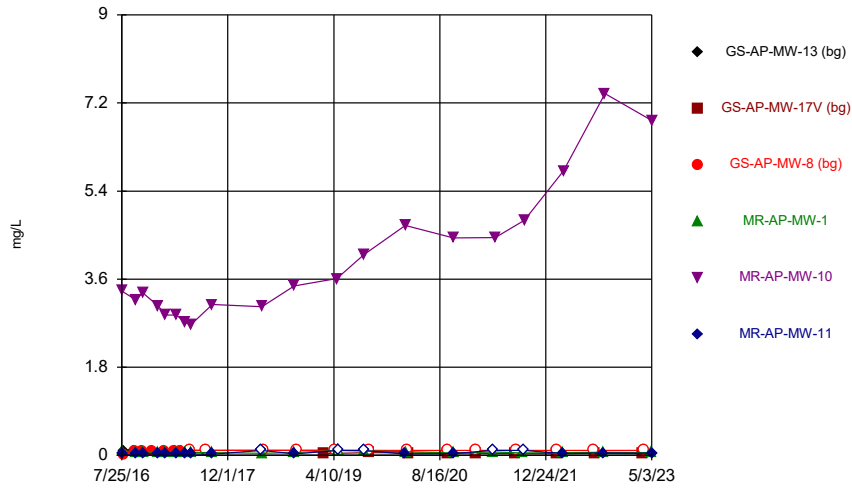
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Time Series



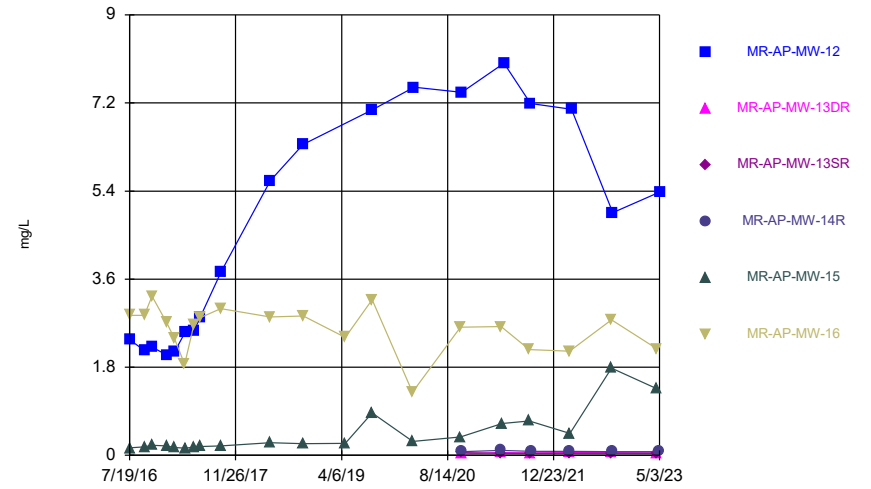
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Time Series



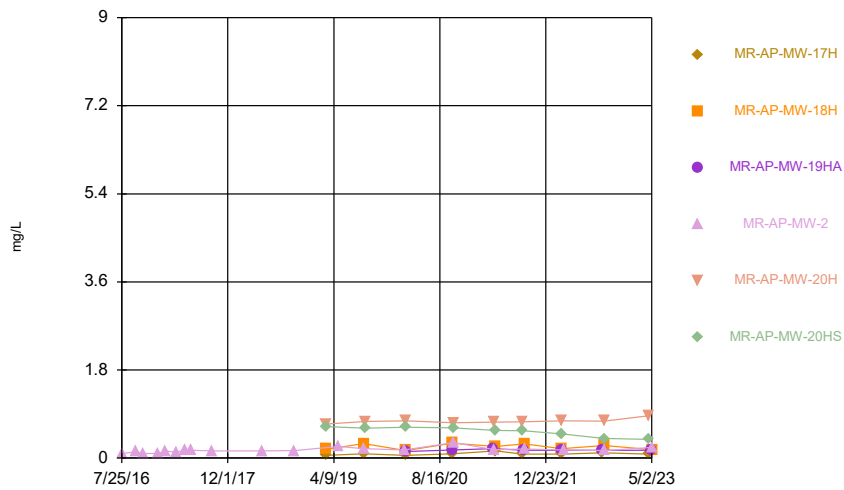
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Time Series



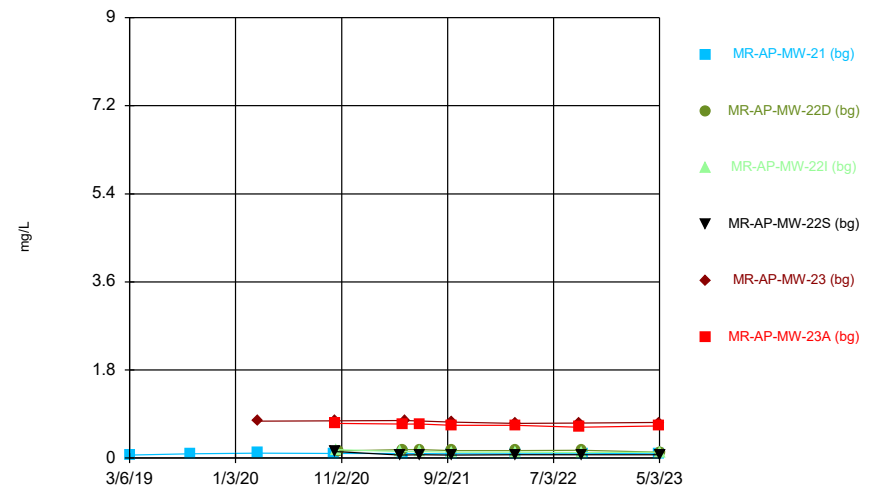
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Time Series



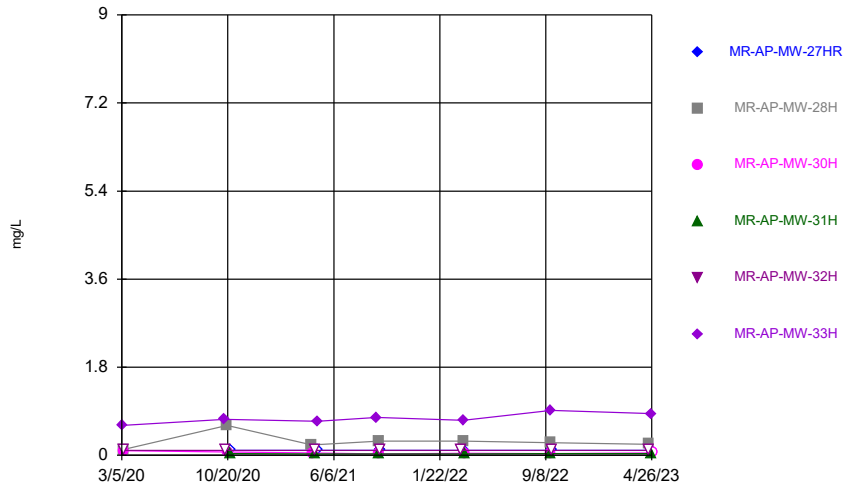
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Time Series



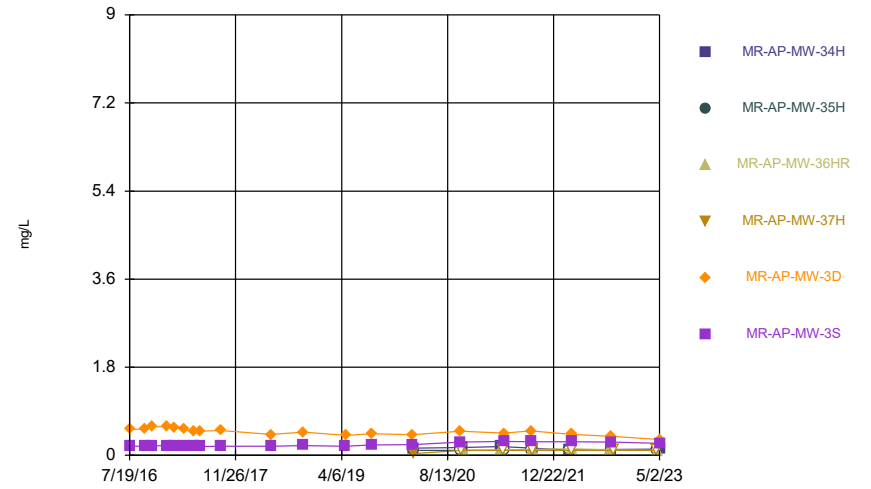
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Time Series



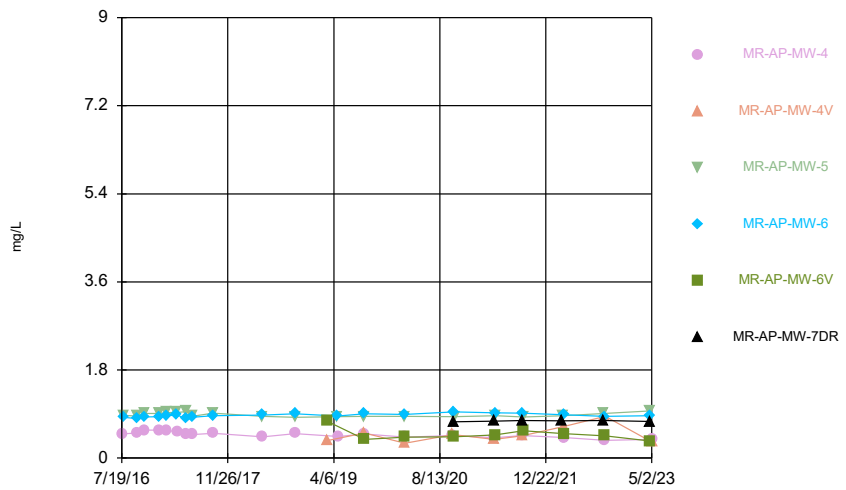
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Time Series



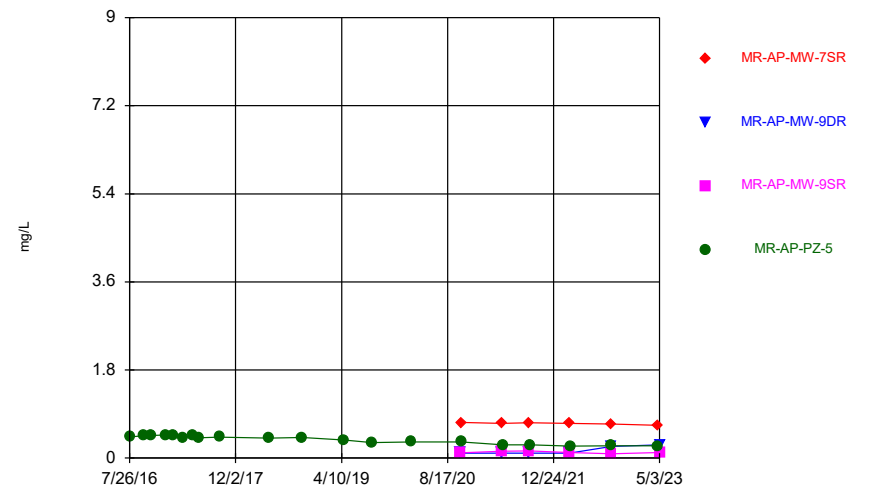
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Time Series



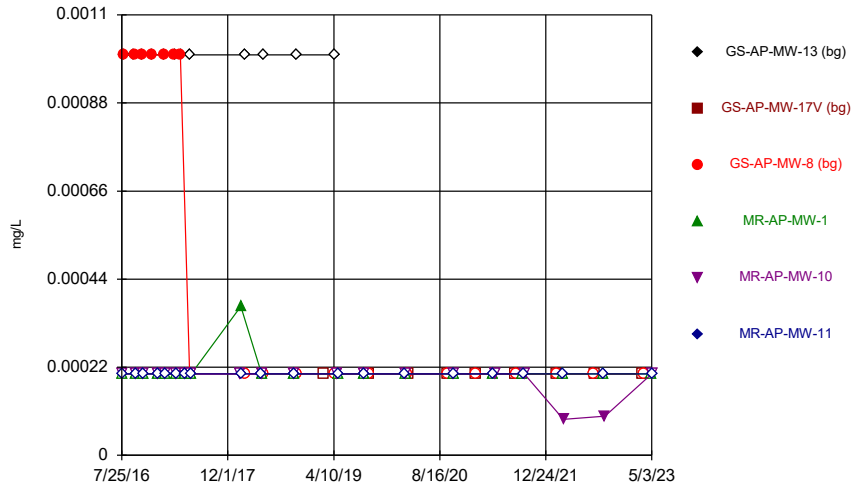
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Time Series



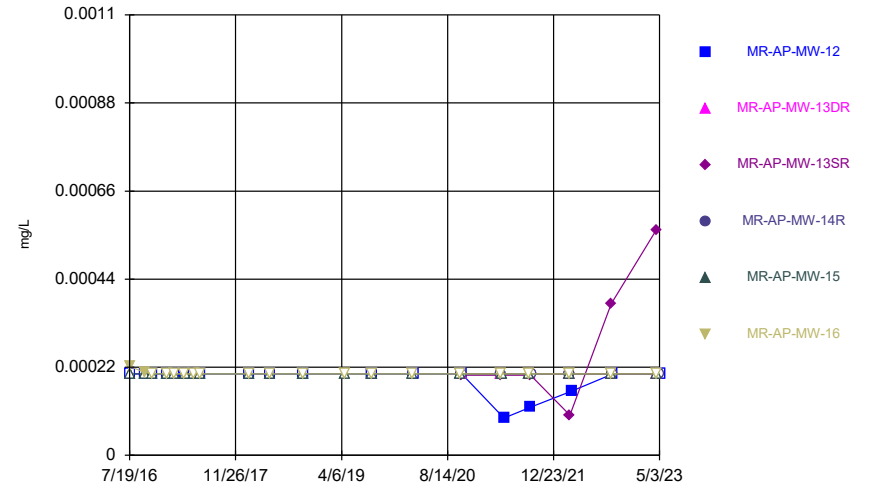
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



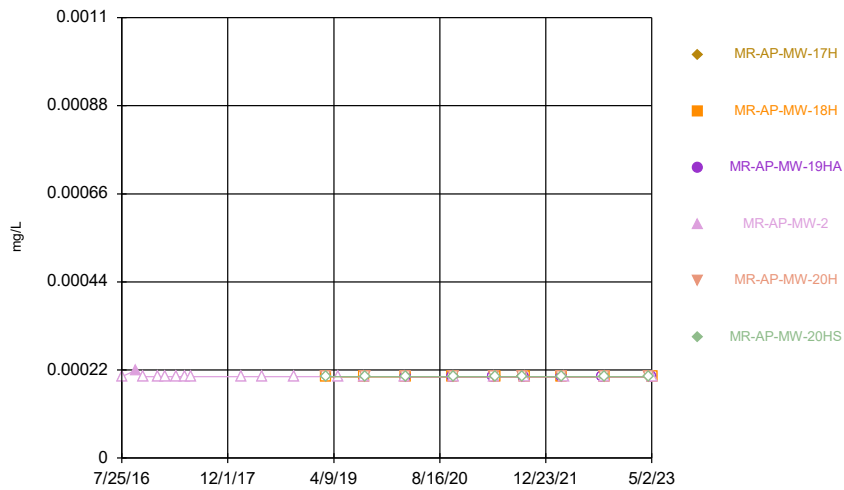
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Time Series



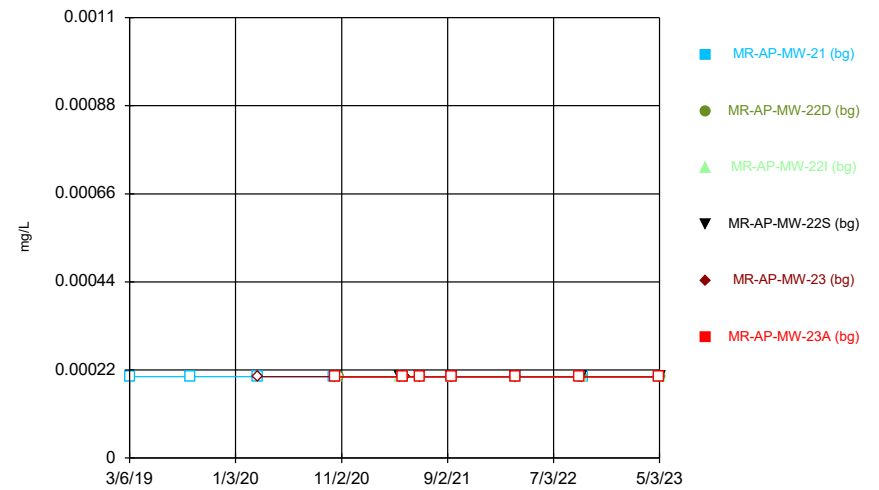
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



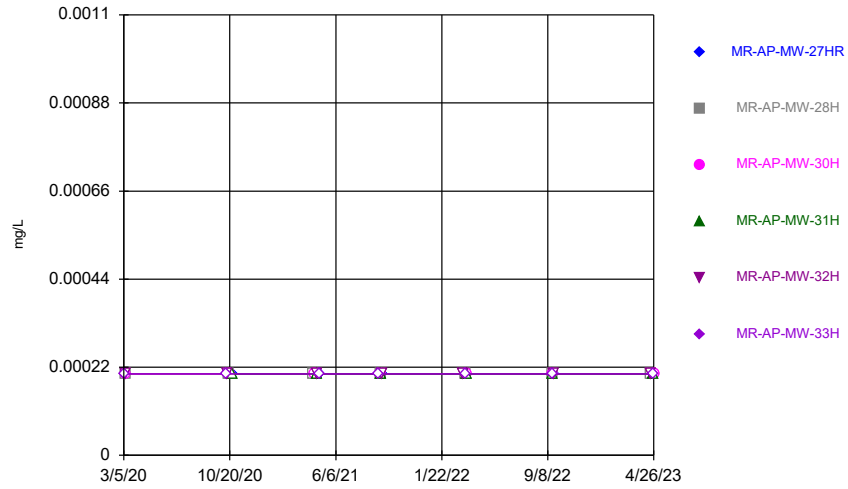
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Time Series



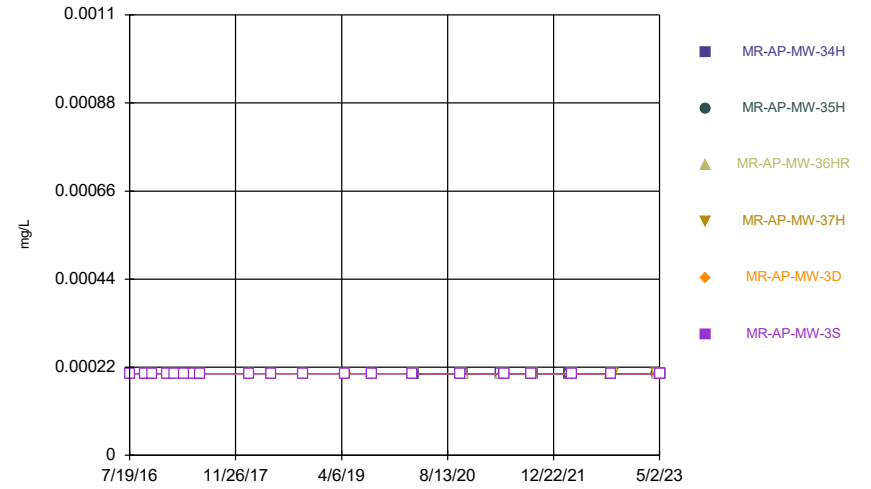
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Time Series



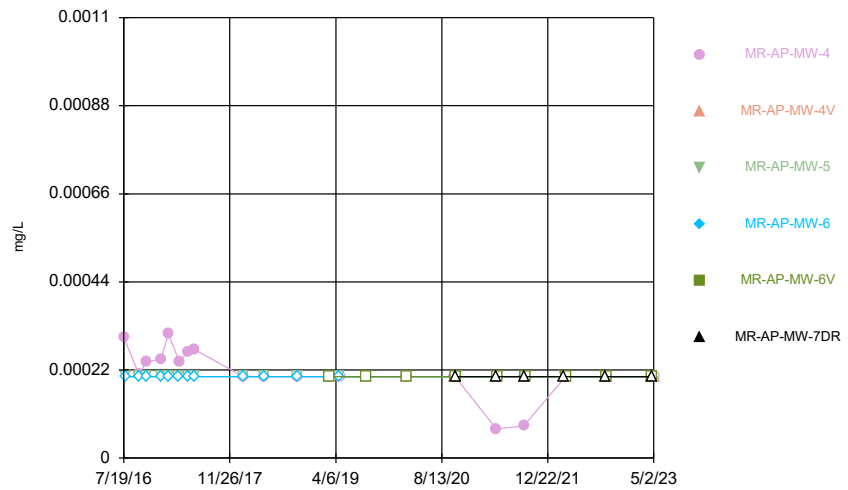
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Time Series



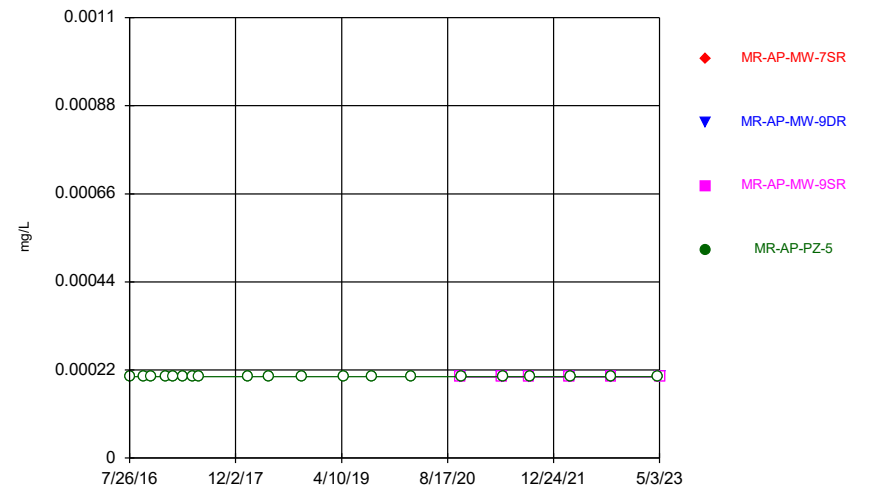
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Time Series



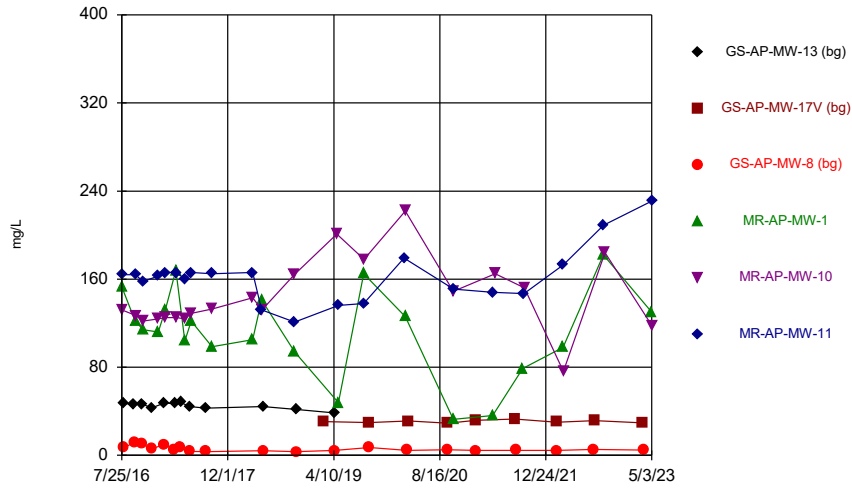
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Time Series



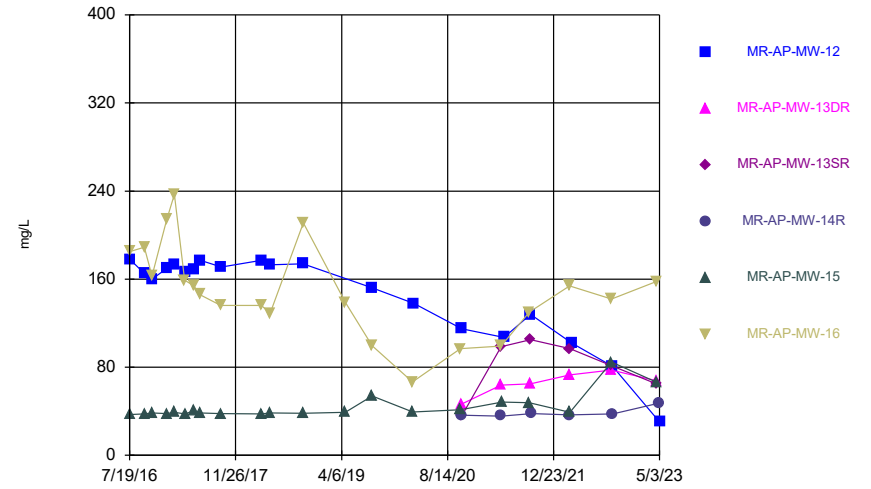
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



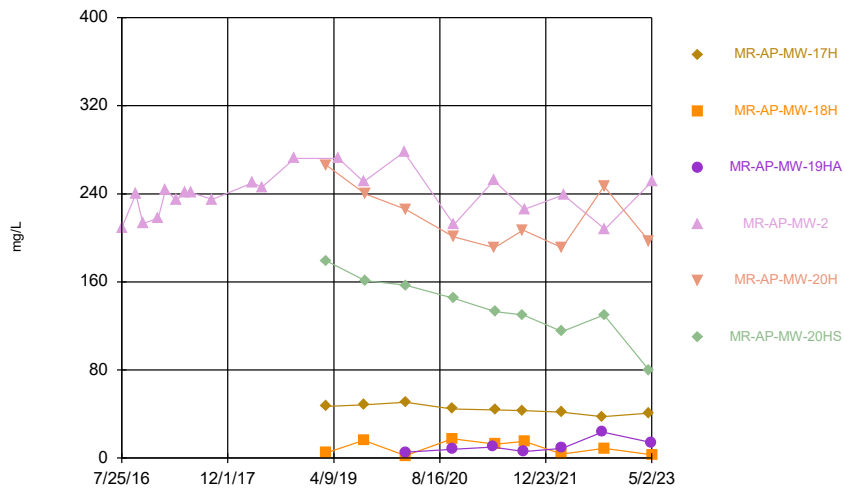
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



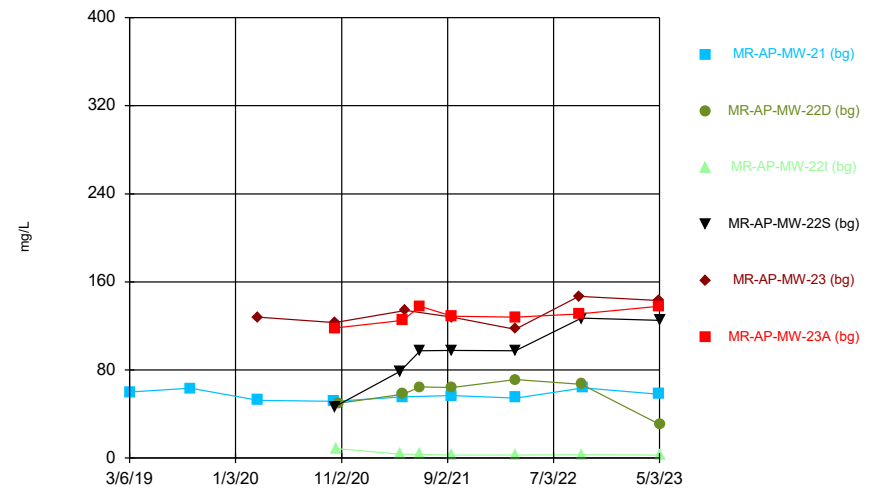
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Time Series



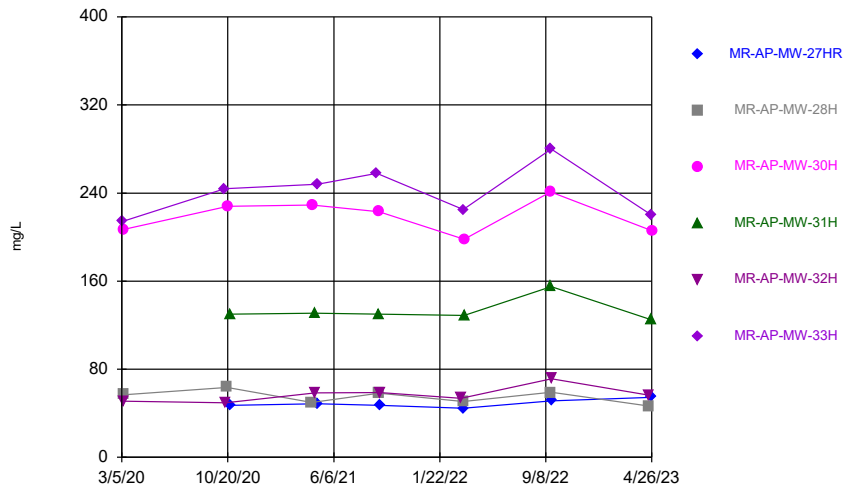
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Time Series



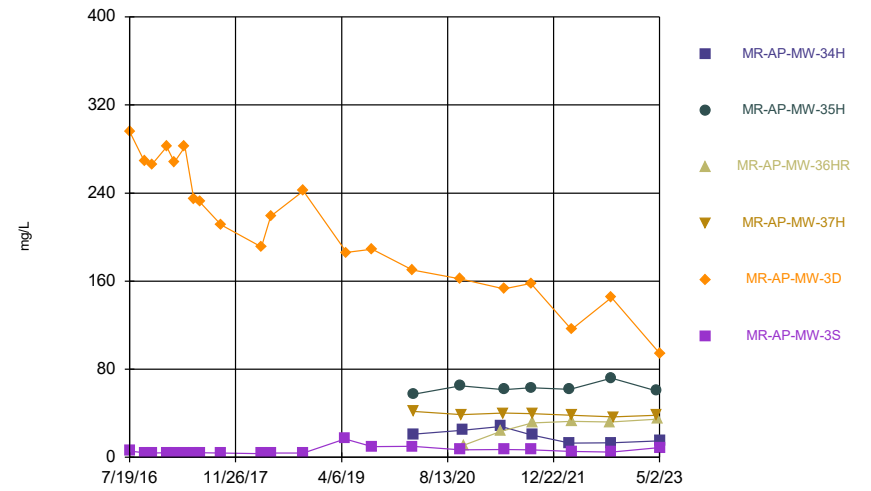
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Time Series



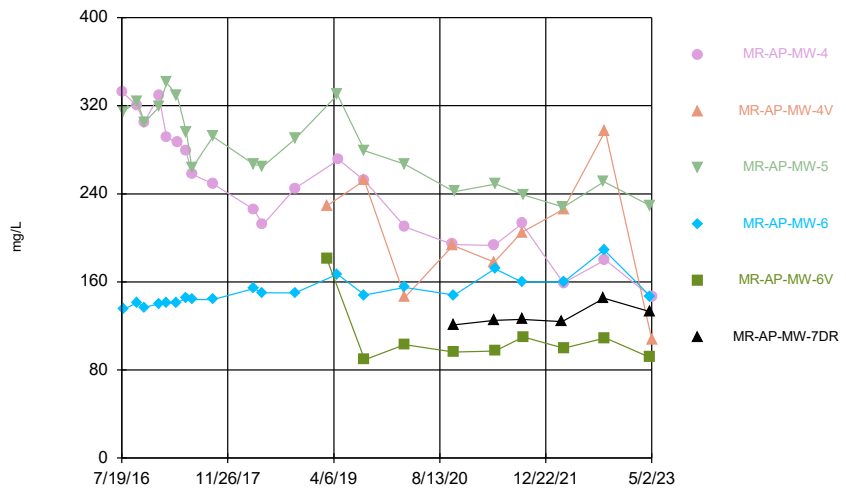
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Time Series



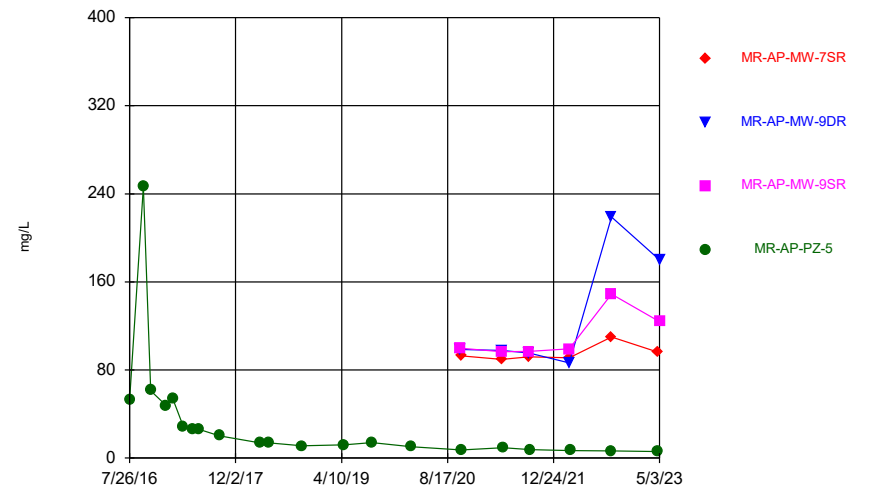
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Time Series



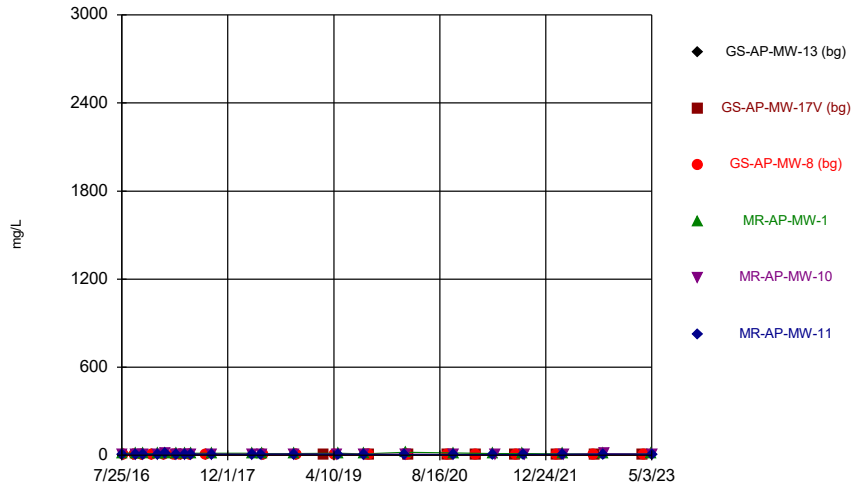
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Time Series



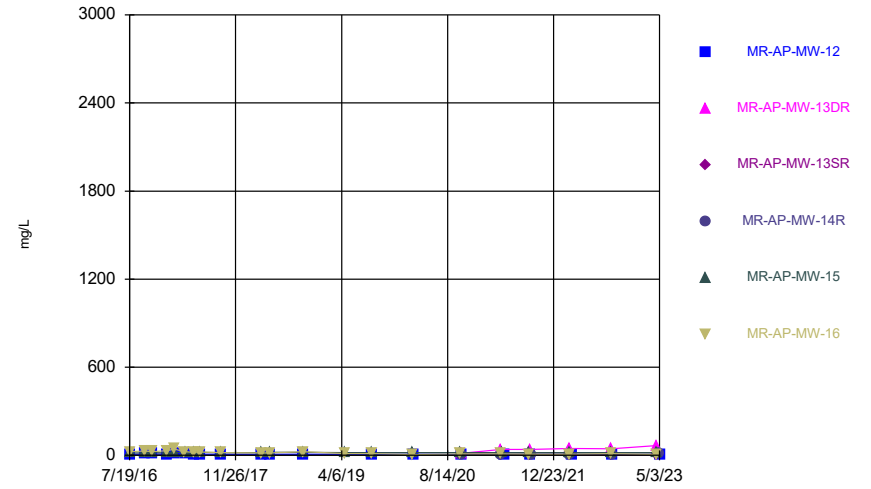
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Time Series



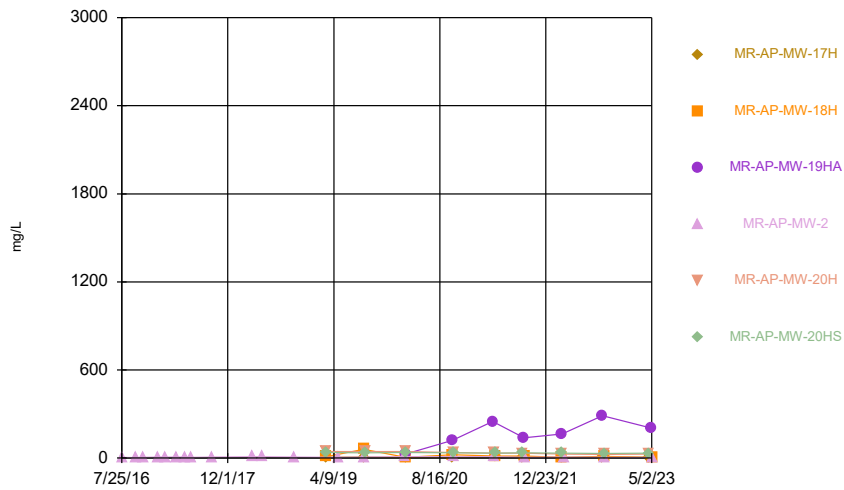
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Time Series



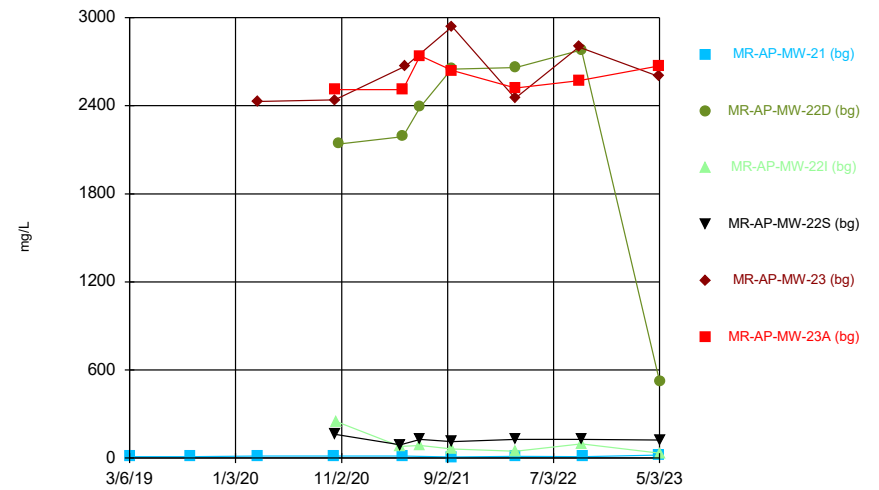
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Time Series



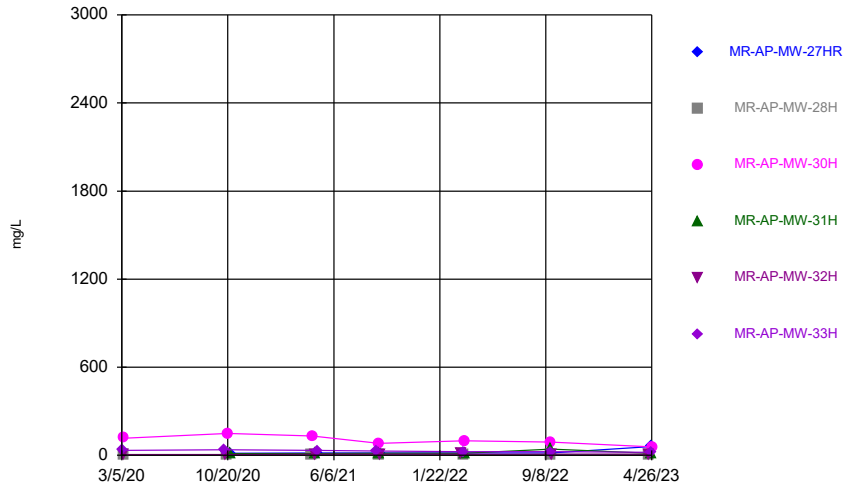
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Time Series



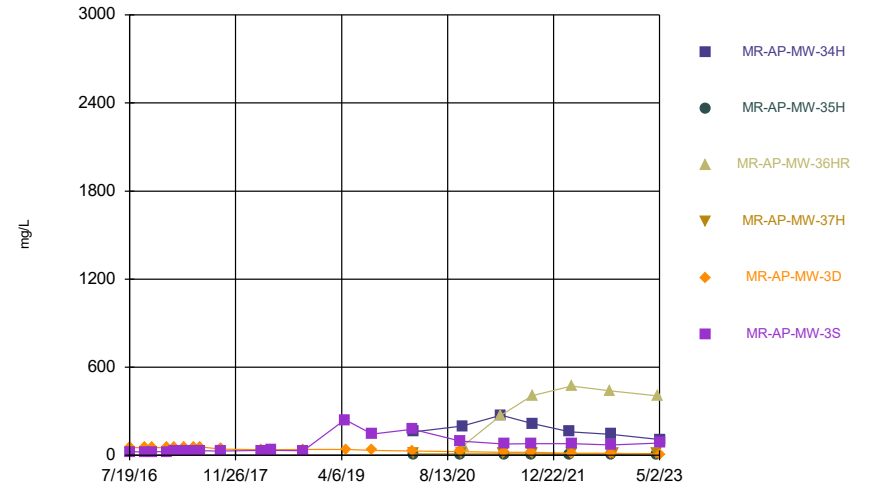
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Time Series



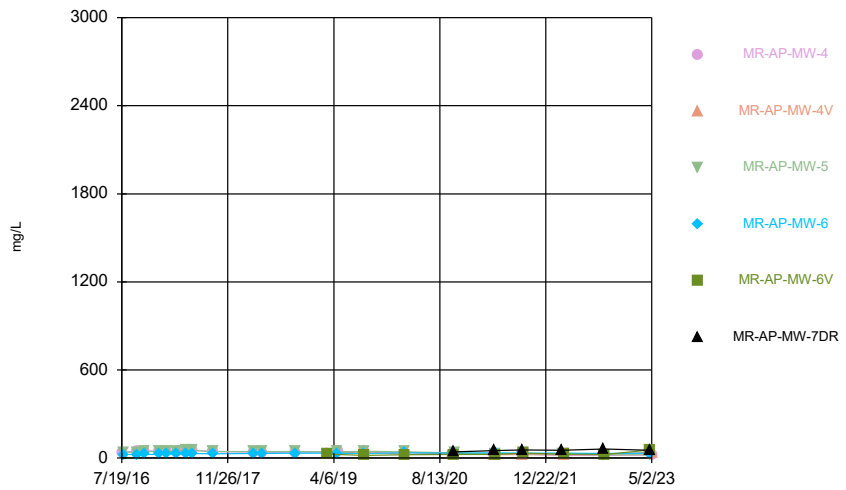
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Time Series



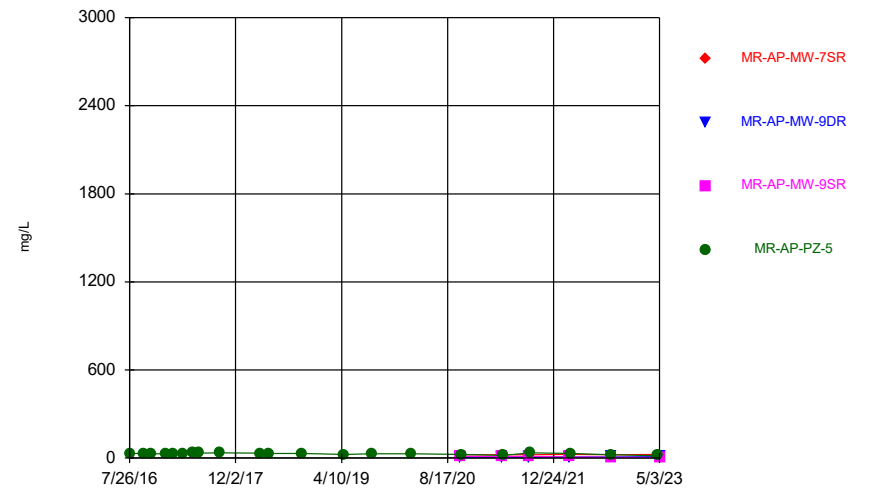
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Time Series



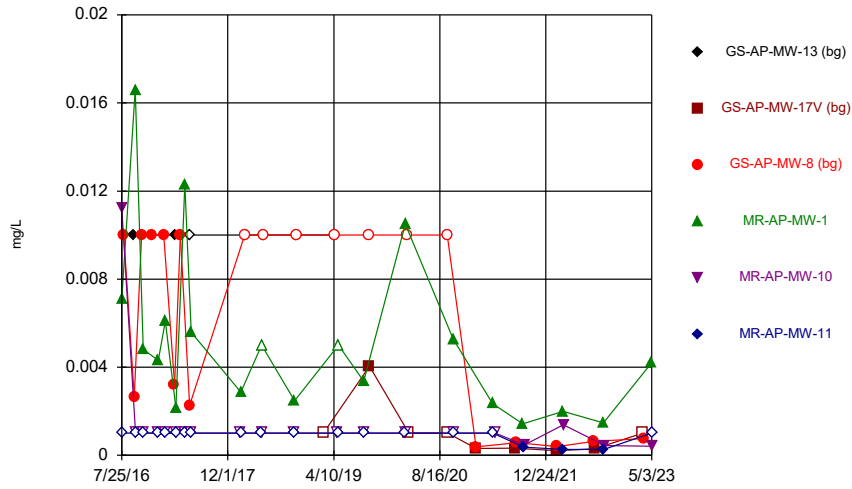
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Time Series



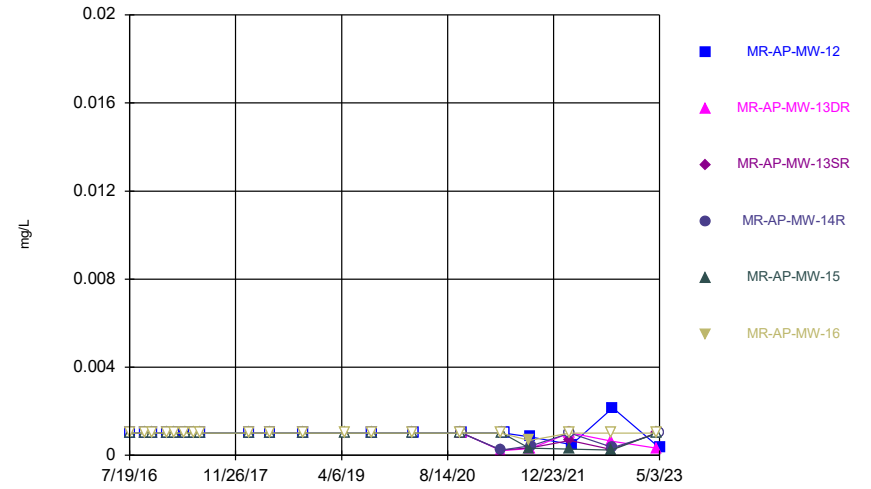
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Time Series



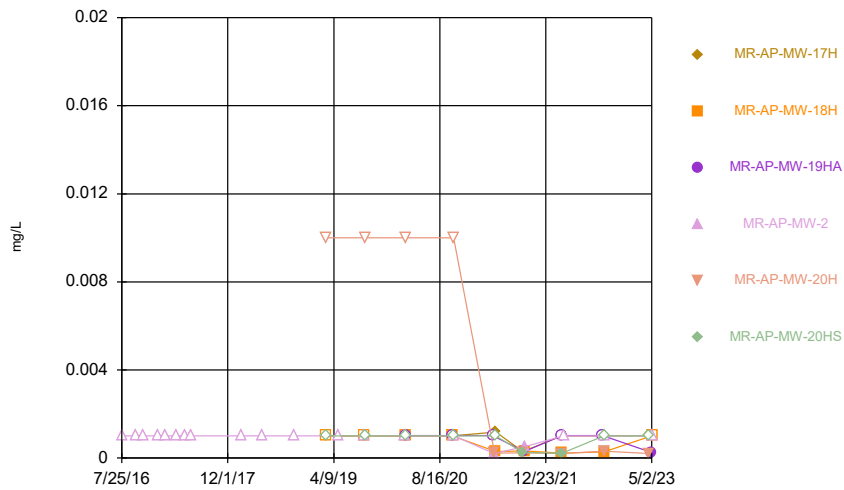
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Time Series



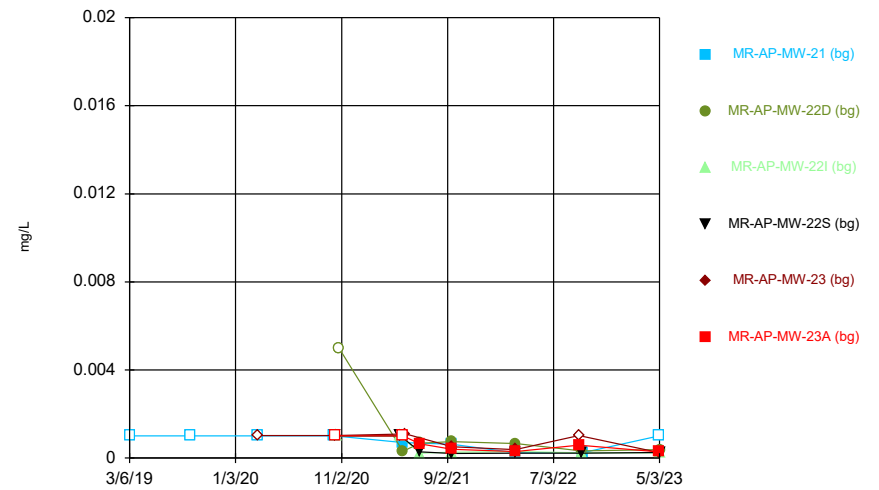
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



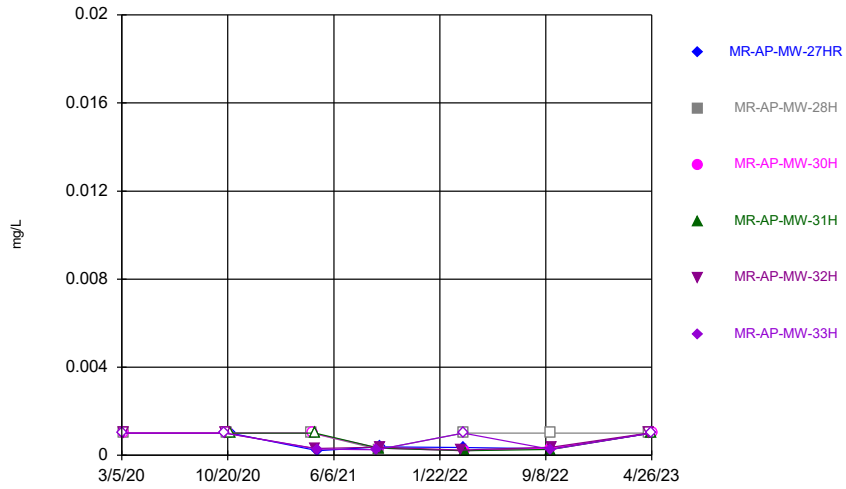
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Time Series



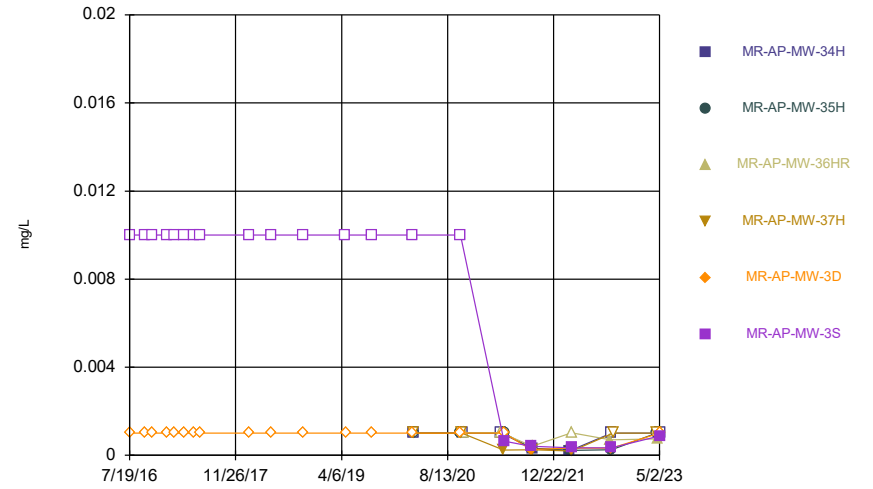
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Time Series



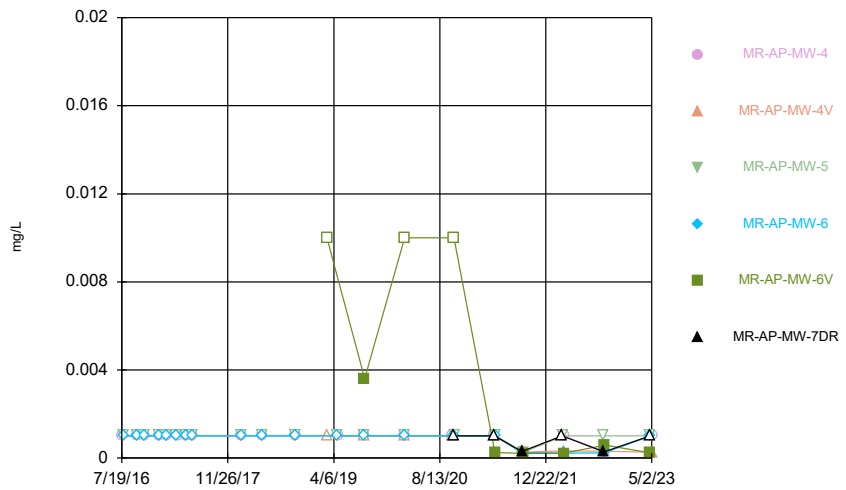
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Time Series



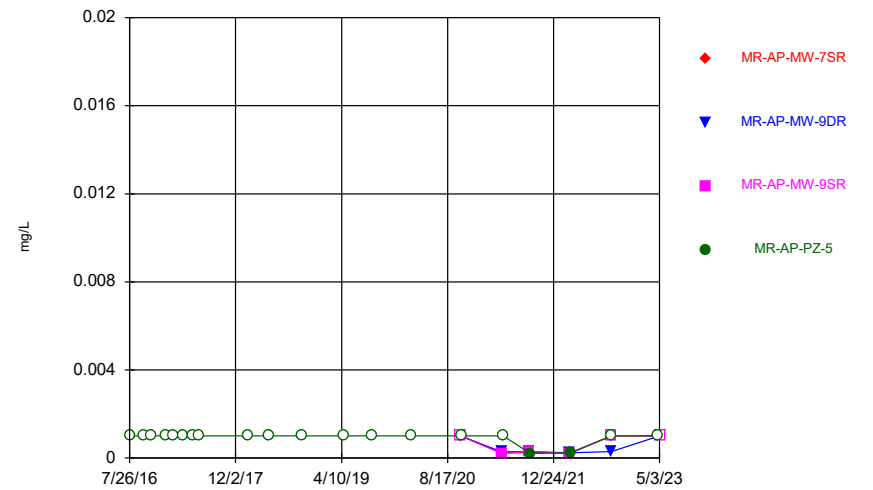
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Time Series



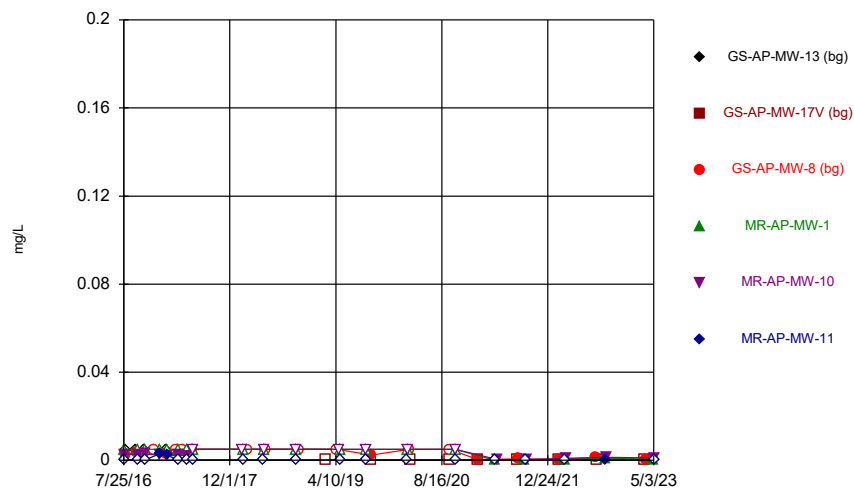
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Time Series



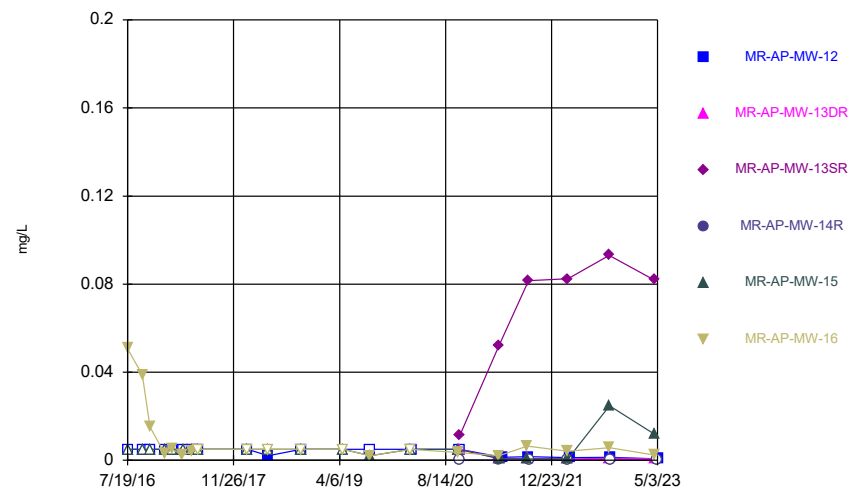
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



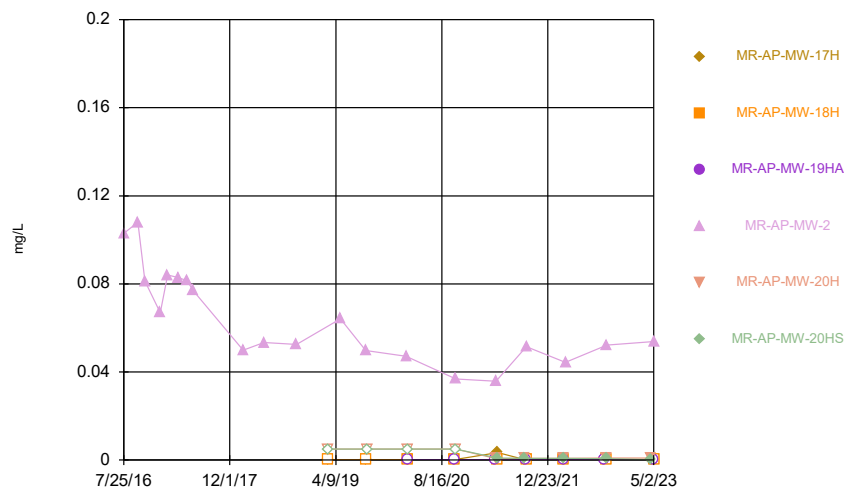
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Time Series



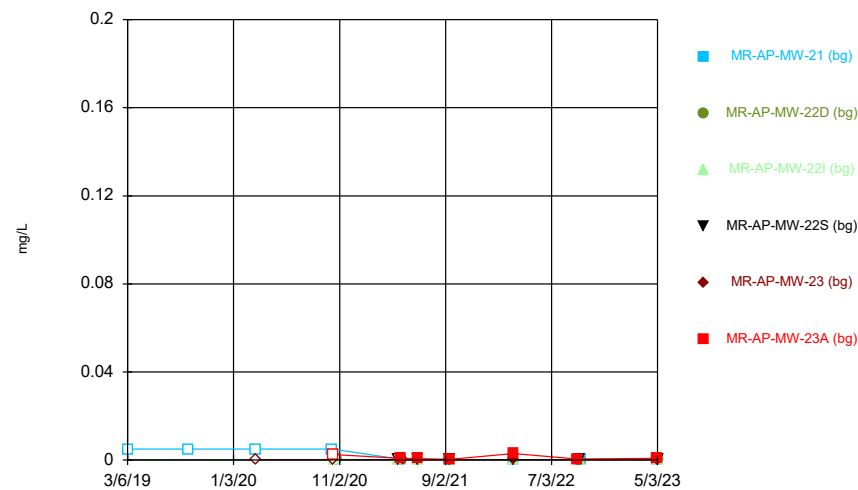
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Time Series



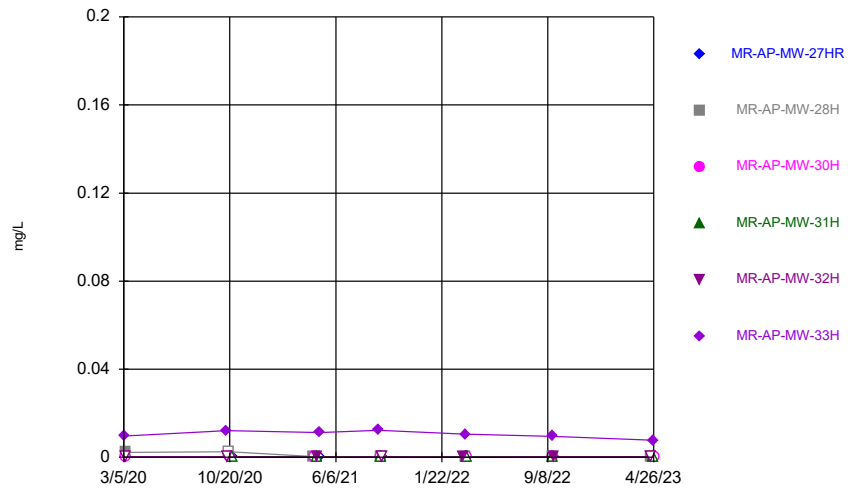
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Time Series



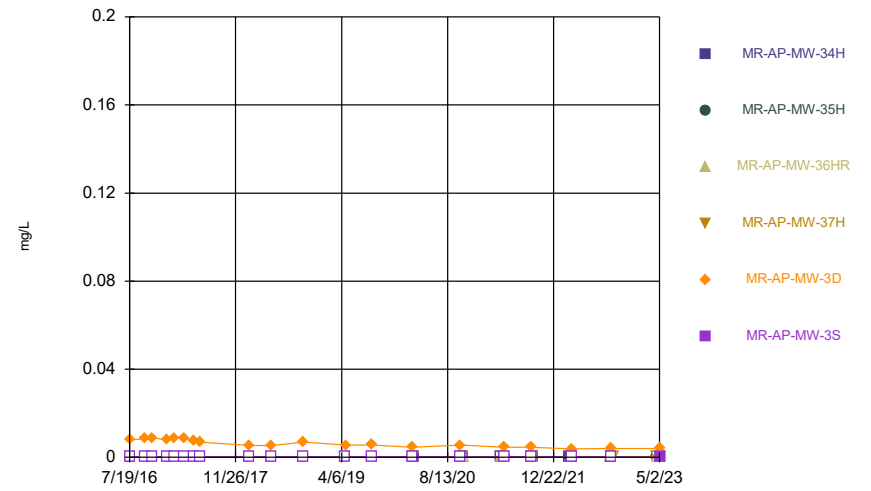
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Time Series



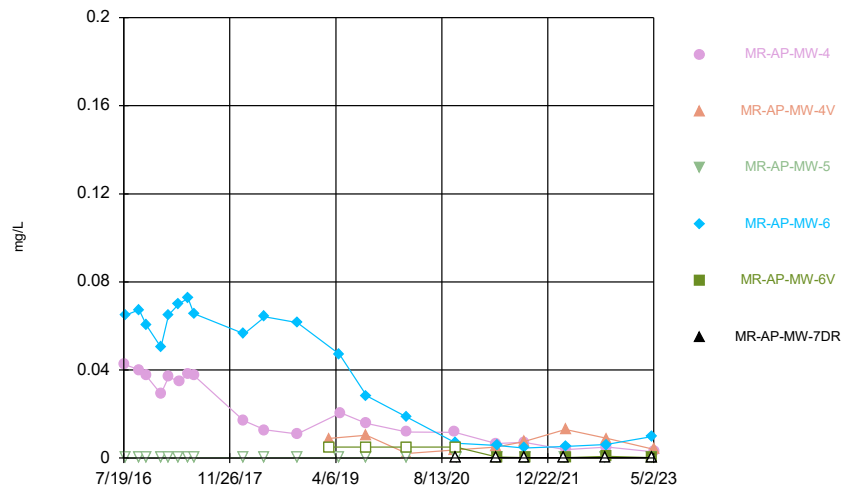
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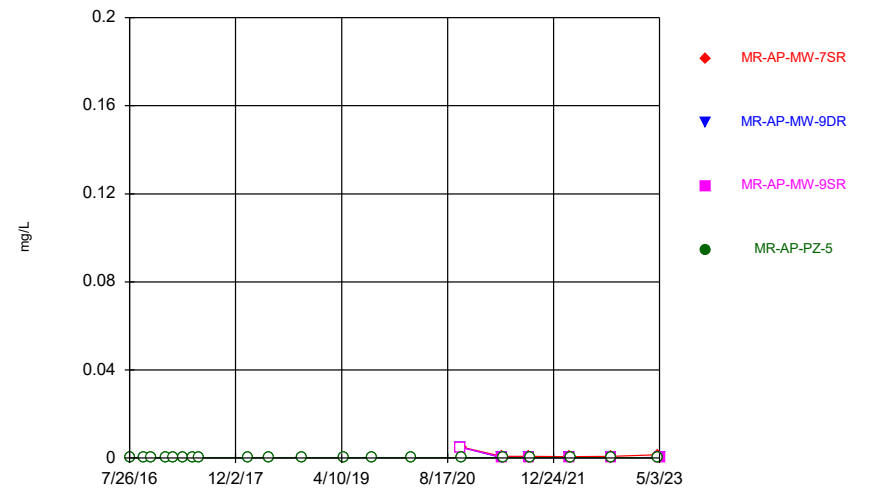
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Time Series



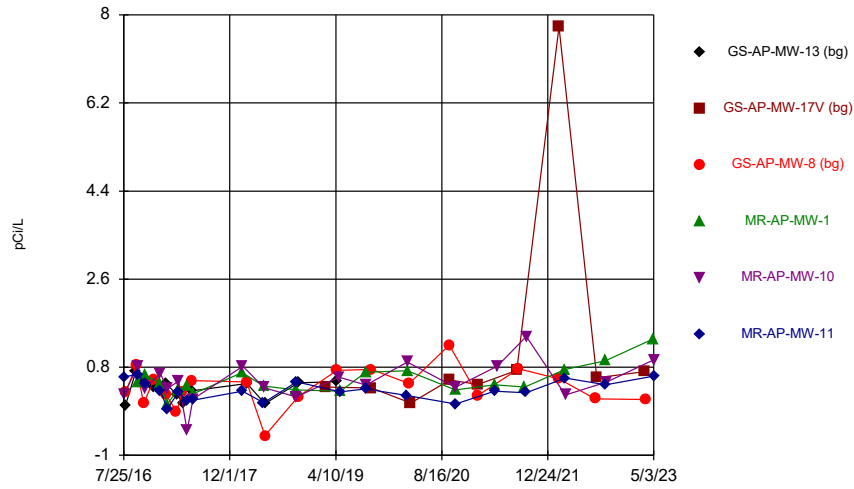
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Time Series



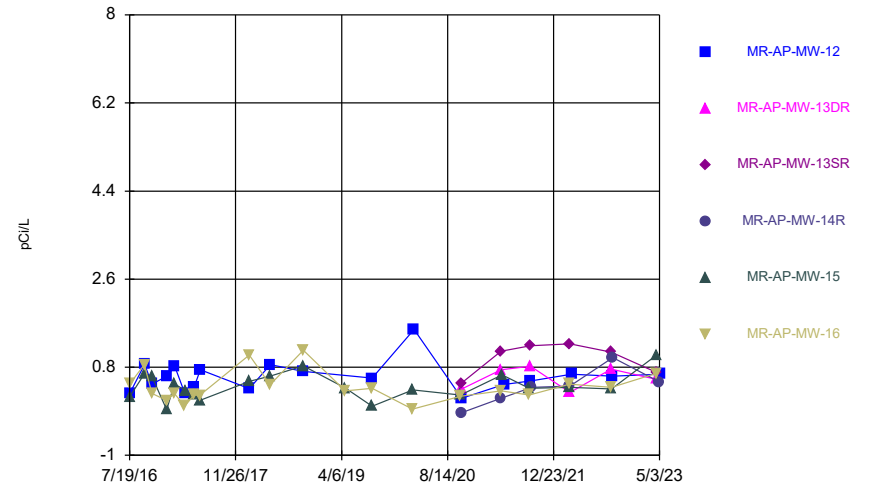
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Time Series



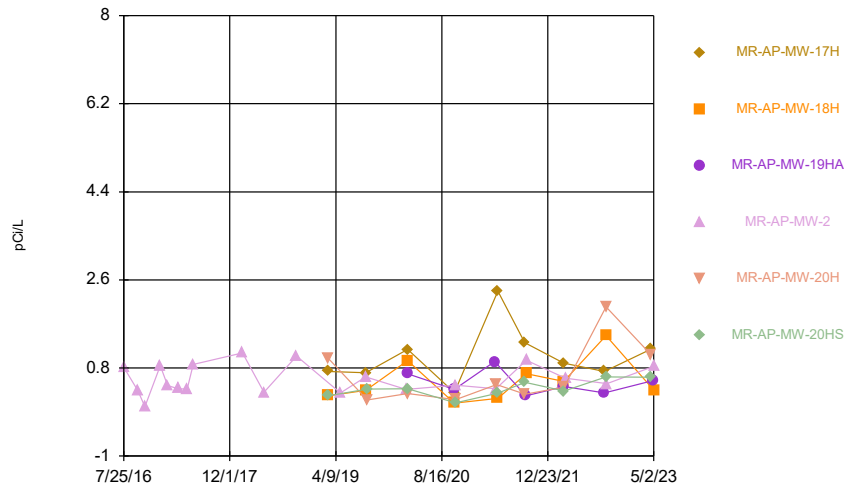
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



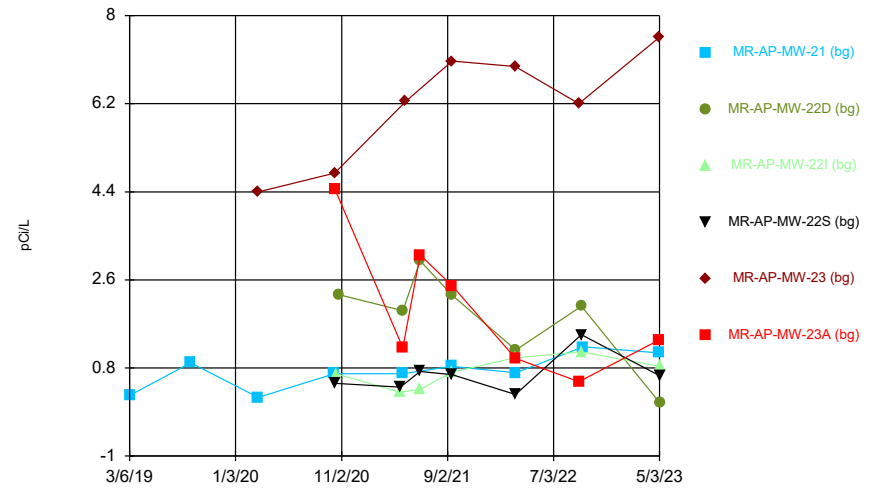
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



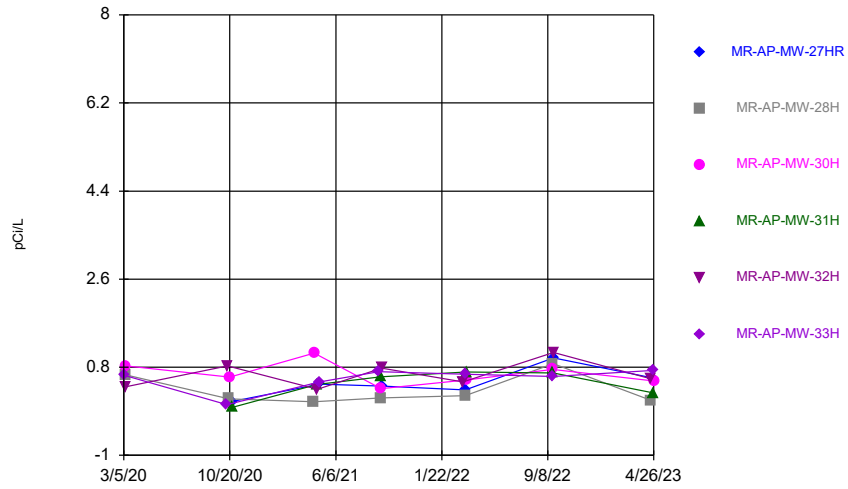
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Time Series



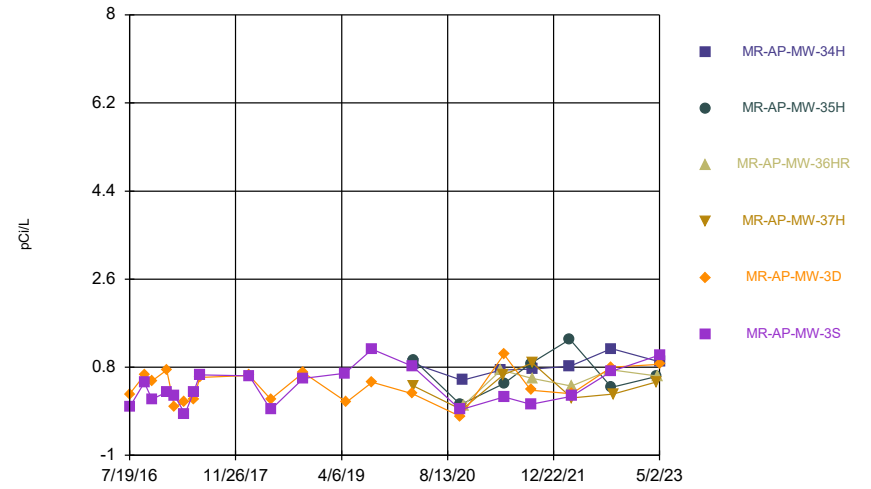
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Time Series



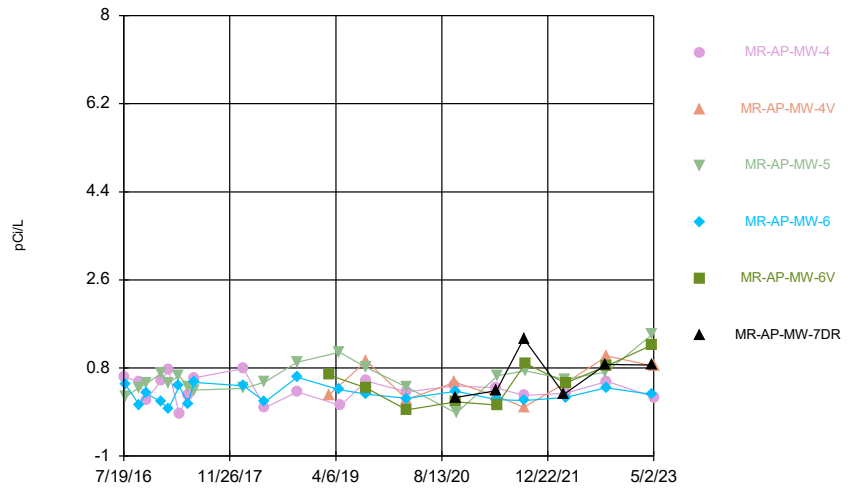
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Time Series



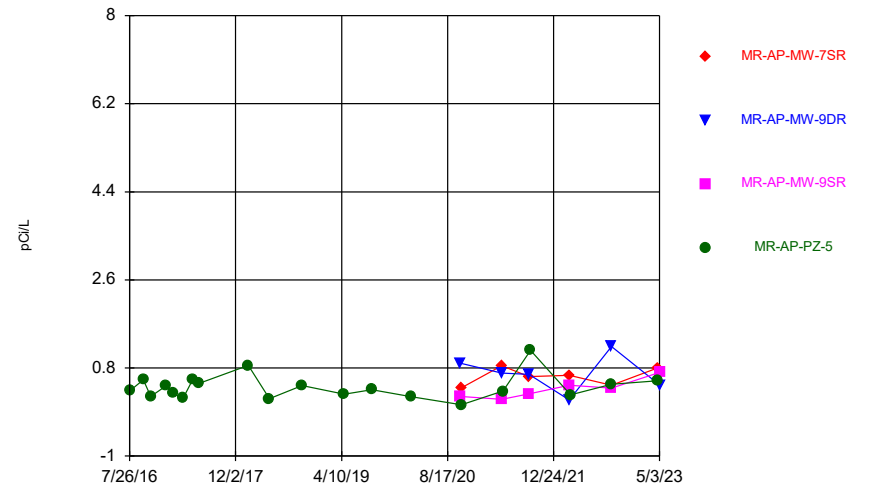
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



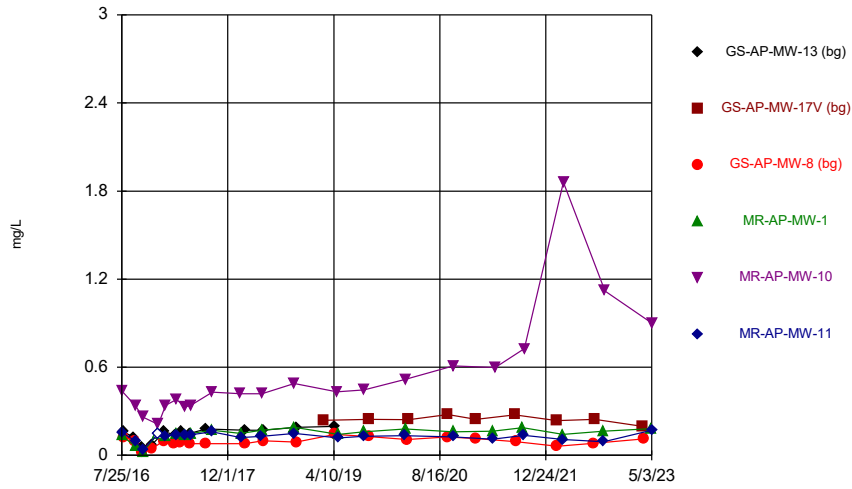
Constituent: Combined Radium 226 + 228 Analysis Run 6/27/2023 8:41 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series

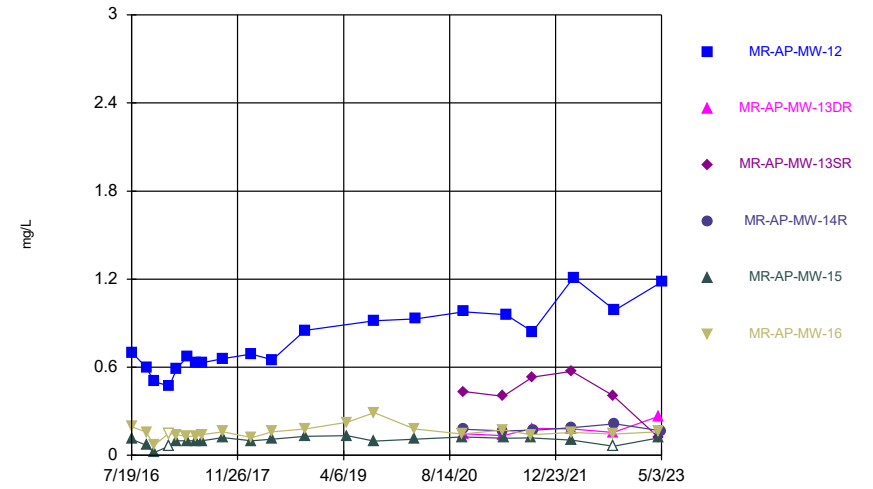


Constituent: Combined Radium 226 + 228 Analysis Run 6/27/2023 8:41 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

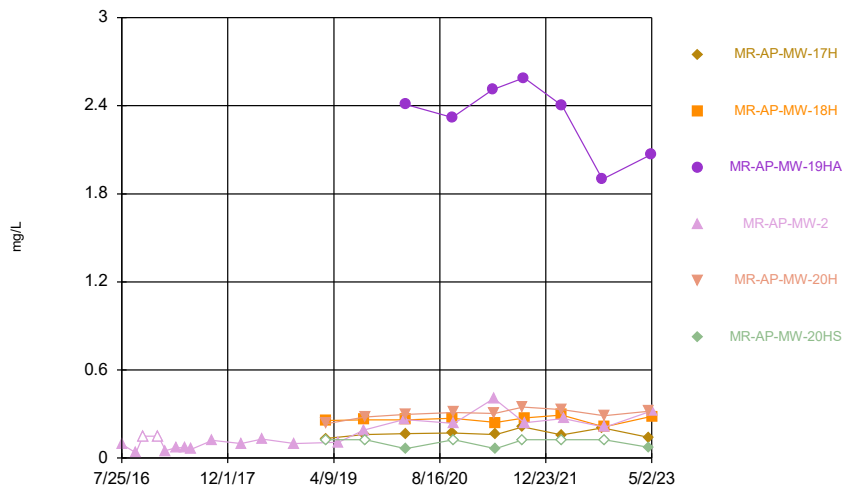
Time Series



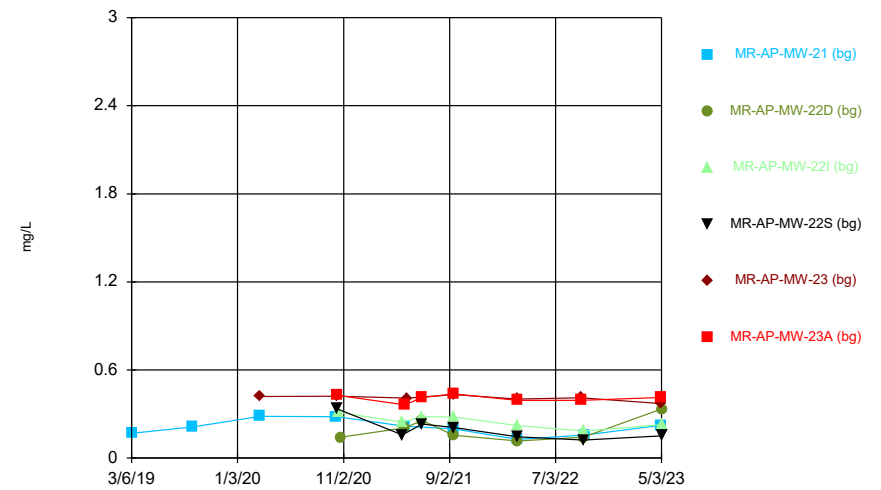
Time Series



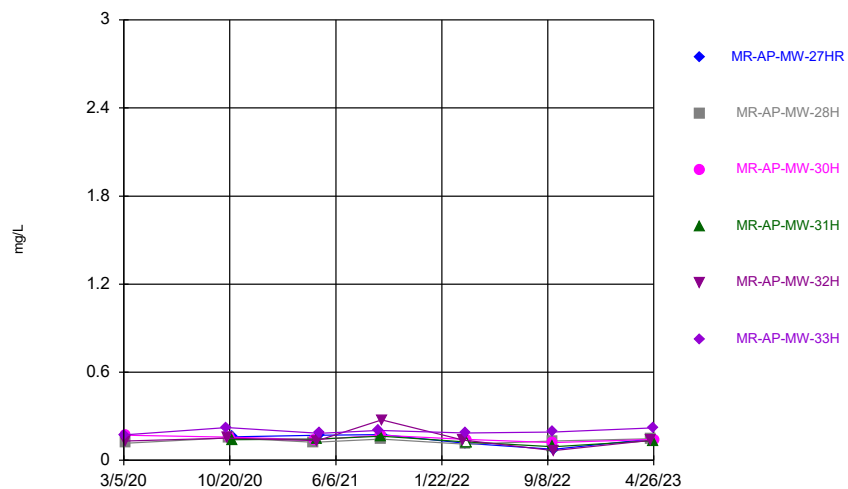
Time Series



Time Series

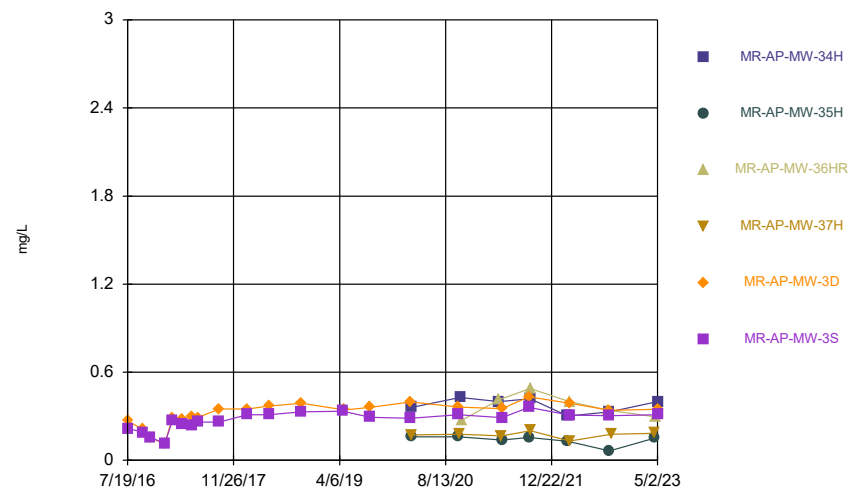


Time Series



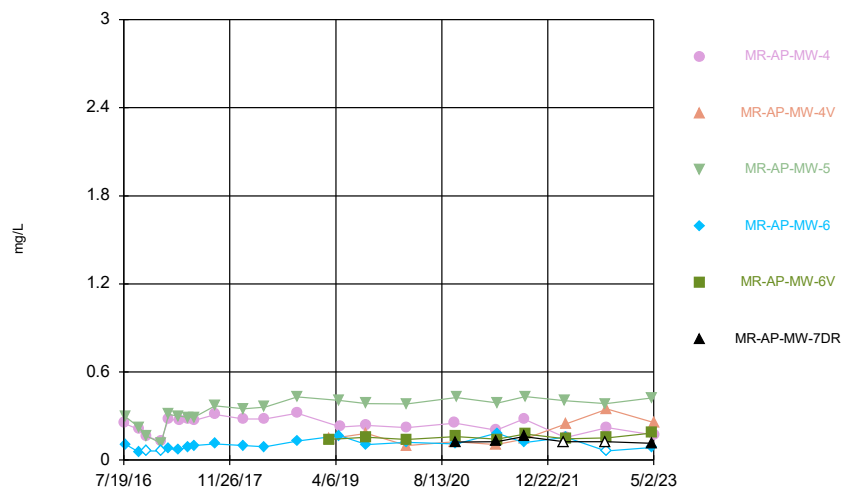
Constituent: Fluoride, total Analysis Run 6/27/2023 8:41 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



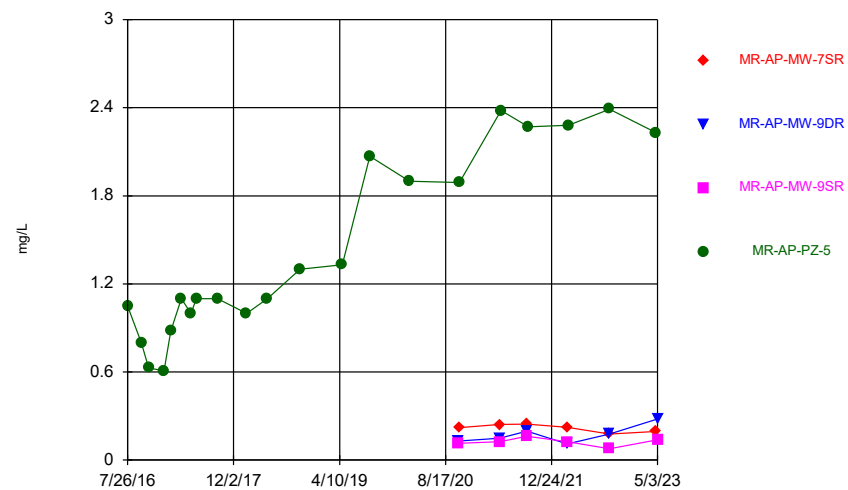
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



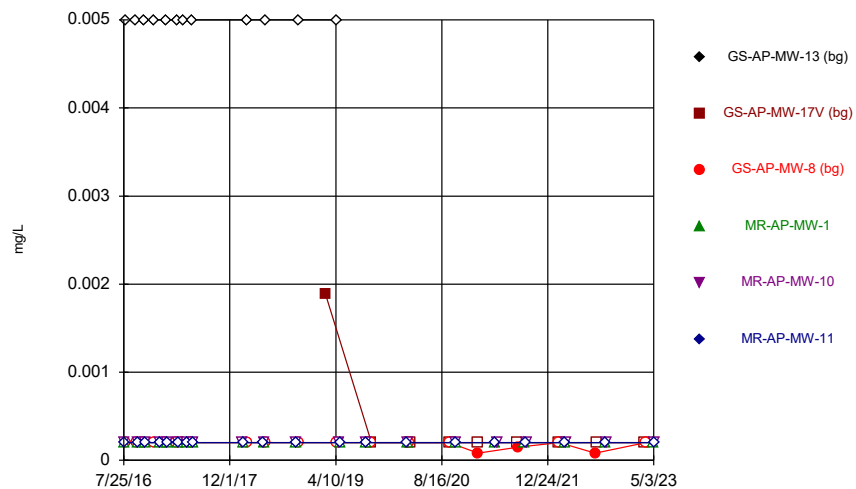
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



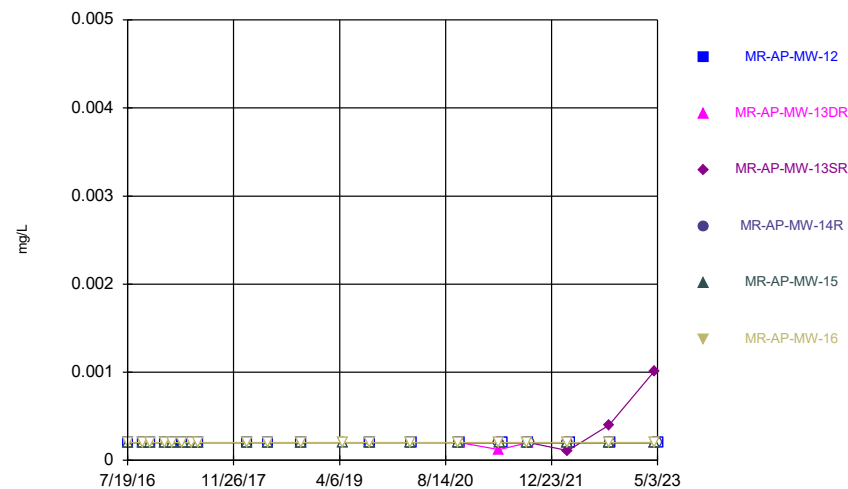
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



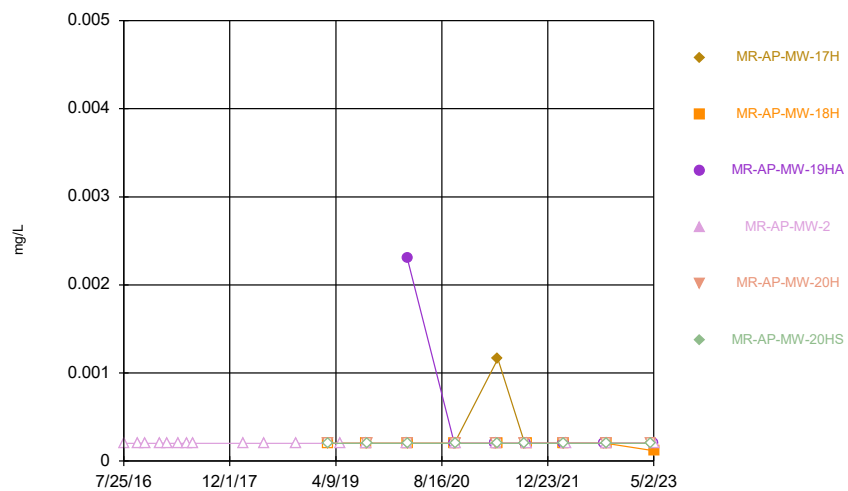
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



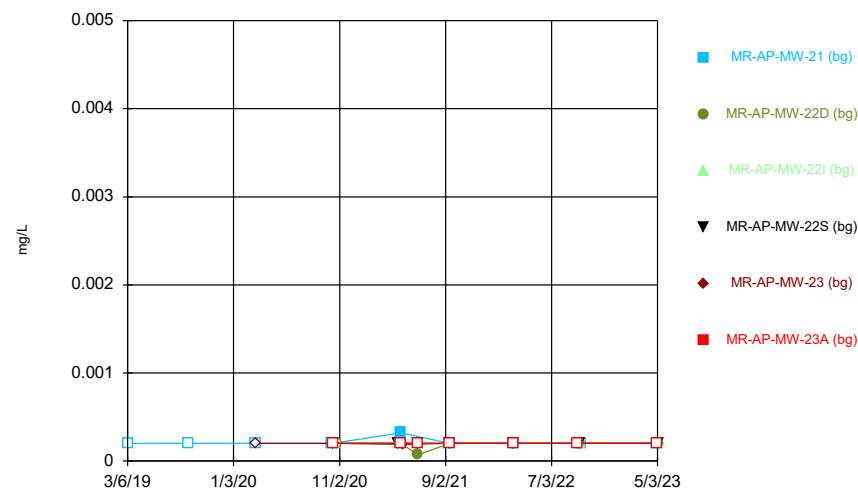
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



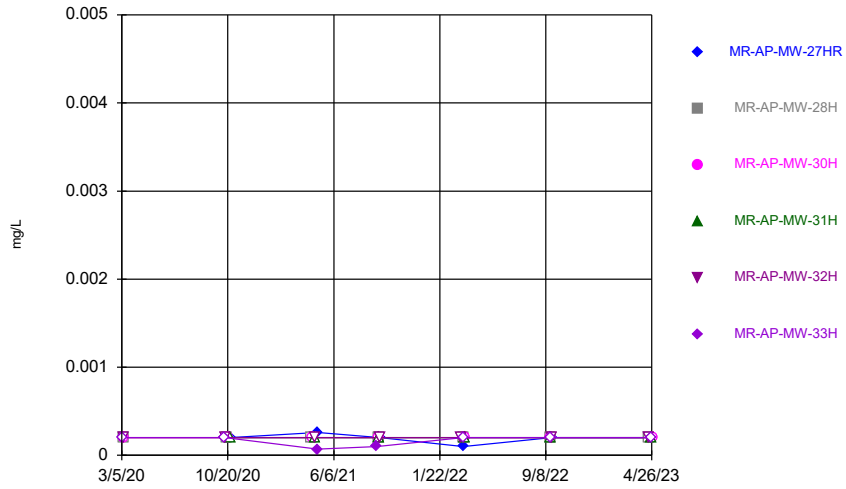
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



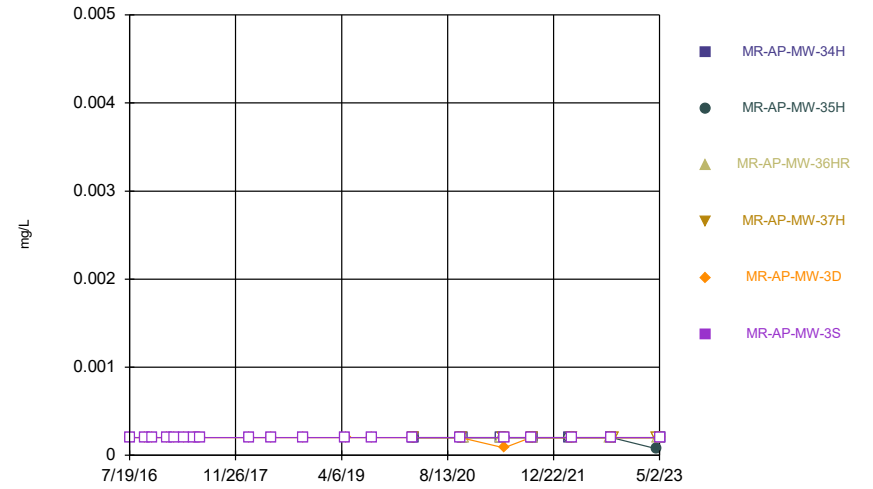
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



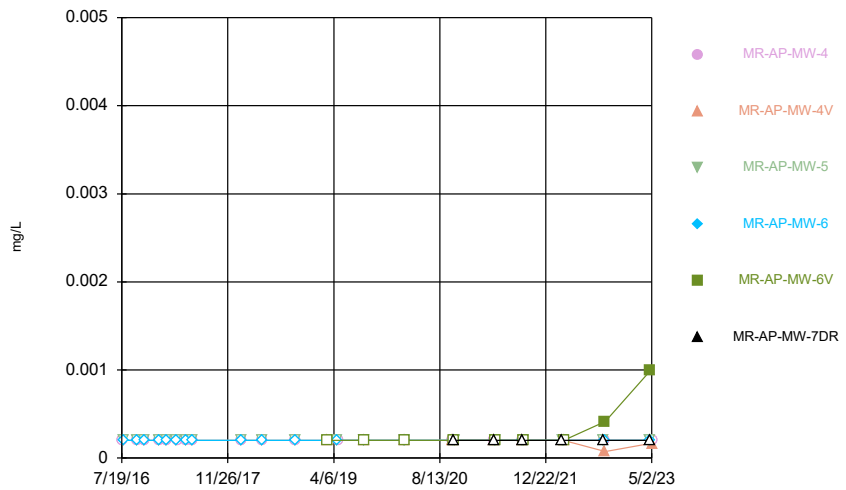
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



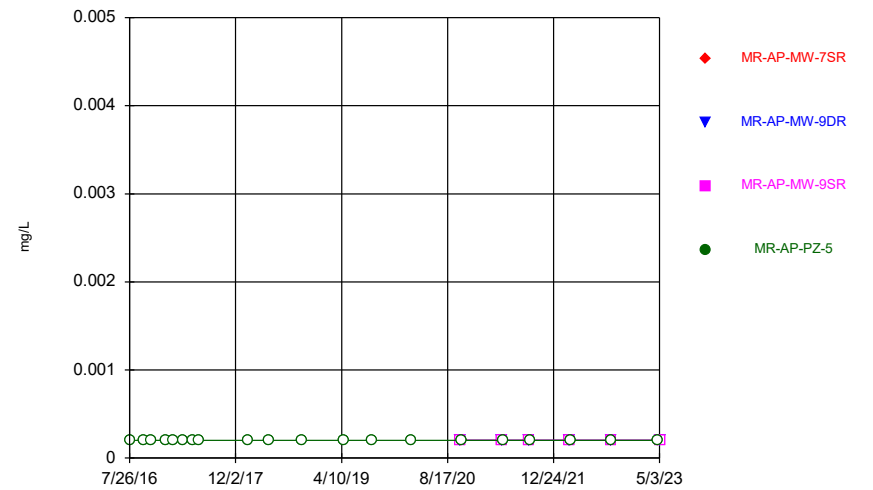
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Time Series



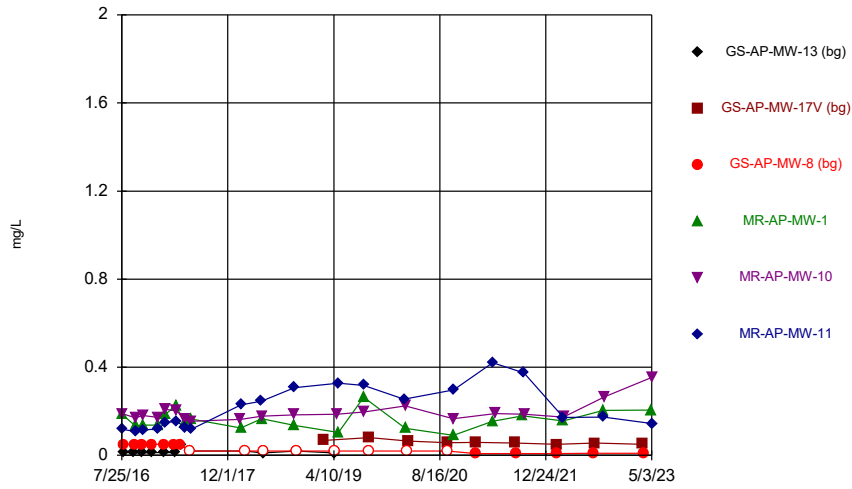
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



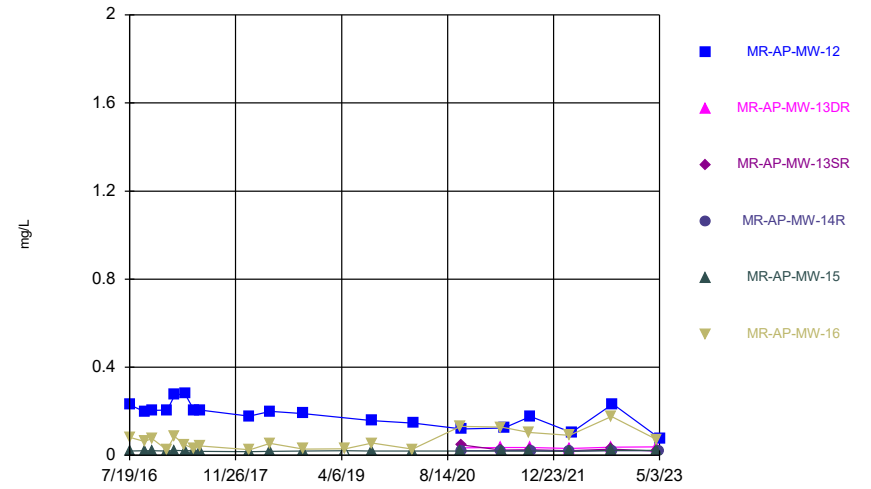
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



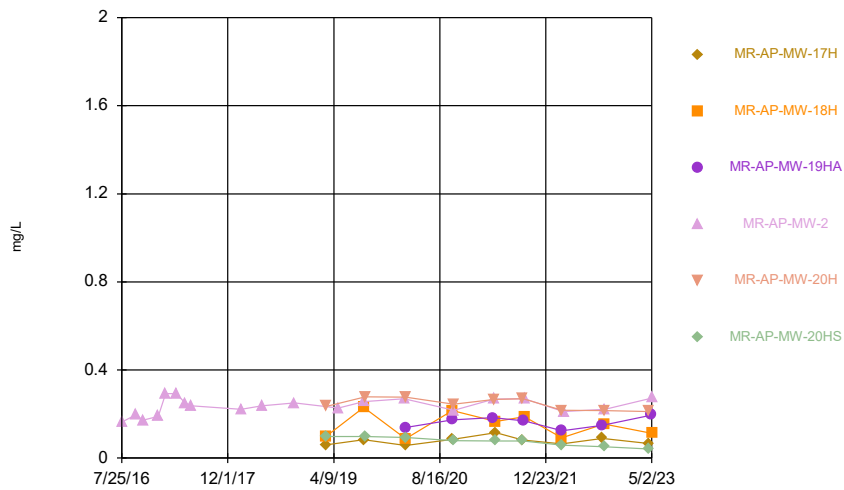
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



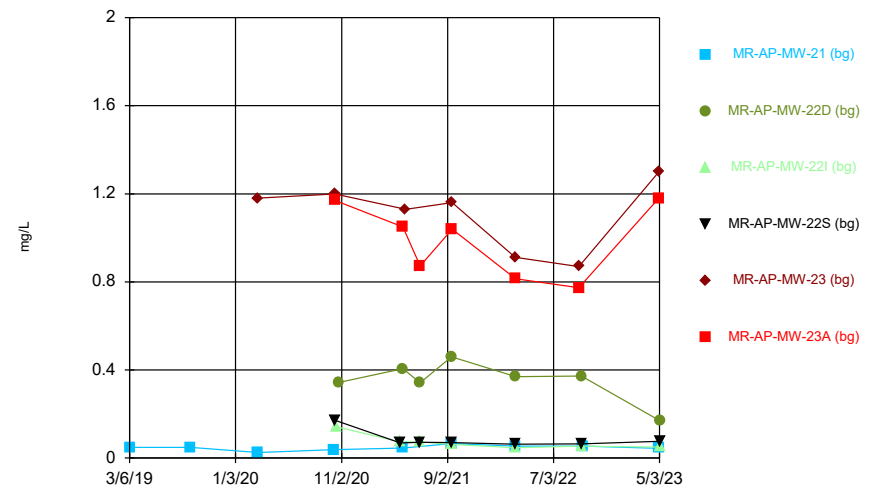
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



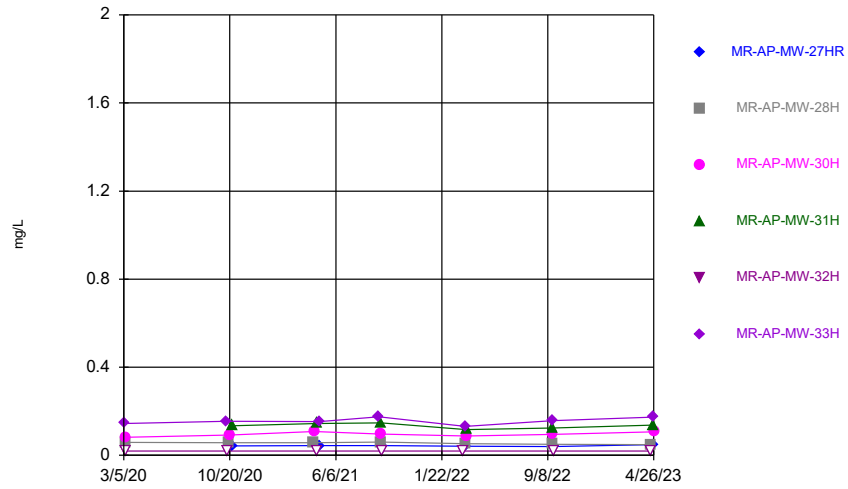
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



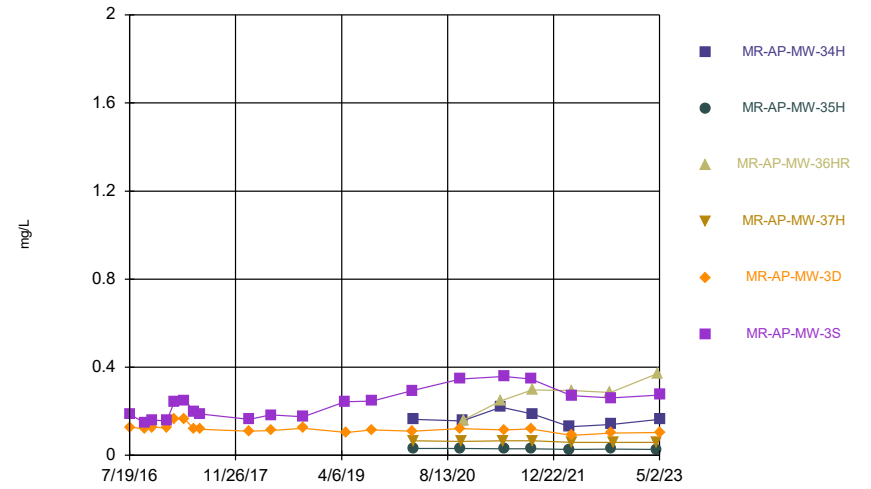
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Time Series



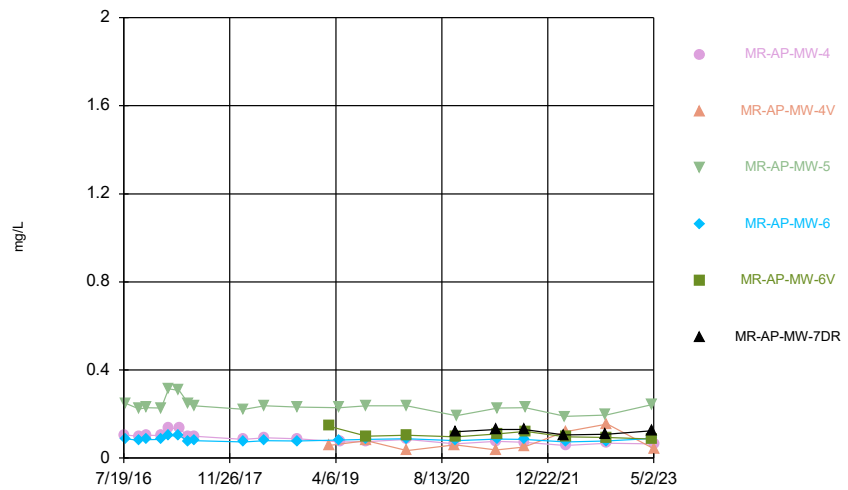
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



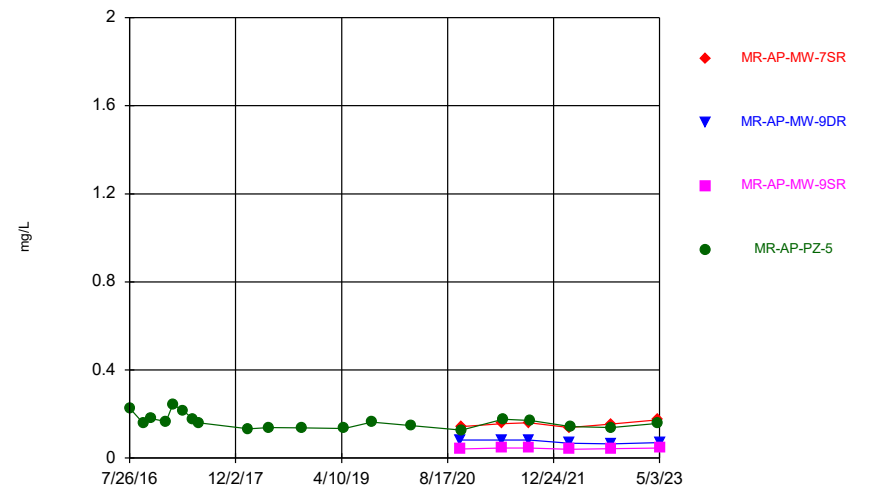
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



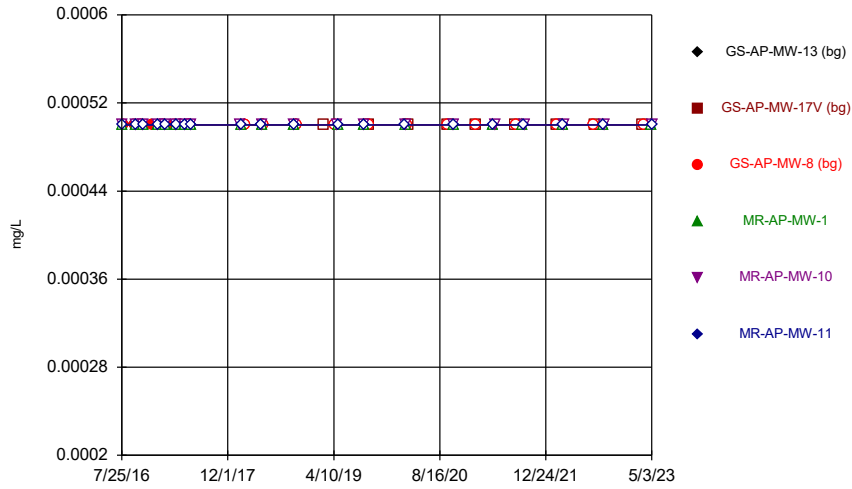
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Time Series



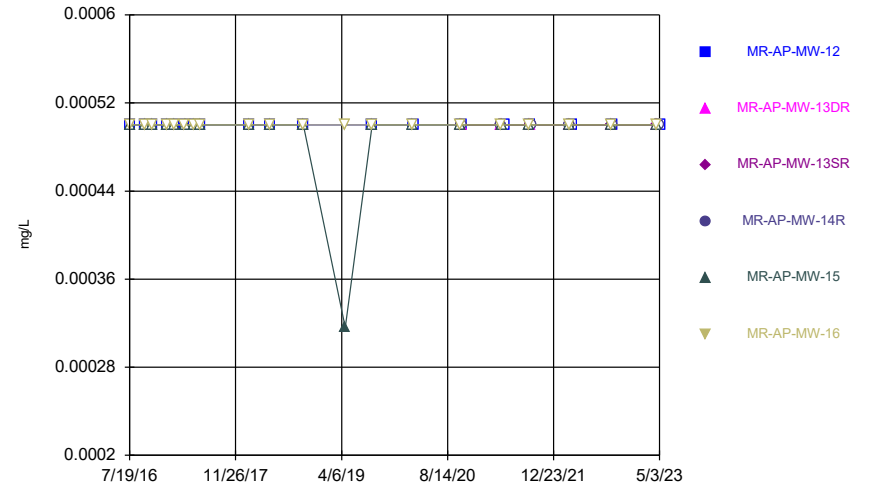
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



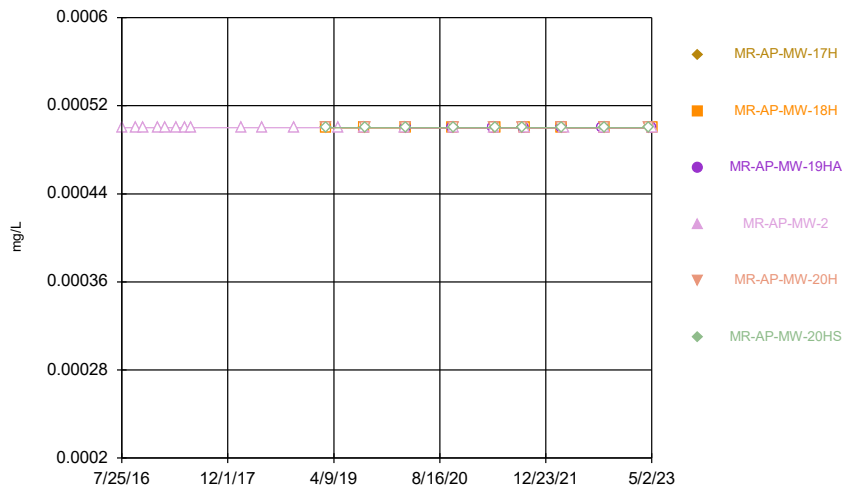
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



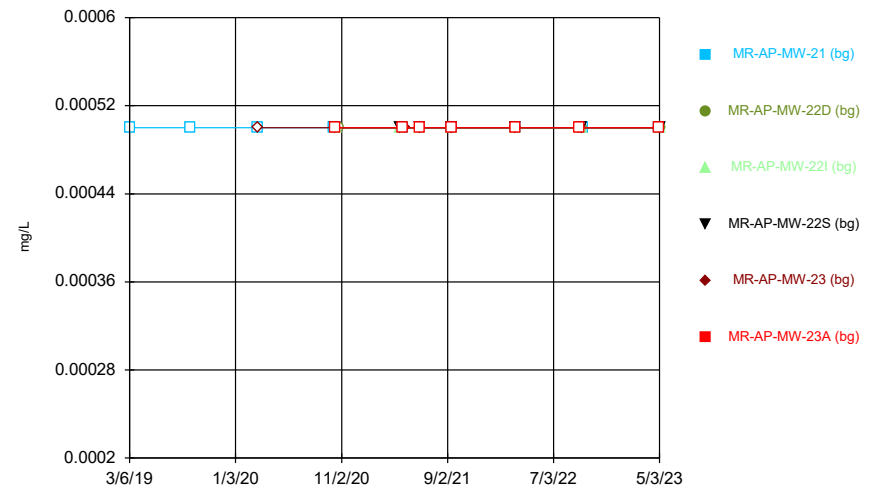
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Time Series



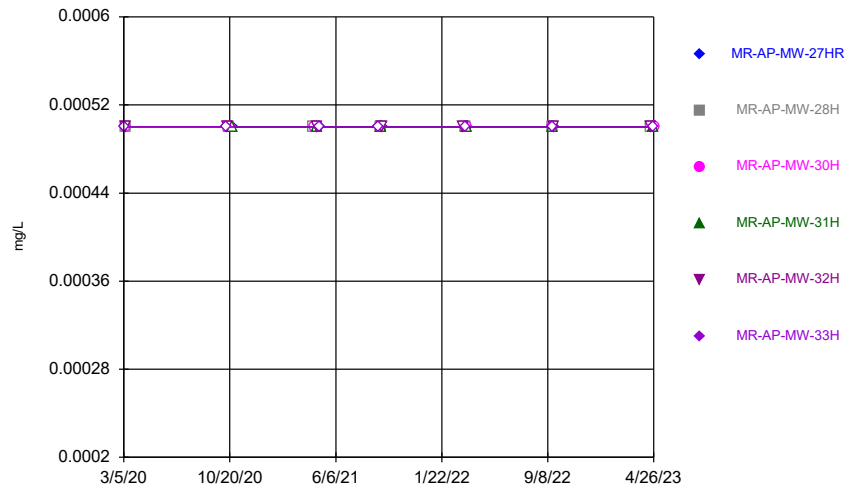
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Time Series



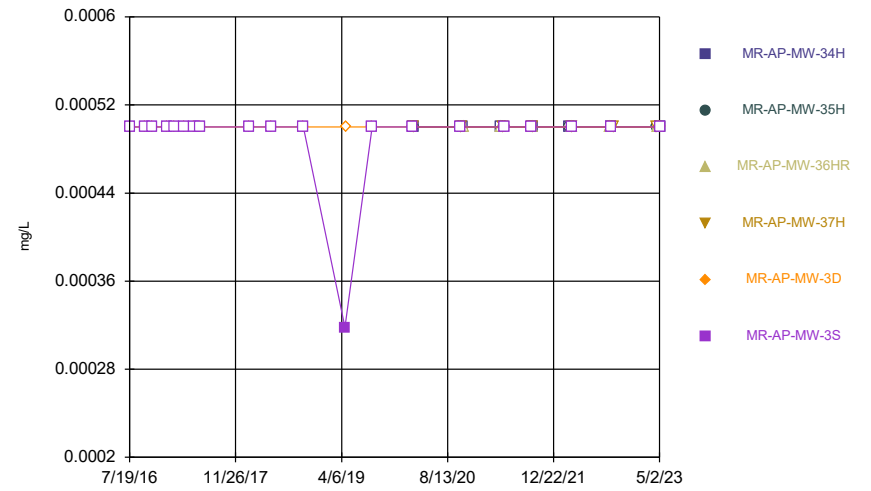
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Time Series



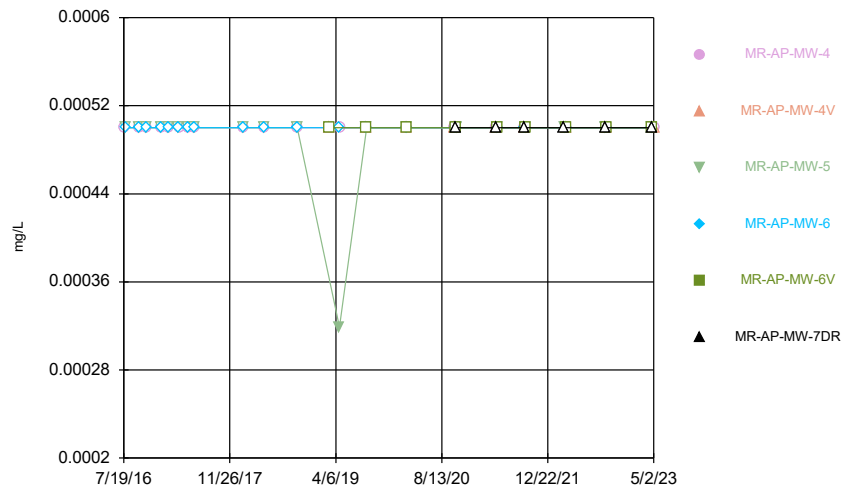
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Time Series



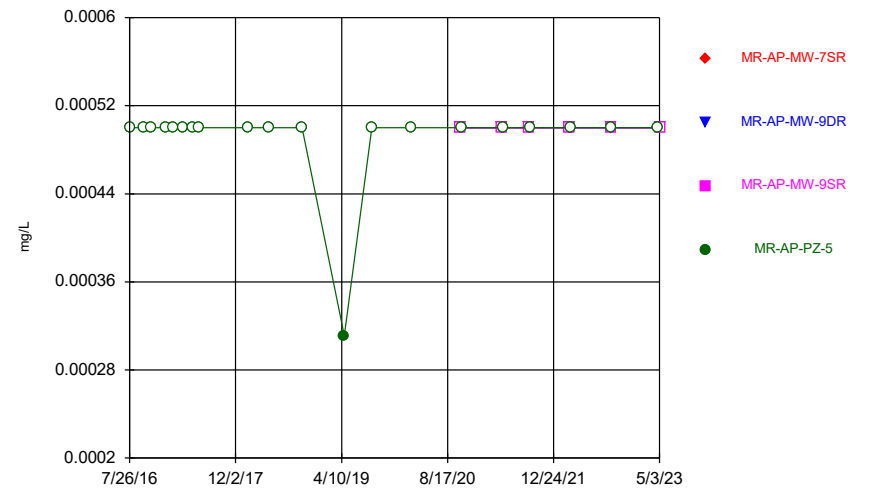
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Time Series



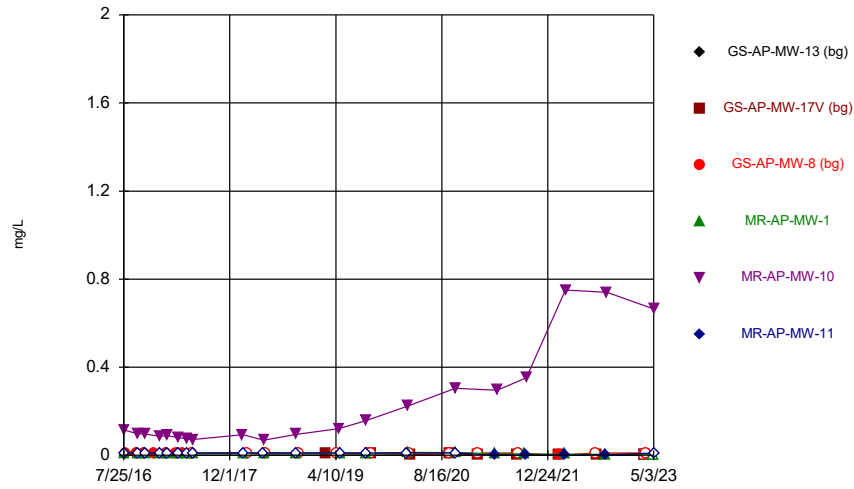
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



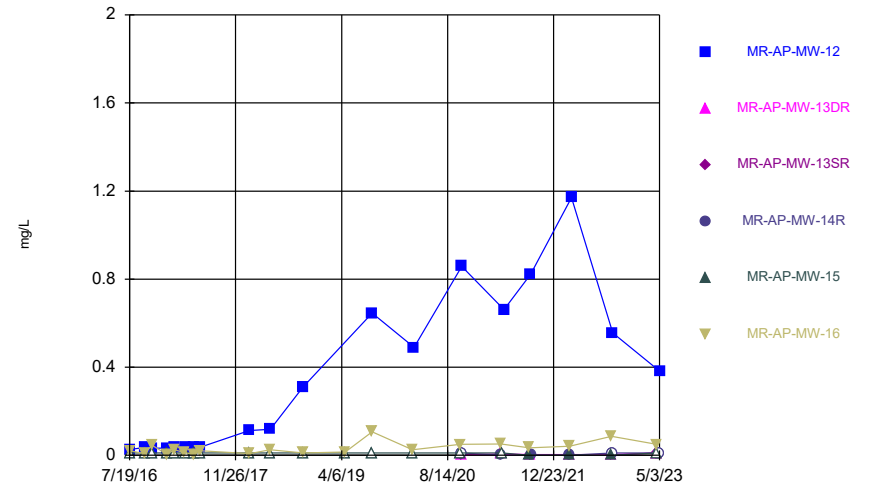
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Time Series



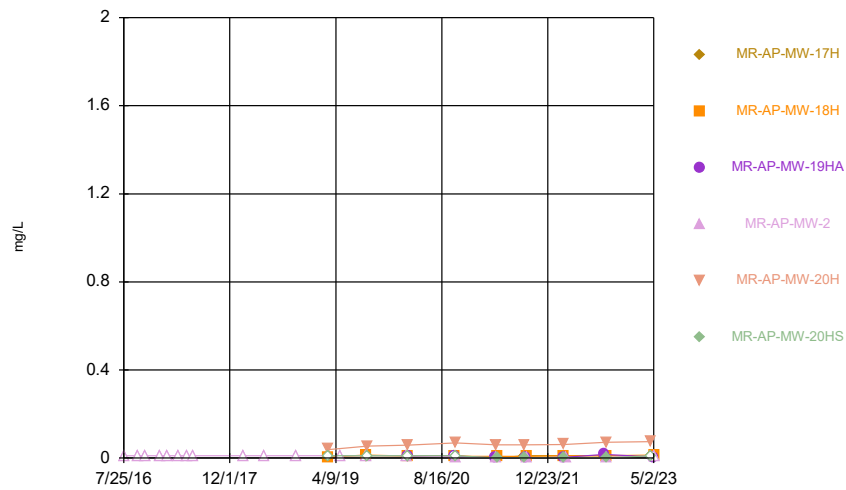
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Time Series



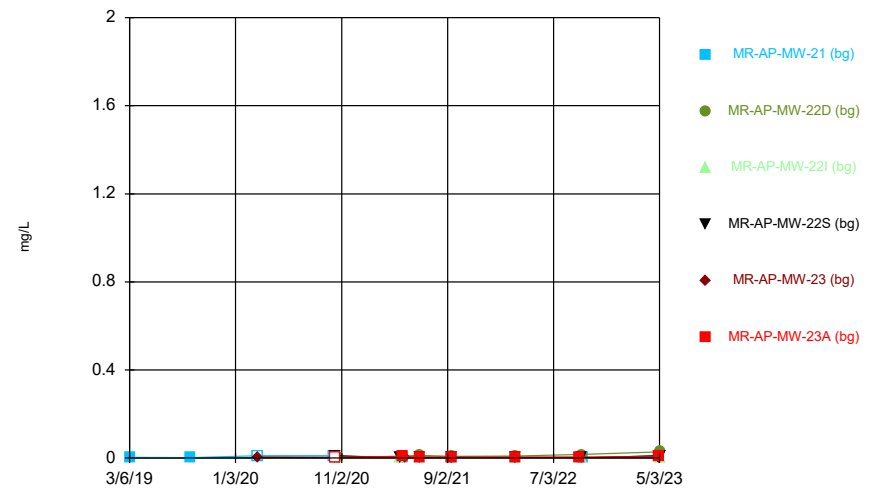
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Time Series



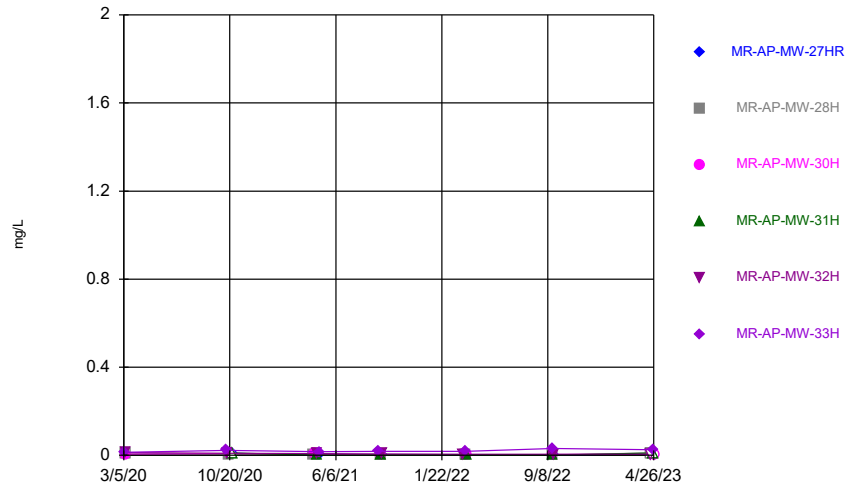
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Time Series



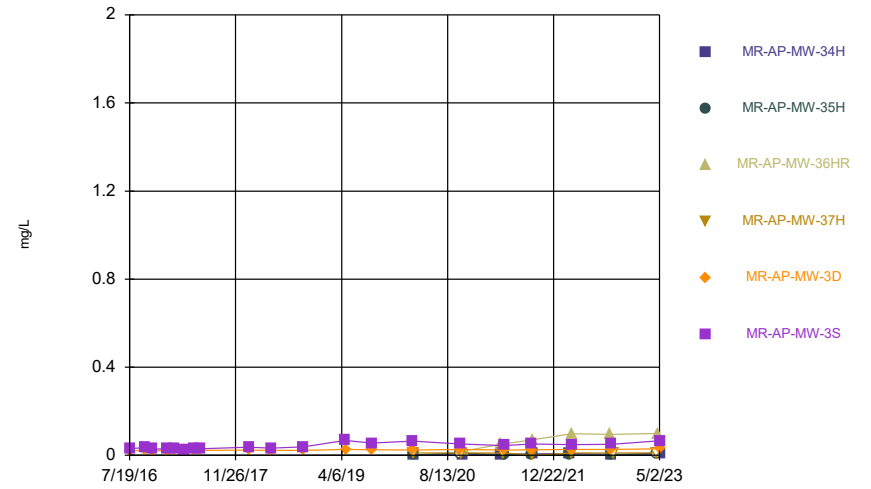
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Time Series



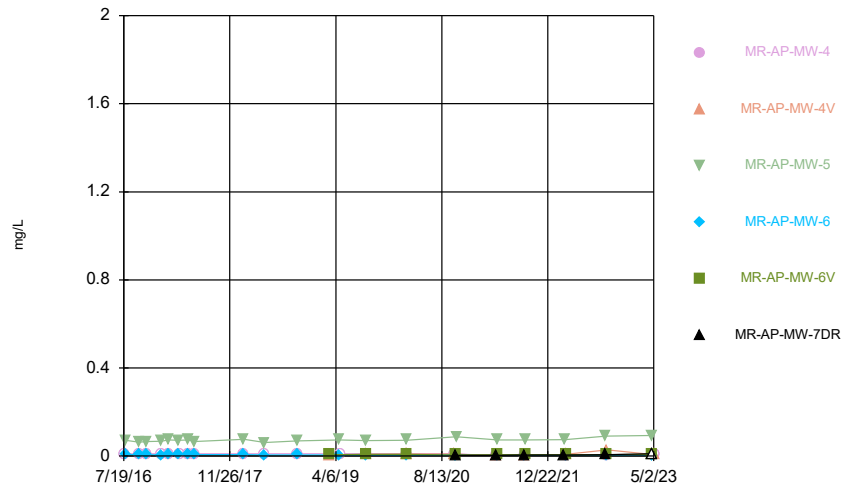
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Time Series



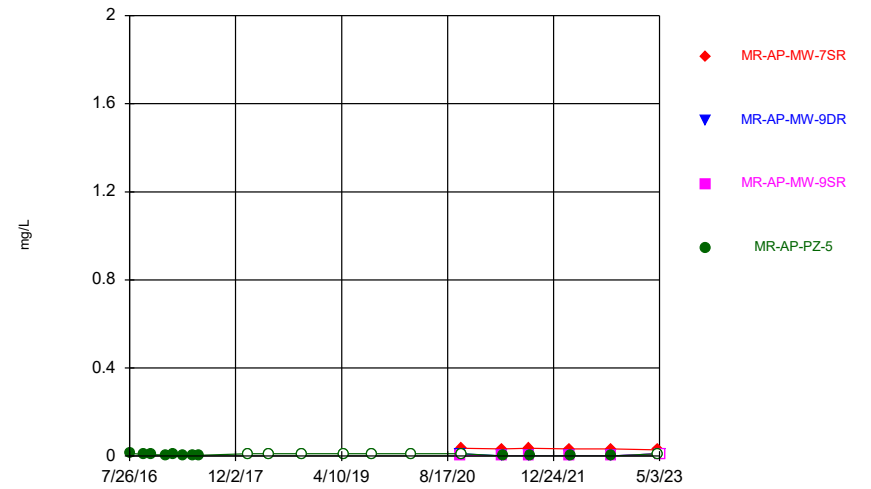
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



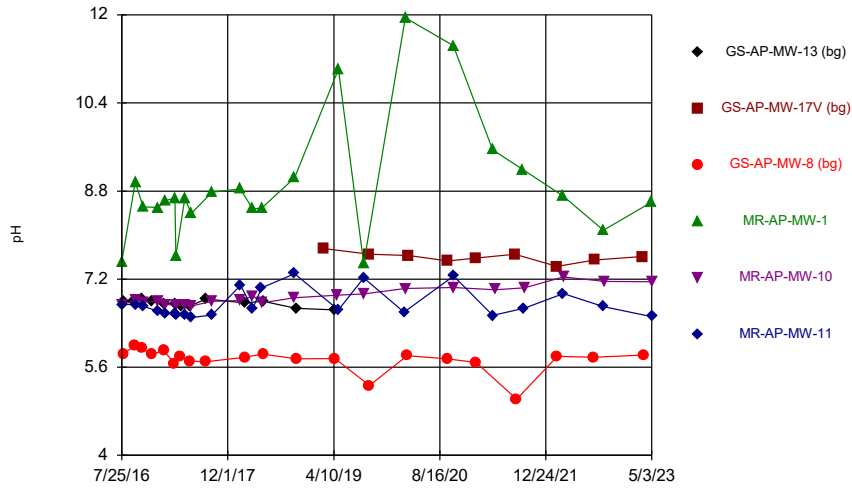
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



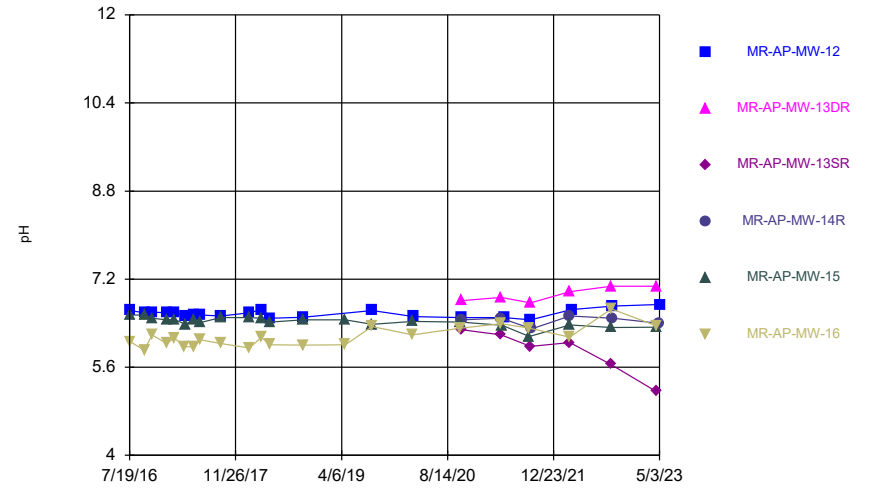
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Time Series



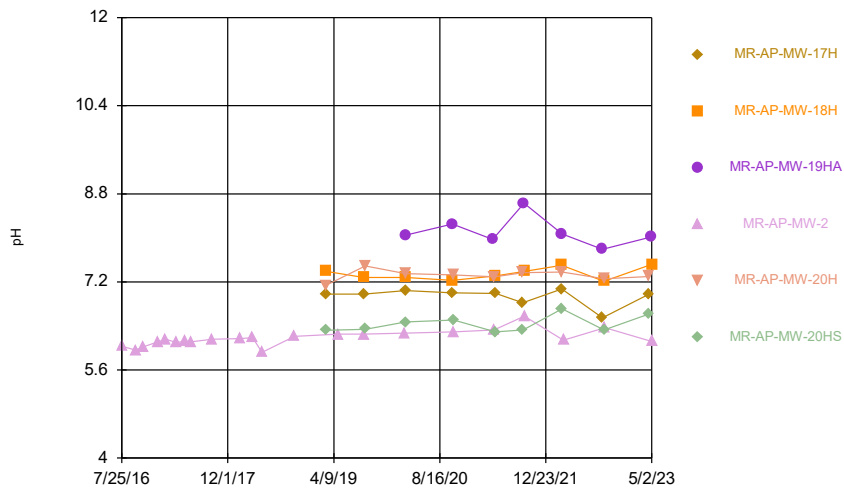
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



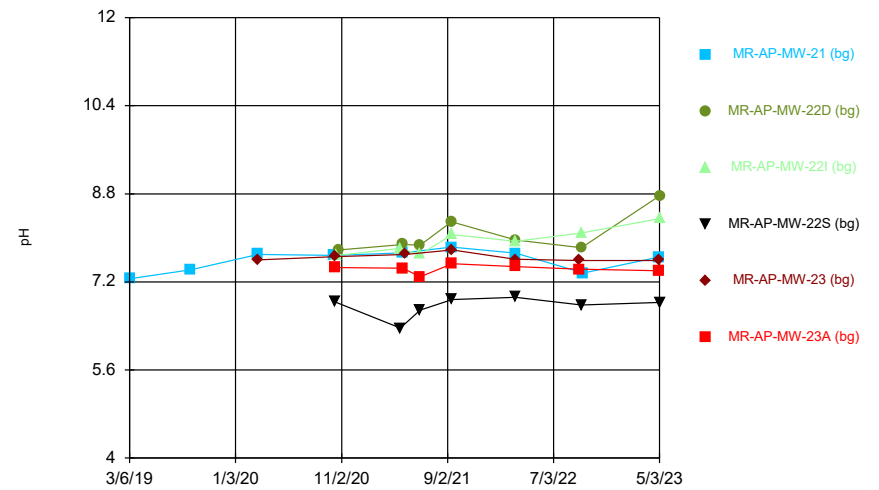
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



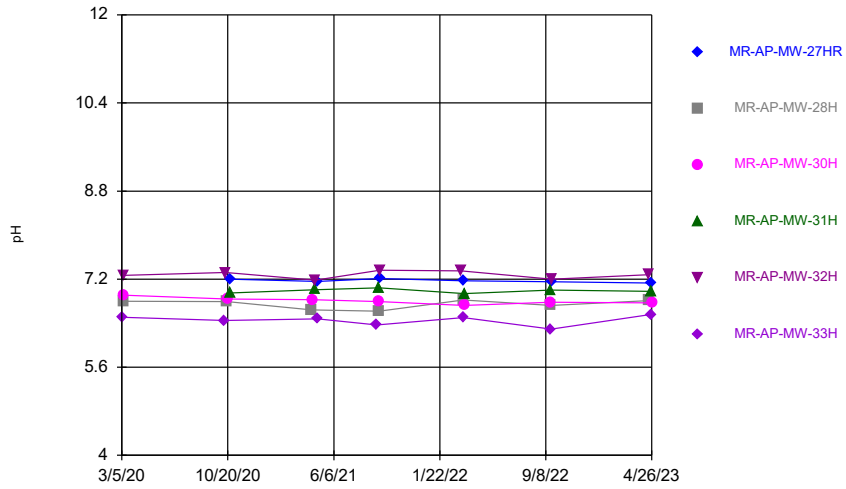
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



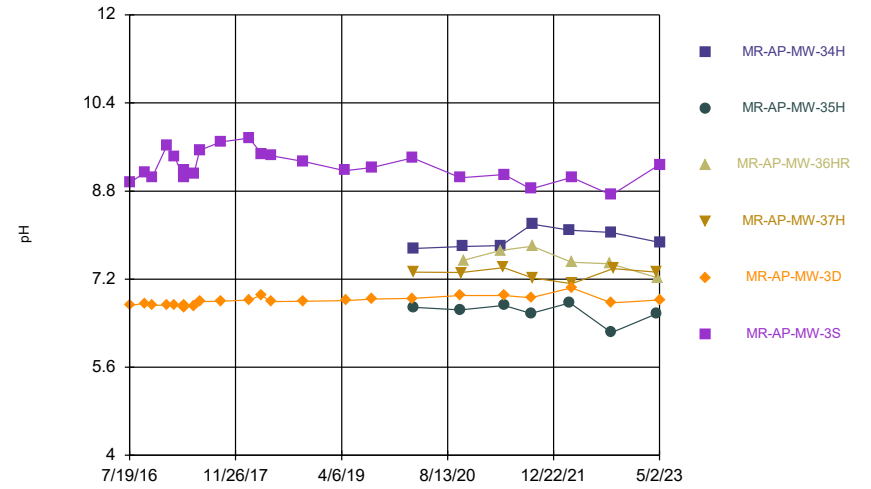
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Time Series



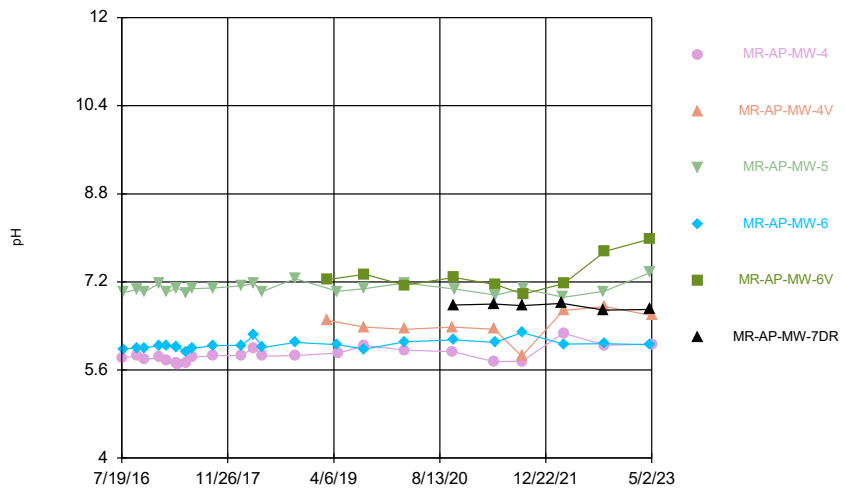
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Time Series



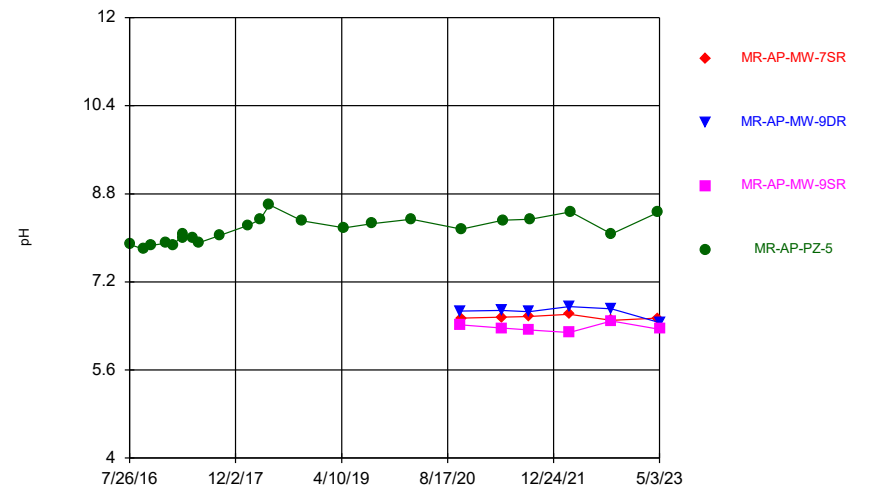
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



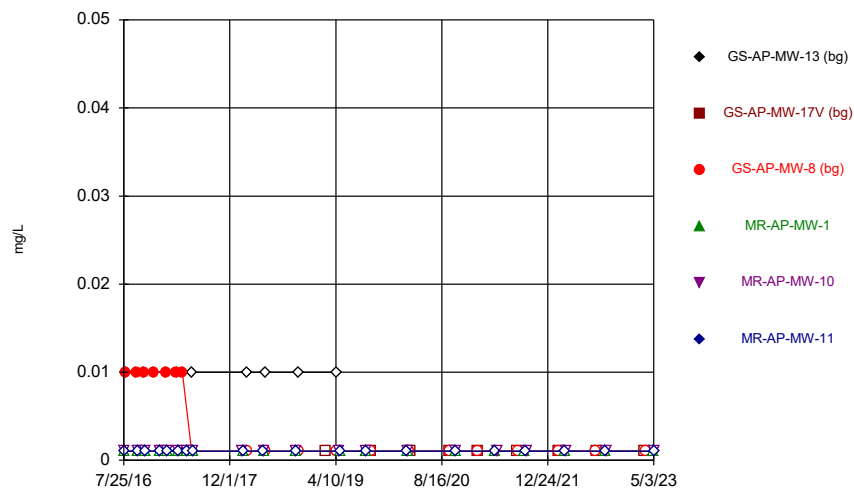
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Time Series



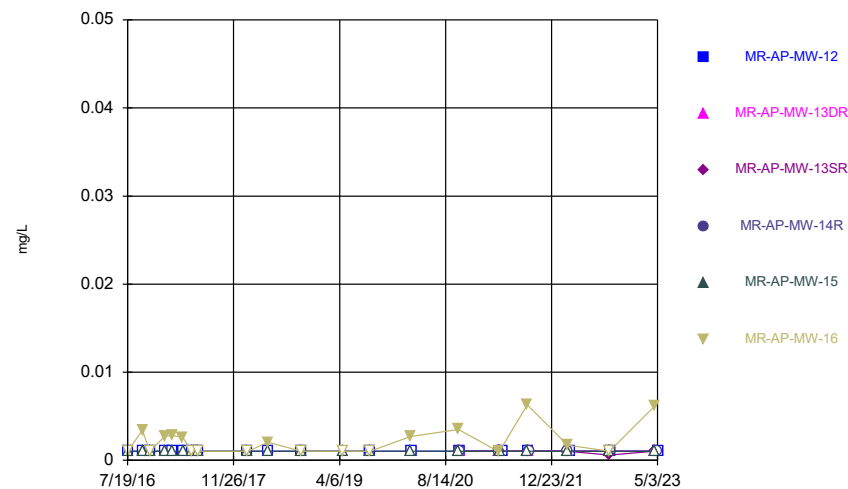
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Time Series



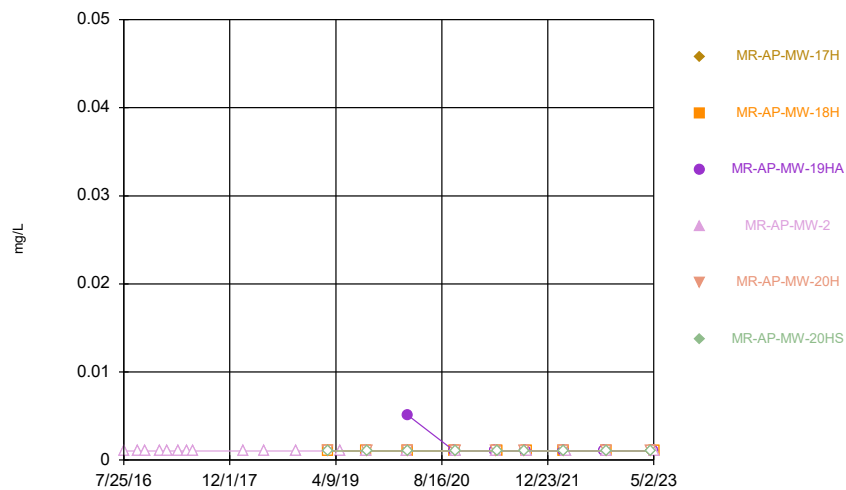
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Time Series



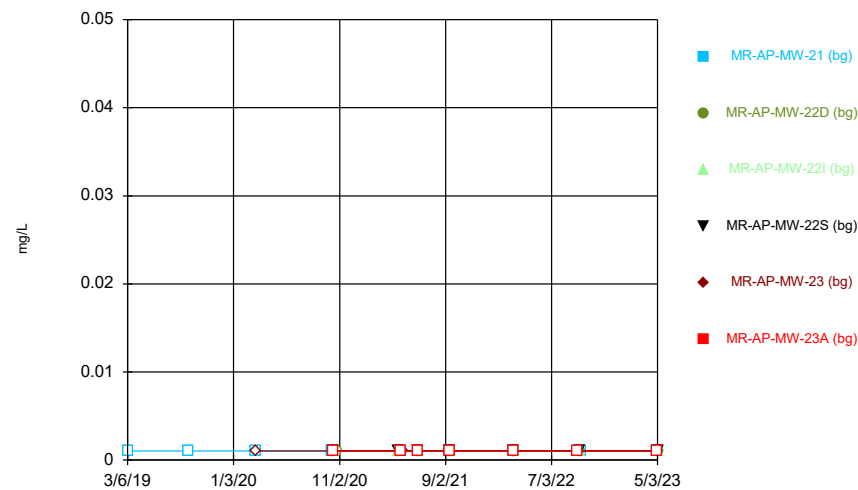
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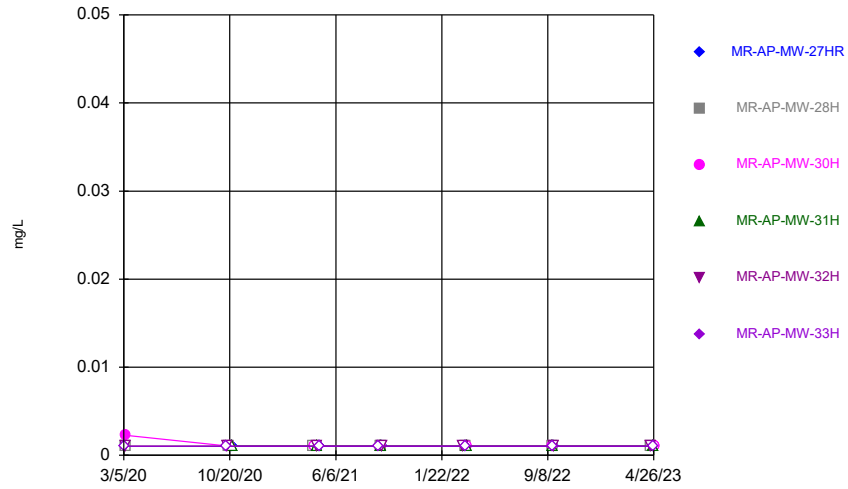
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Time Series



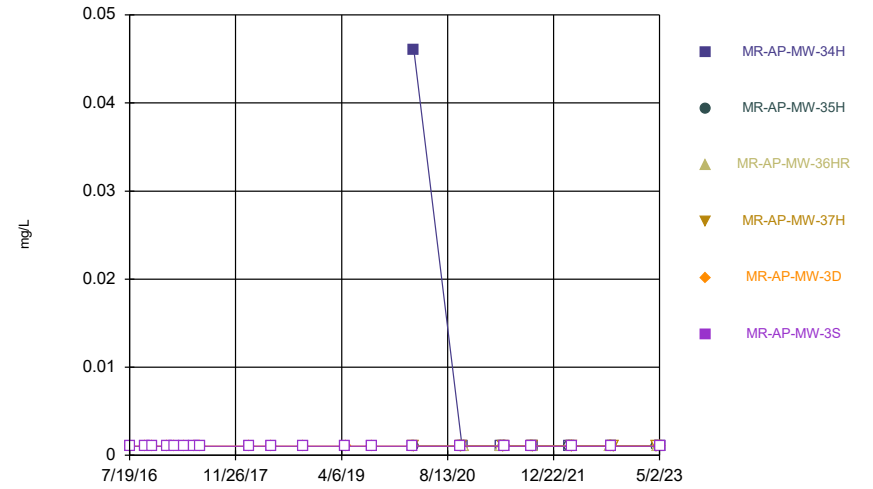
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Time Series



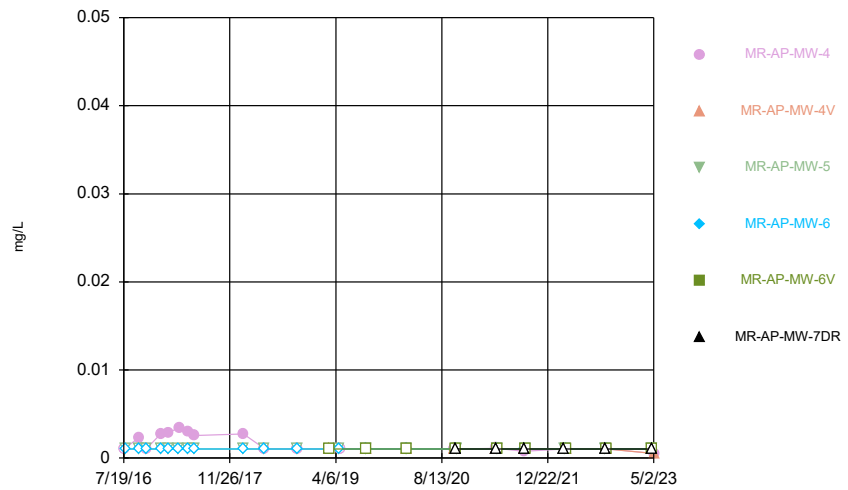
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Time Series



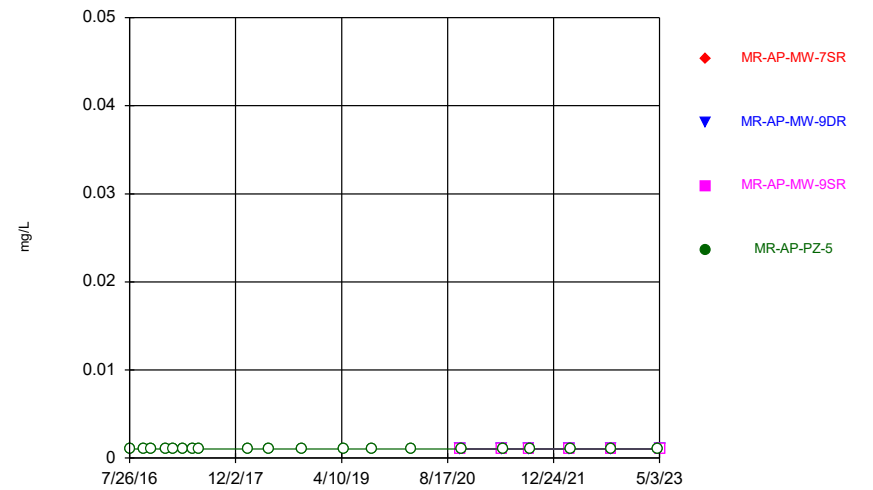
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



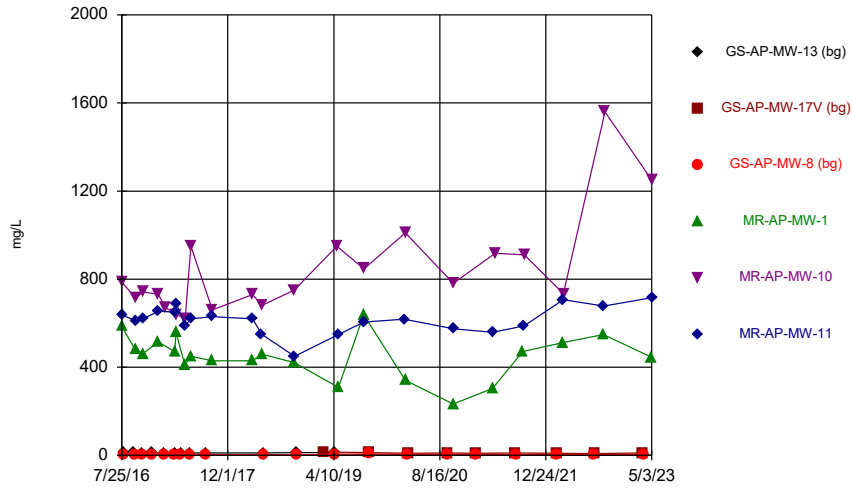
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Time Series



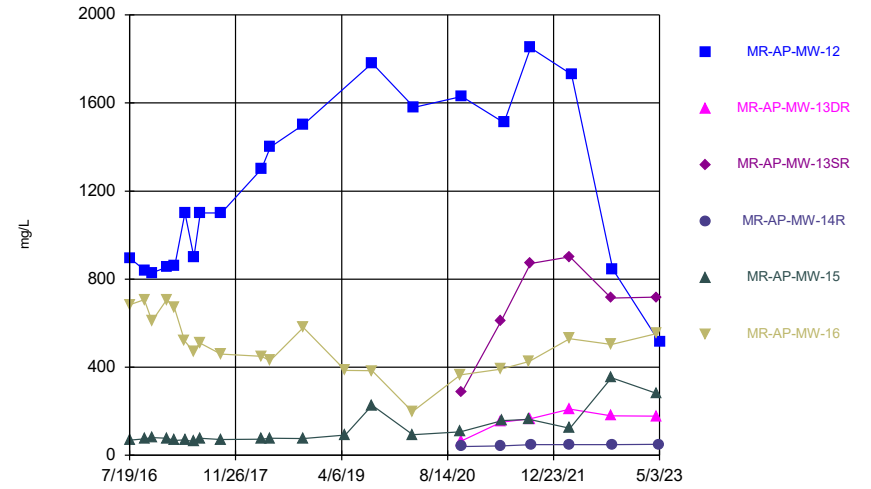
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Time Series



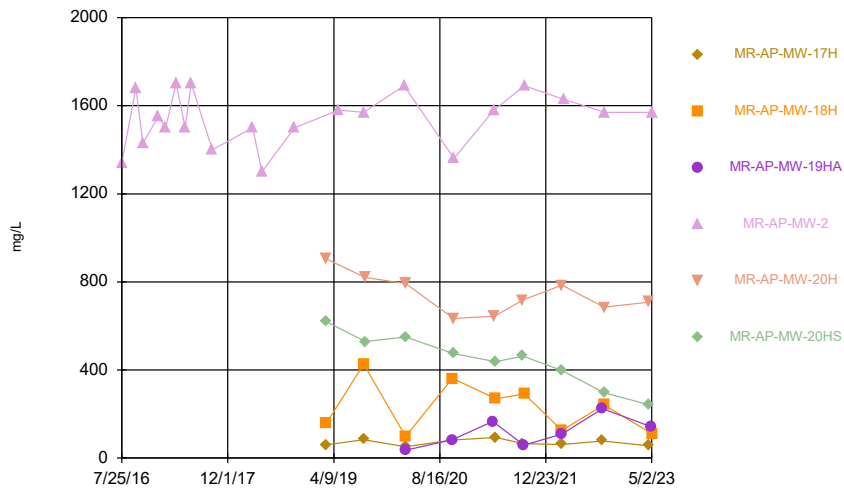
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



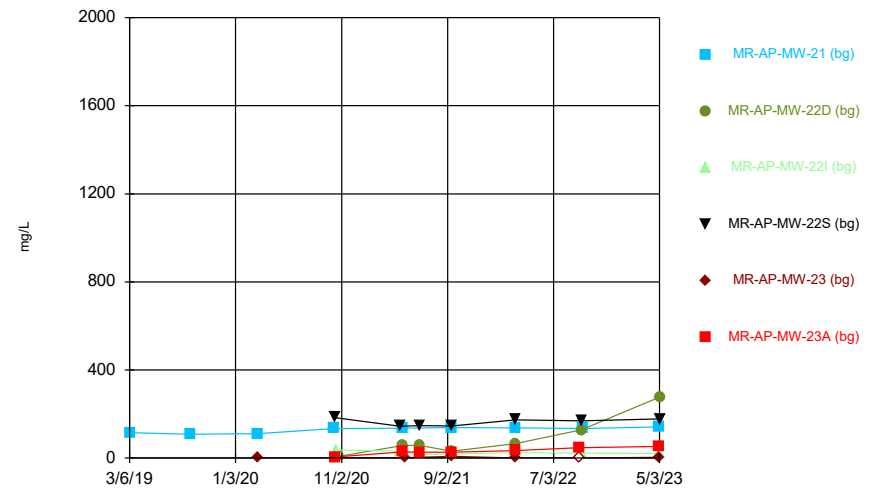
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



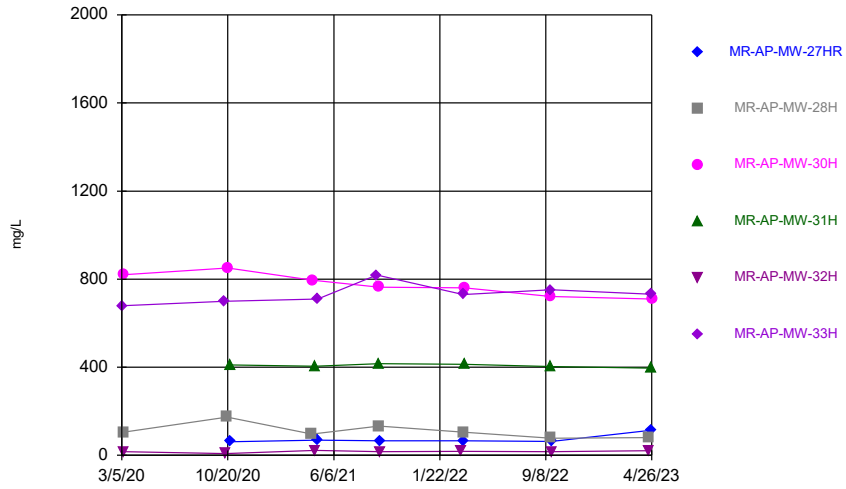
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



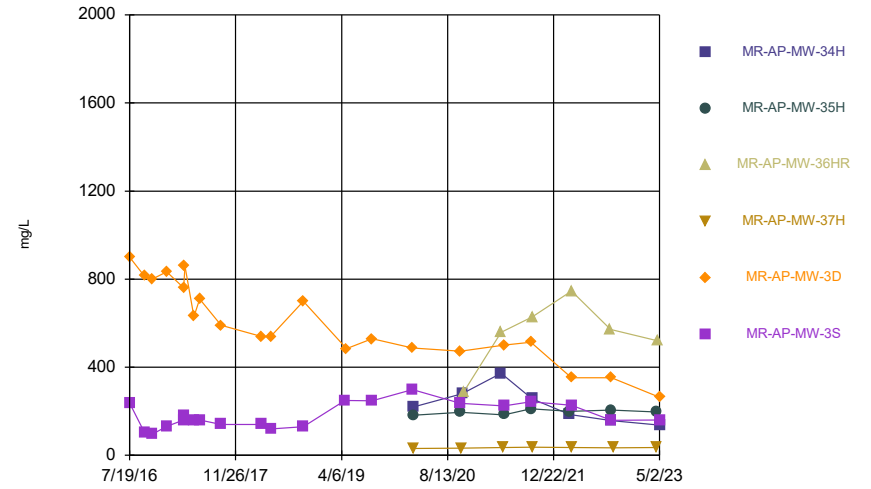
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Time Series



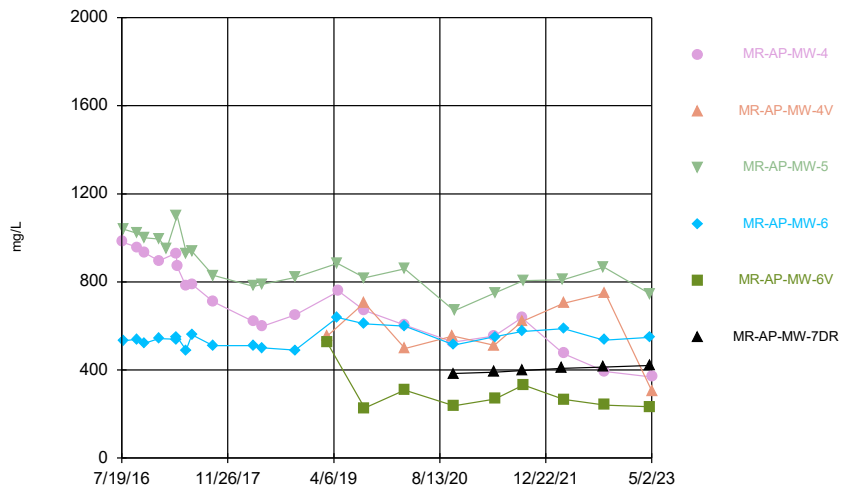
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Time Series



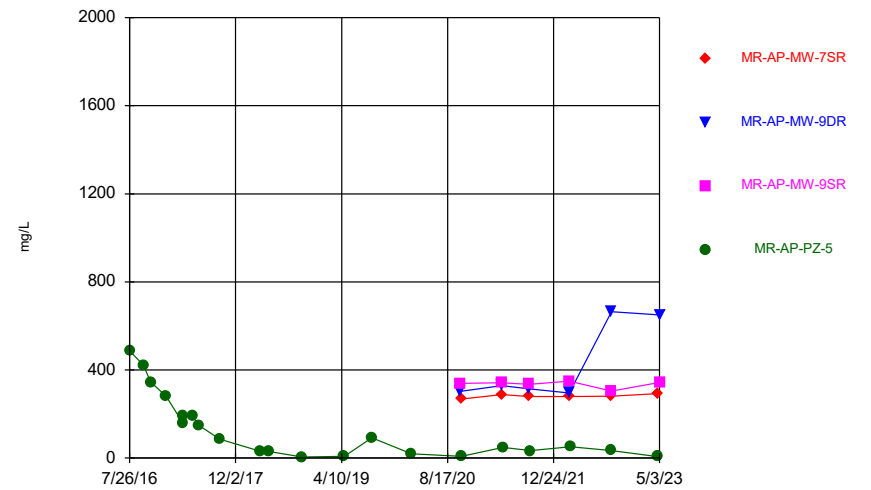
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Time Series



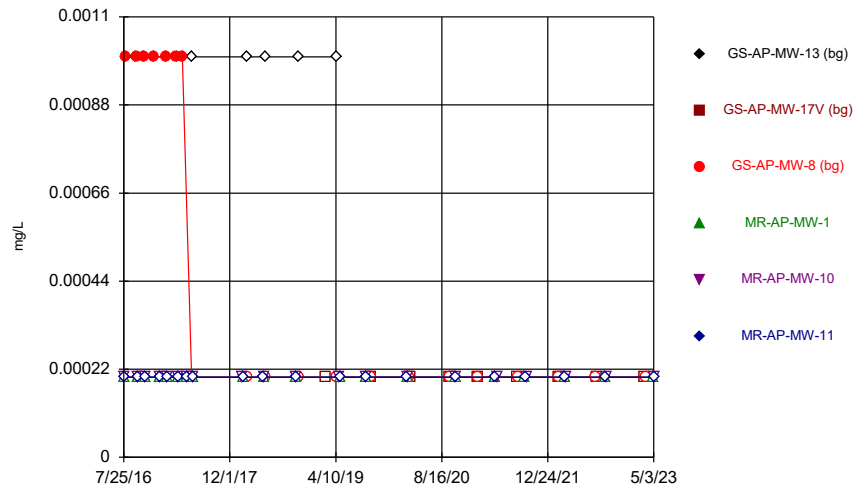
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Time Series



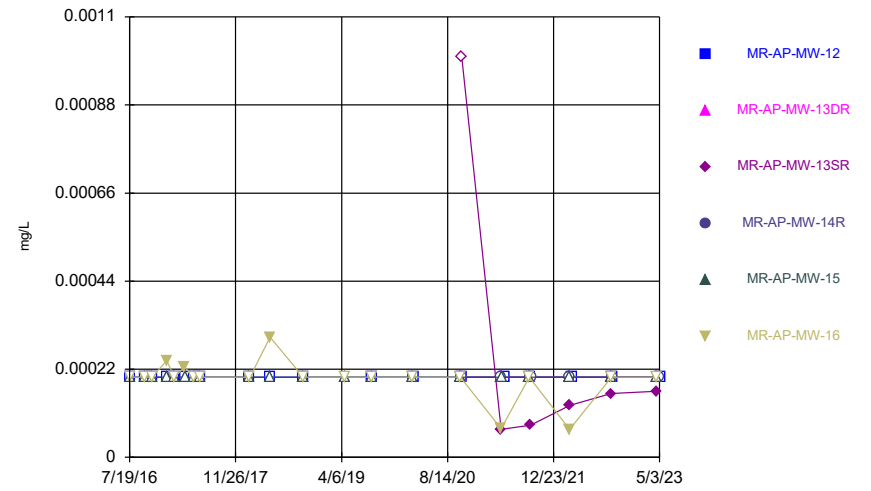
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



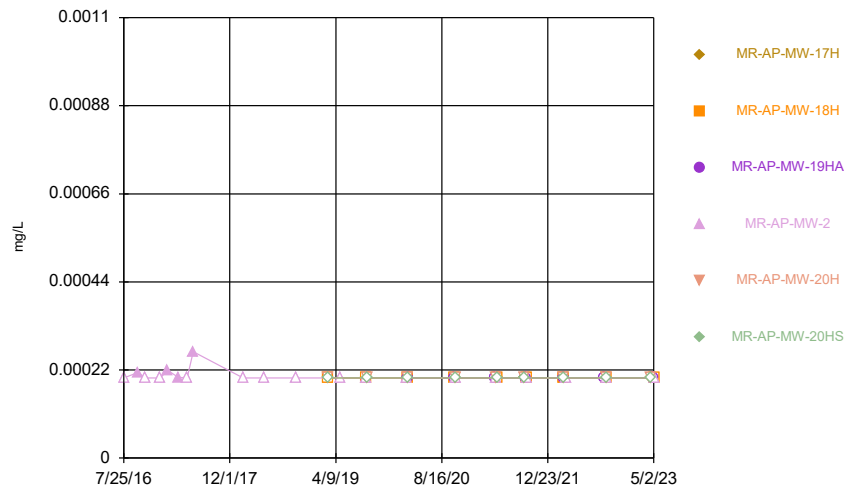
Constituent: Thallium Analysis Run 6/27/2023 8:42 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



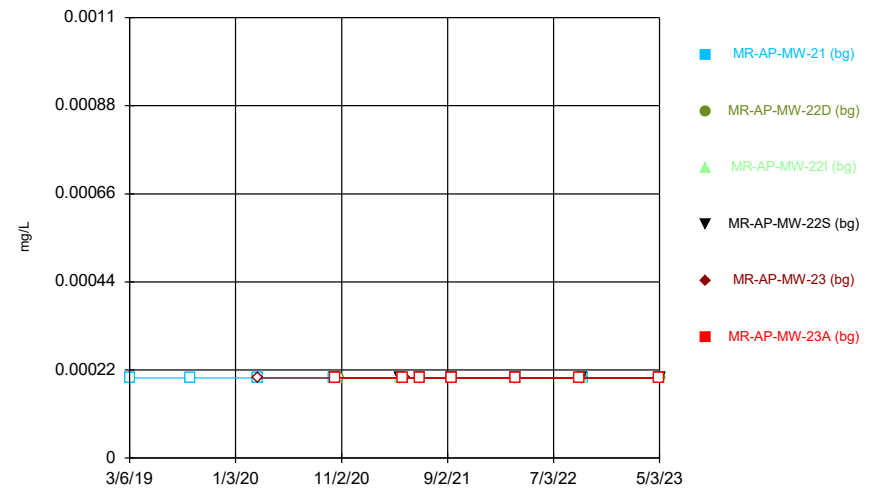
Constituent: Thallium Analysis Run 6/27/2023 8:42 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



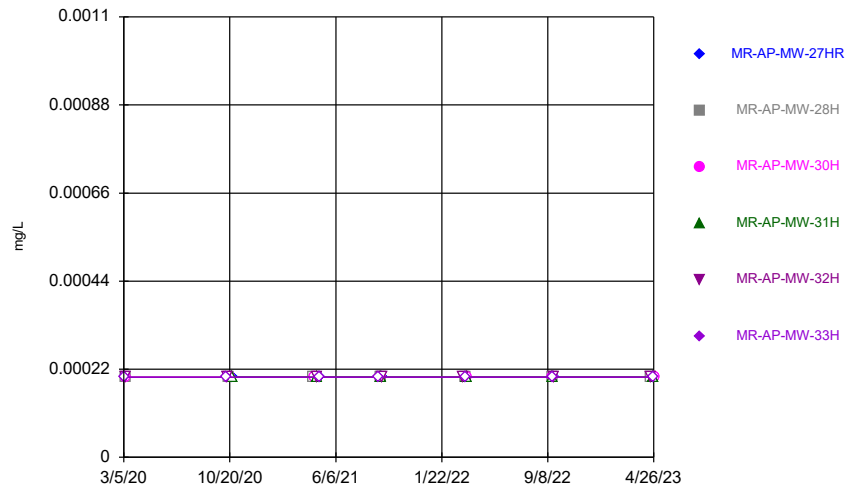
Constituent: Thallium Analysis Run 6/27/2023 8:43 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



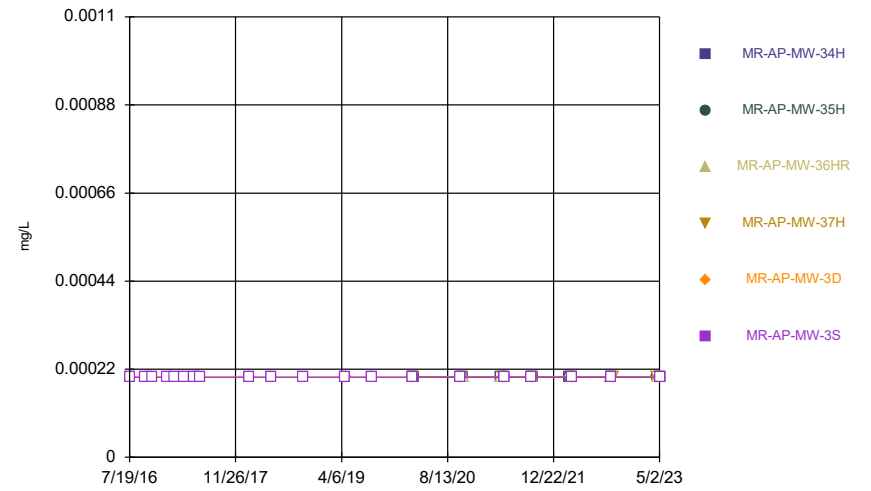
Constituent: Thallium Analysis Run 6/27/2023 8:43 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



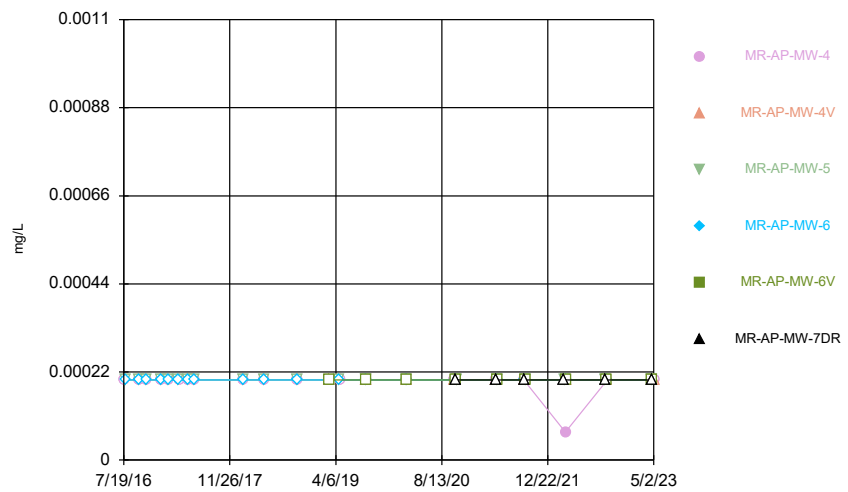
Constituent: Thallium Analysis Run 6/27/2023 8:43 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



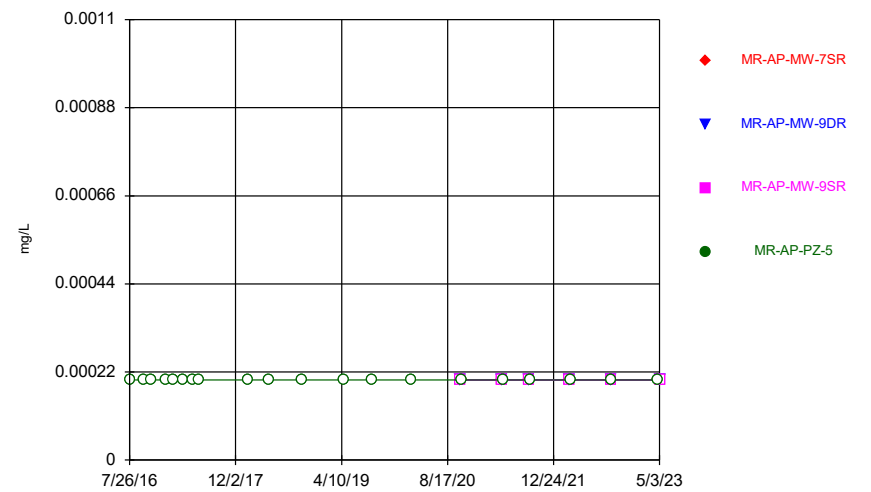
Constituent: Thallium Analysis Run 6/27/2023 8:43 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



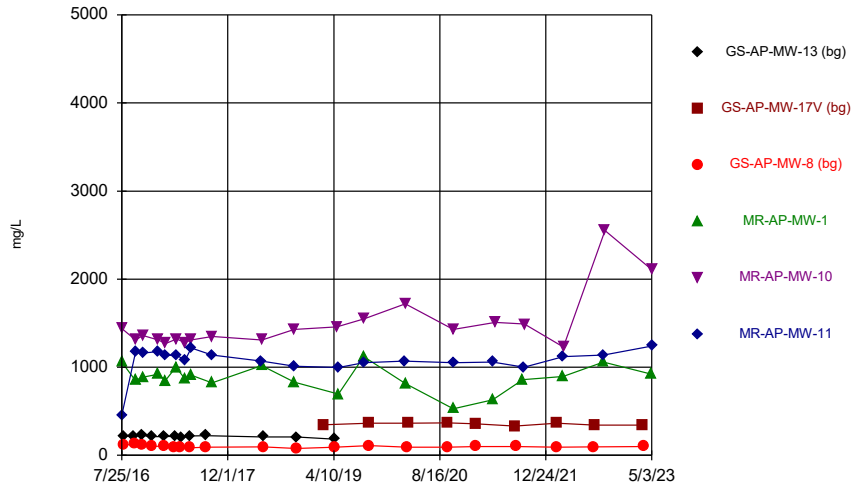
Constituent: Thallium Analysis Run 6/27/2023 8:43 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



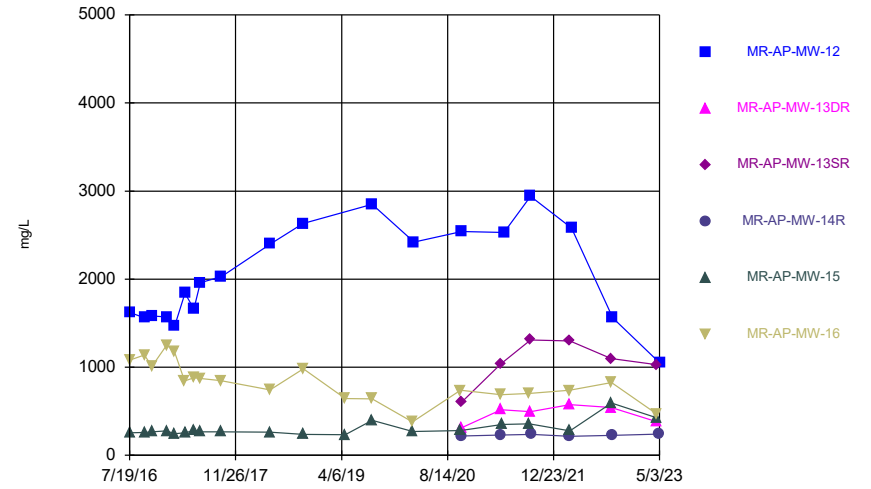
Constituent: Thallium Analysis Run 6/27/2023 8:43 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



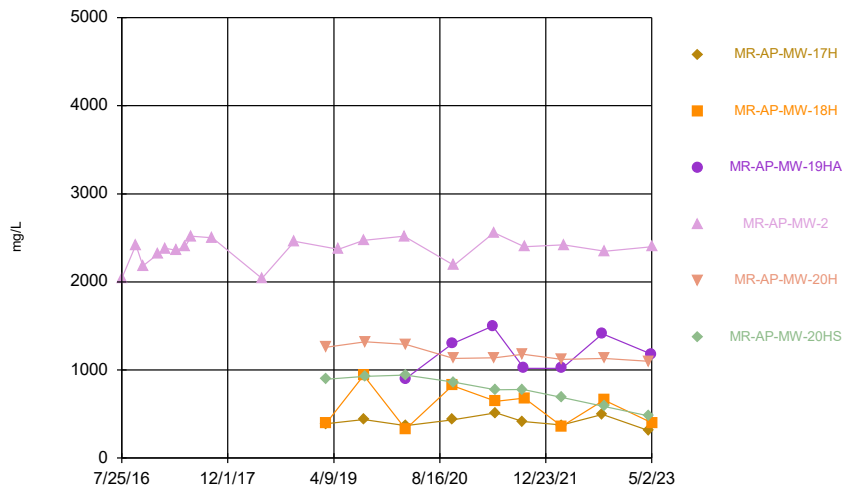
Constituent: Total Dissolved Solids [TDS] Analysis Run 6/27/2023 8:43 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



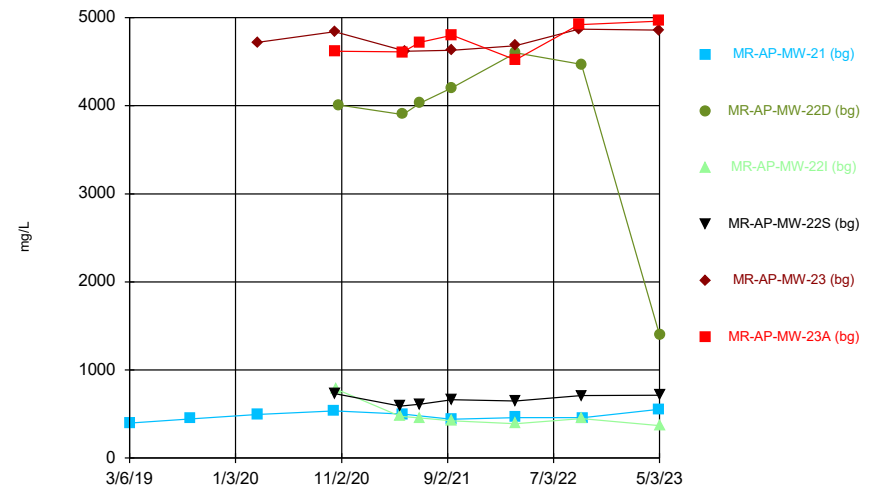
Constituent: Total Dissolved Solids [TDS] Analysis Run 6/27/2023 8:43 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



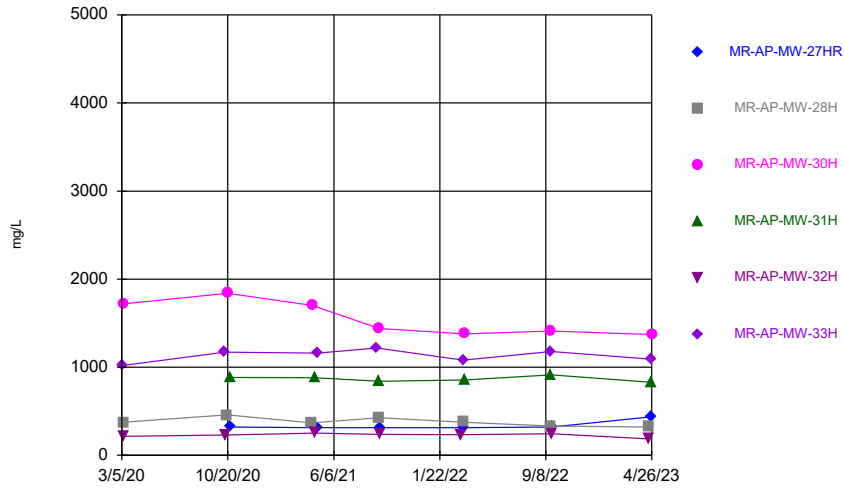
Constituent: Total Dissolved Solids [TDS] Analysis Run 6/27/2023 8:43 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



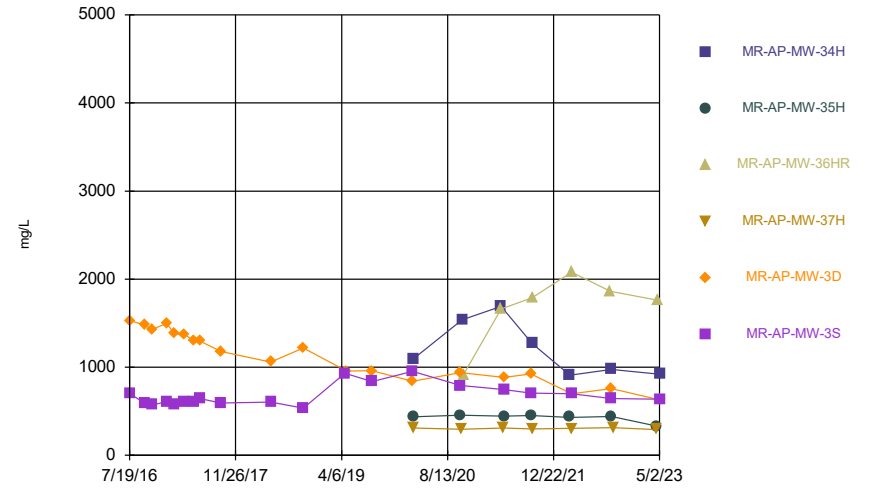
Constituent: Total Dissolved Solids [TDS] Analysis Run 6/27/2023 8:43 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



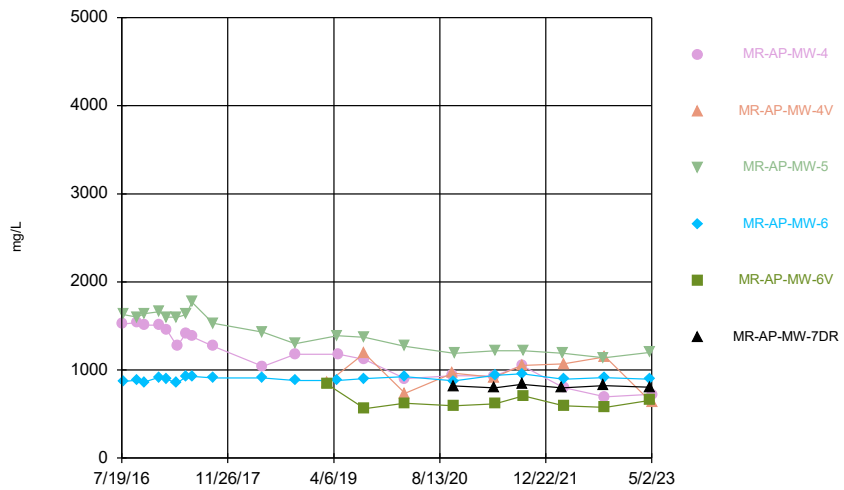
Constituent: Total Dissolved Solids [TDS] Analysis Run 6/27/2023 8:43 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



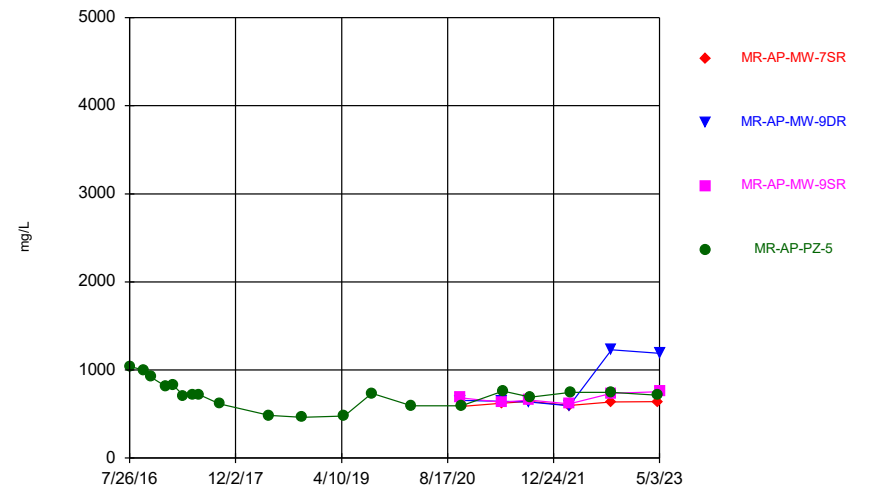
Constituent: Total Dissolved Solids [TDS] Analysis Run 6/27/2023 8:43 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

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	<0.0002		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			

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

	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
9/14/2021	<0.0005	<0.0005				
9/15/2021			<0.0005	<0.0005	<0.0005	<0.0005
3/15/2022					<0.0005	
3/16/2022			<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		
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

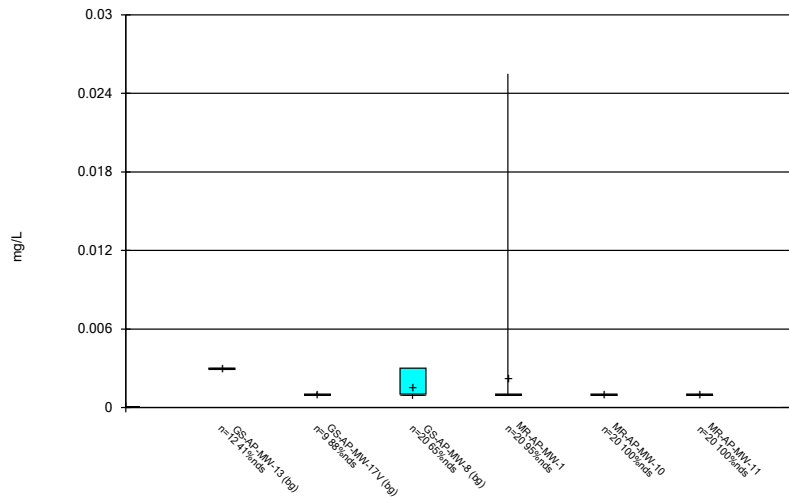
Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 6/27/2023 8:44 AM

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	

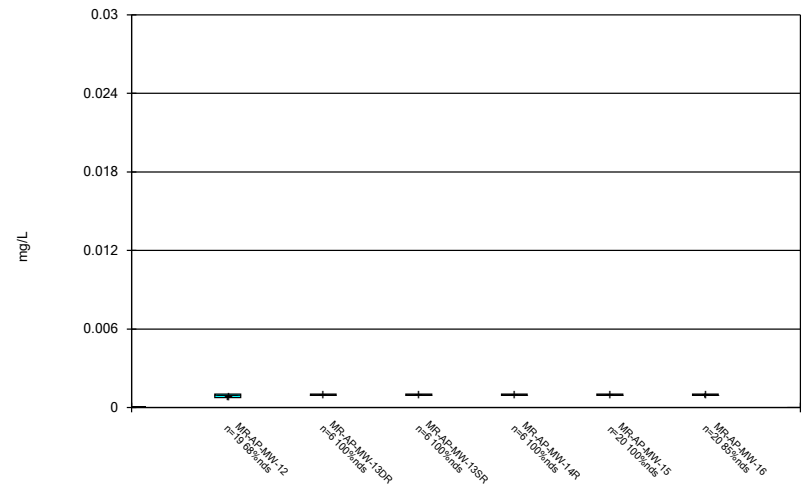
FIGURE B.

Box & Whiskers Plot



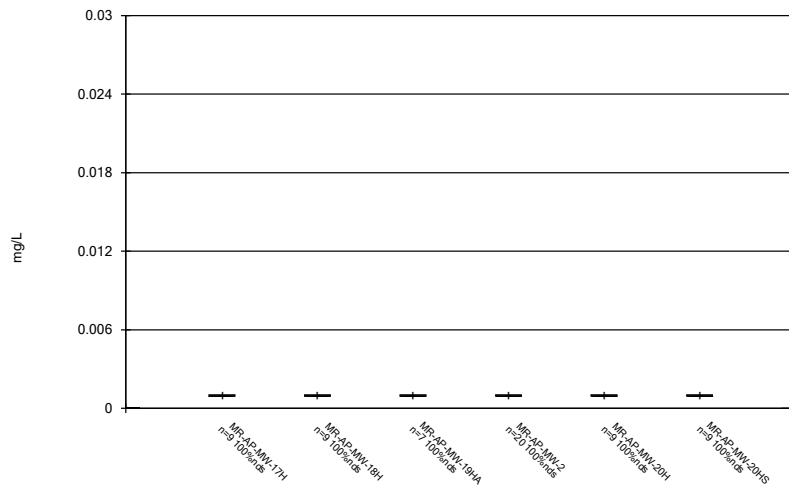
Constituent: Antimony Analysis Run 6/28/2023 11:48 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



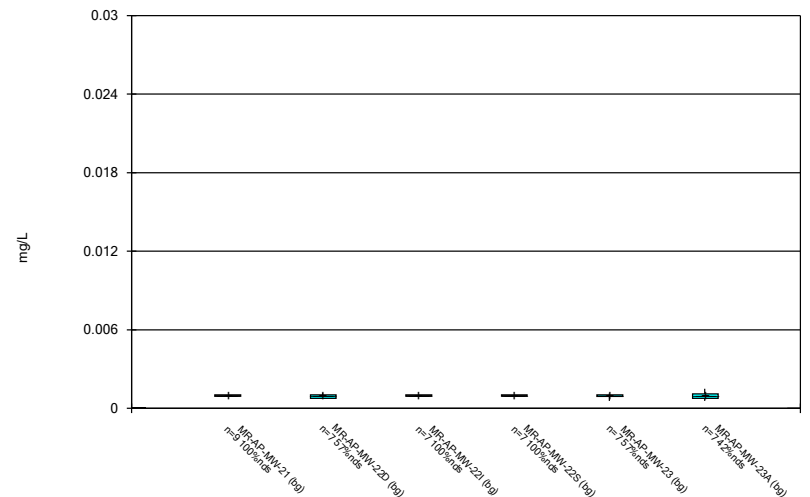
Constituent: Antimony Analysis Run 6/28/2023 11:48 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



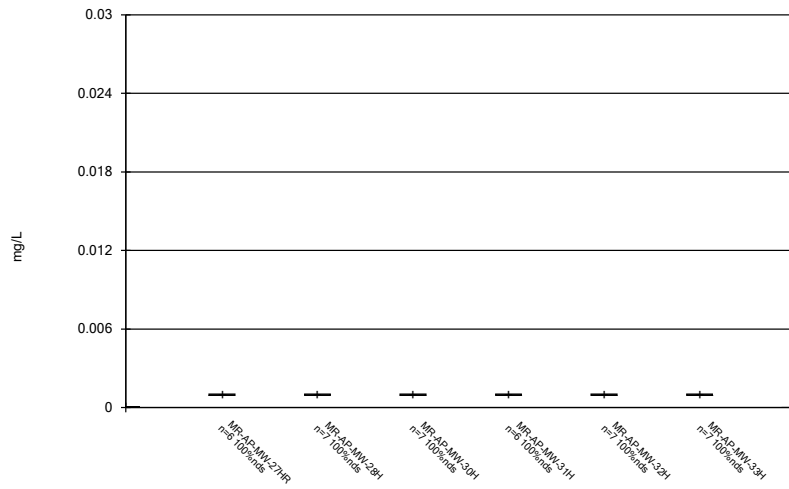
Constituent: Antimony Analysis Run 6/28/2023 11:48 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



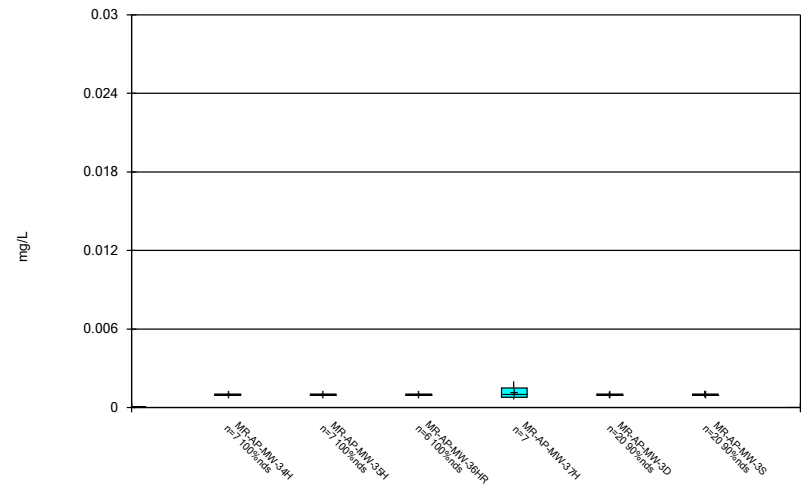
Constituent: Antimony Analysis Run 6/28/2023 11:48 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



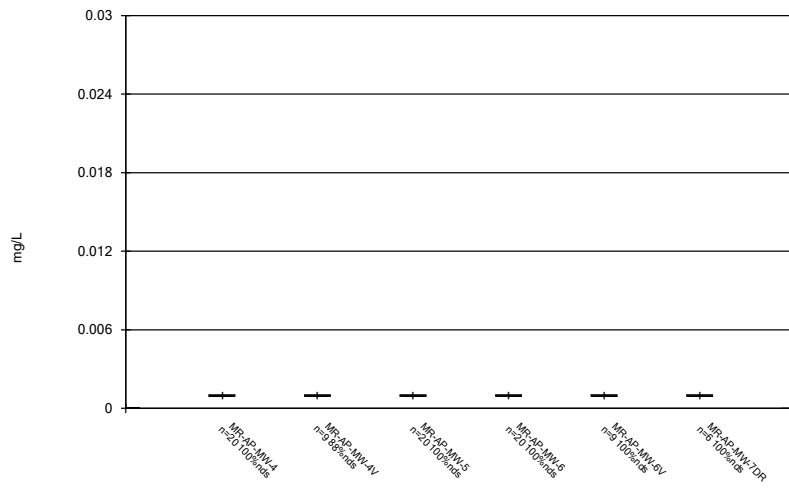
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Box & Whiskers Plot



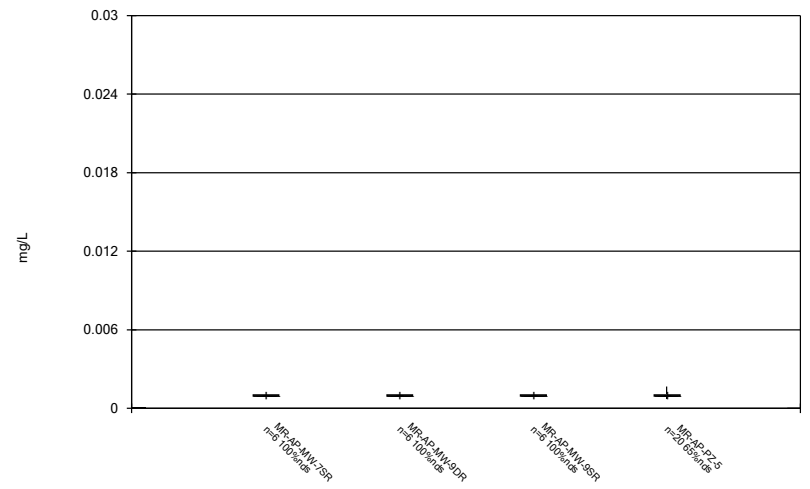
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Box & Whiskers Plot



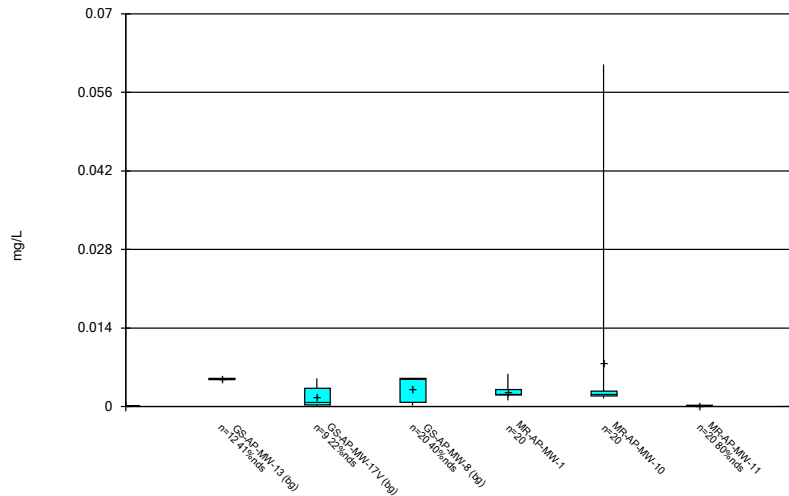
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Box & Whiskers Plot



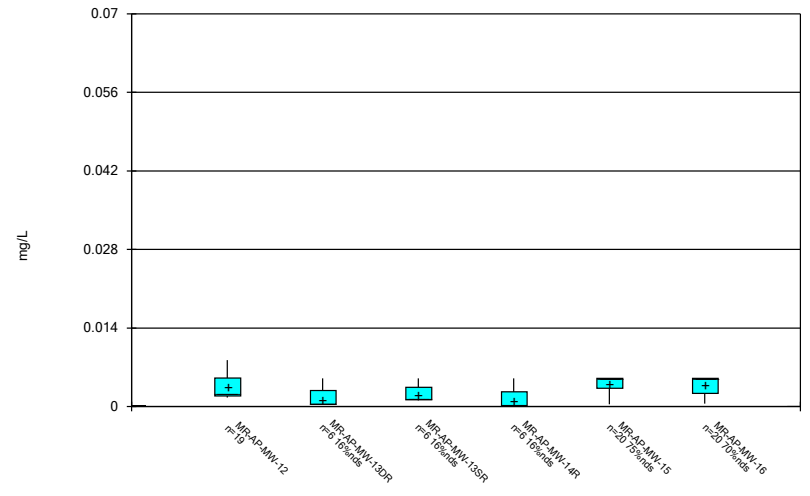
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Box & Whiskers Plot



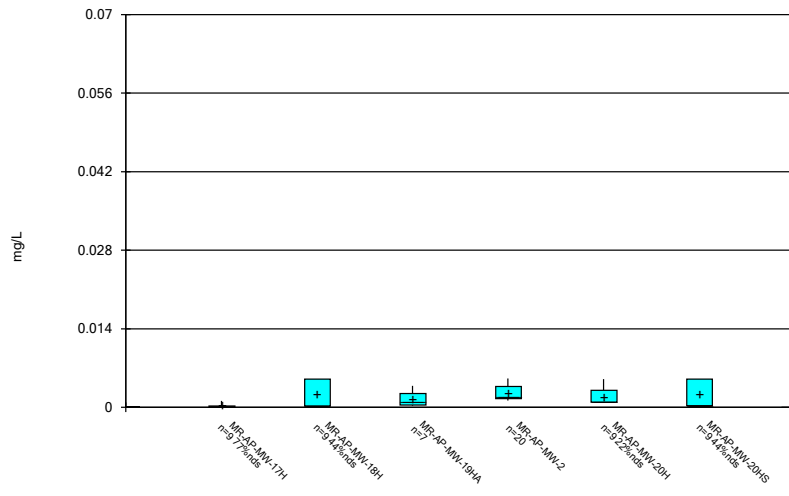
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Box & Whiskers Plot



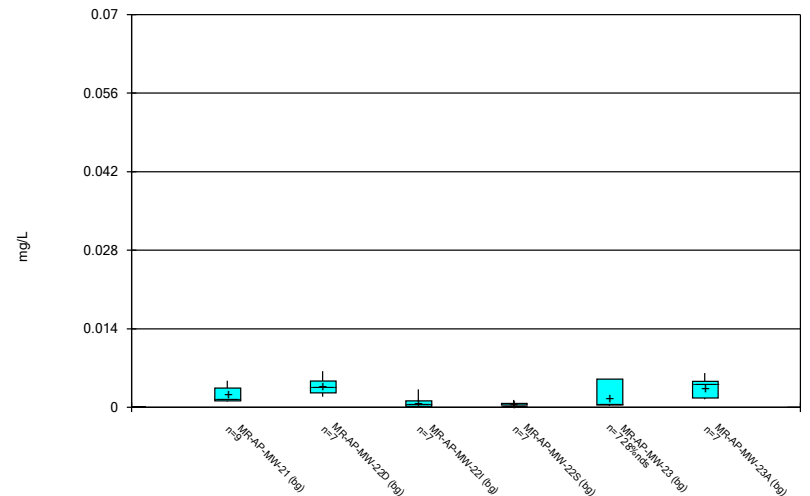
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Box & Whiskers Plot



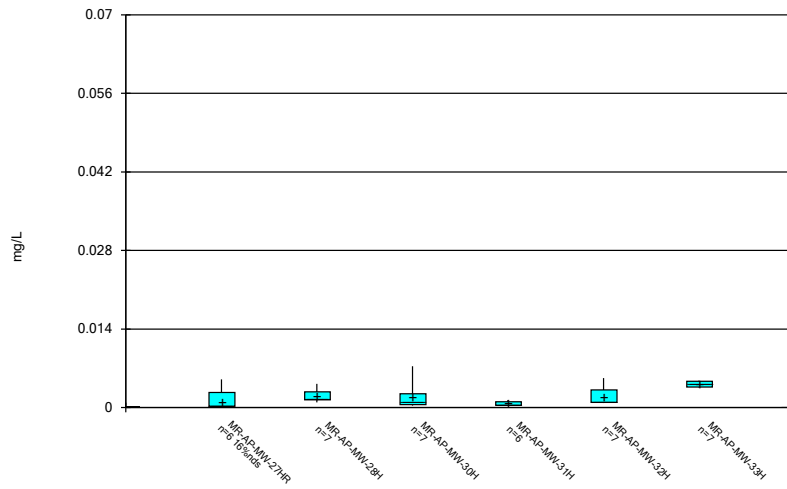
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Box & Whiskers Plot



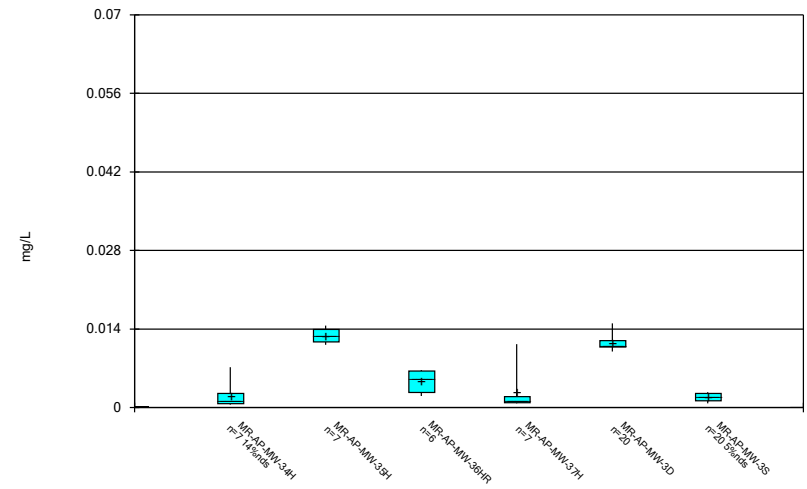
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Box & Whiskers Plot



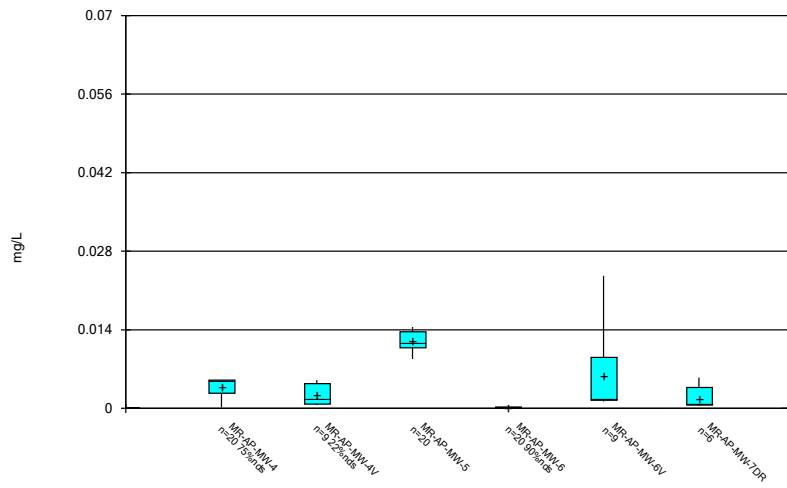
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Box & Whiskers Plot



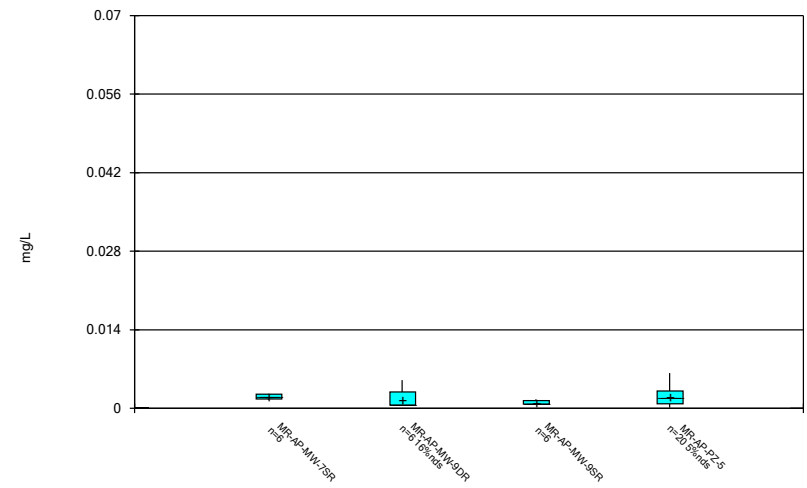
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Box & Whiskers Plot



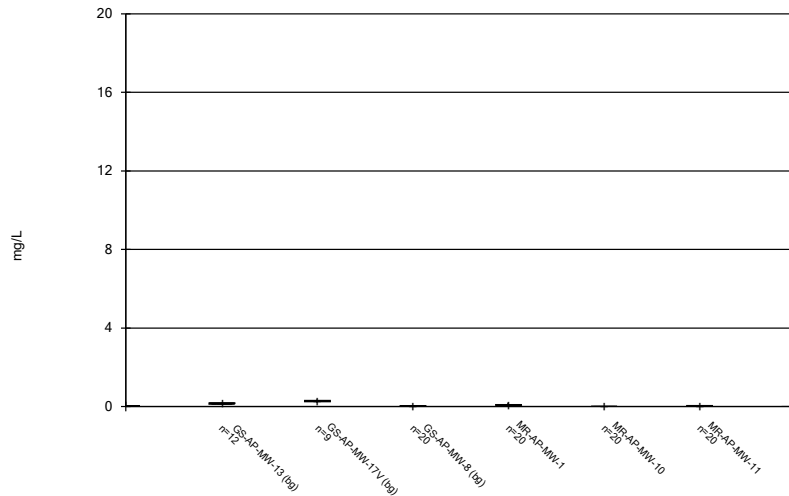
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Box & Whiskers Plot



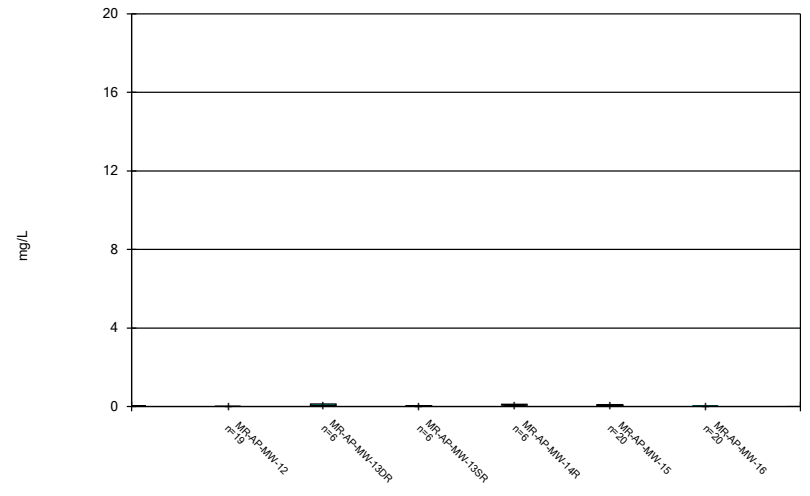
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Box & Whiskers Plot



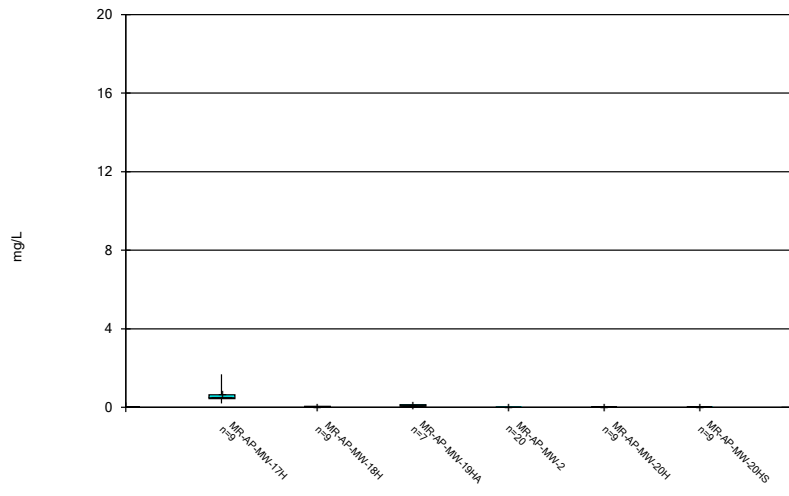
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Box & Whiskers Plot



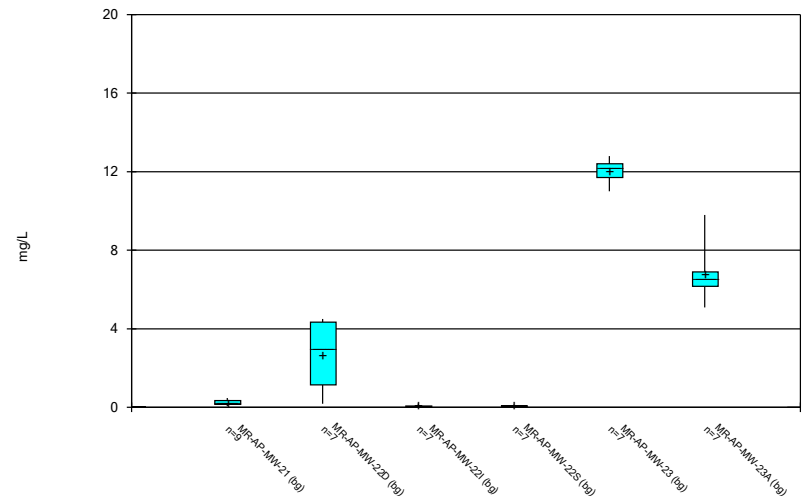
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Box & Whiskers Plot



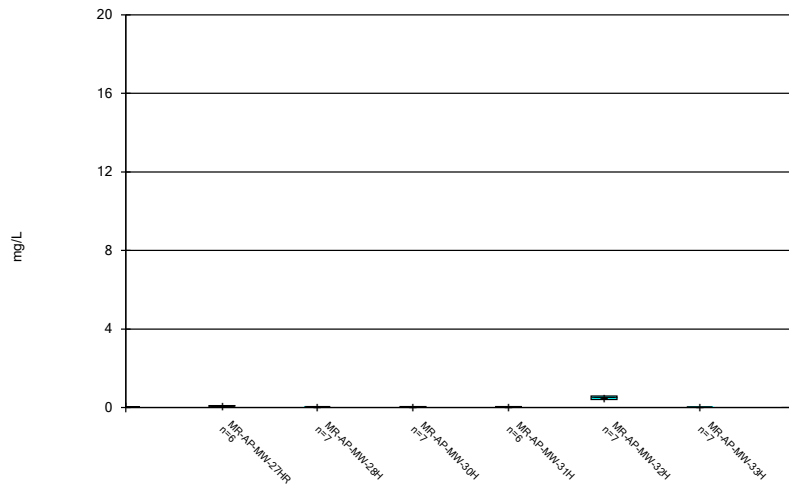
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Box & Whiskers Plot



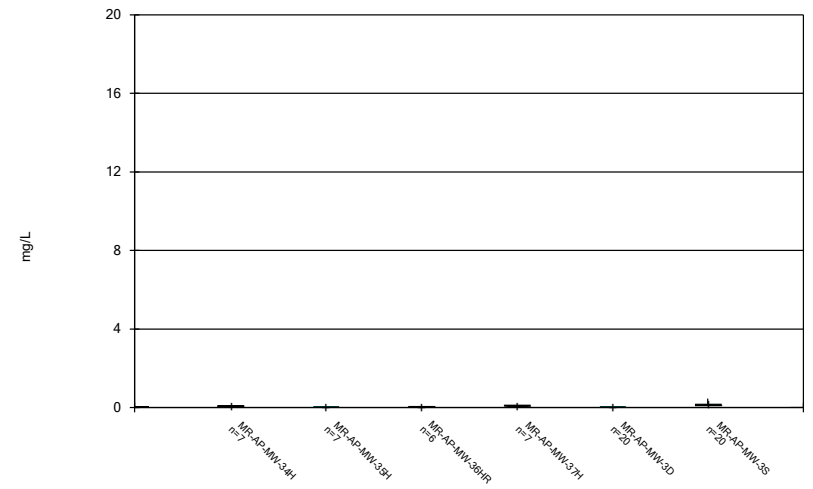
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Box & Whiskers Plot



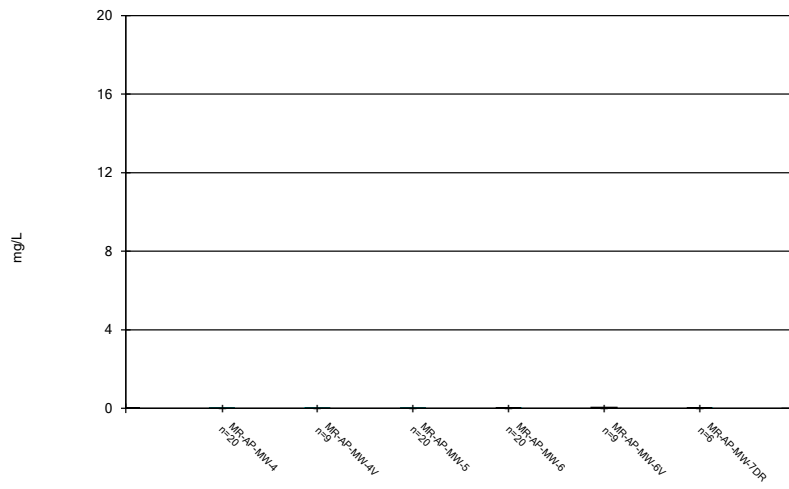
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Box & Whiskers Plot



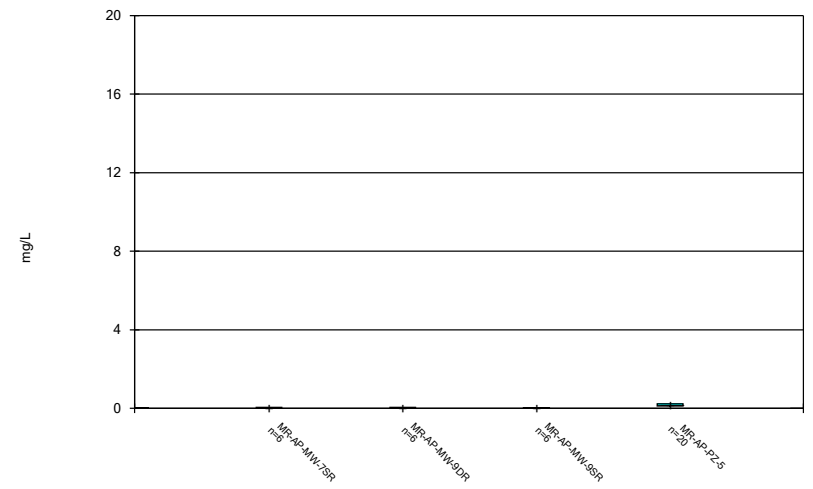
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Box & Whiskers Plot



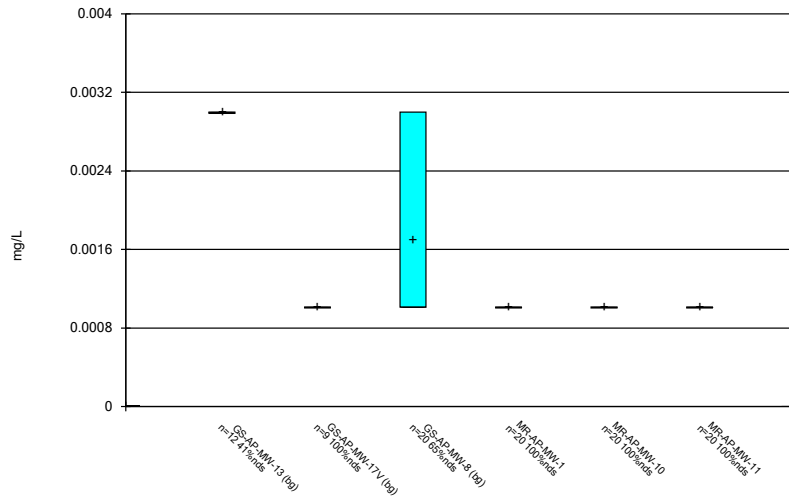
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Box & Whiskers Plot



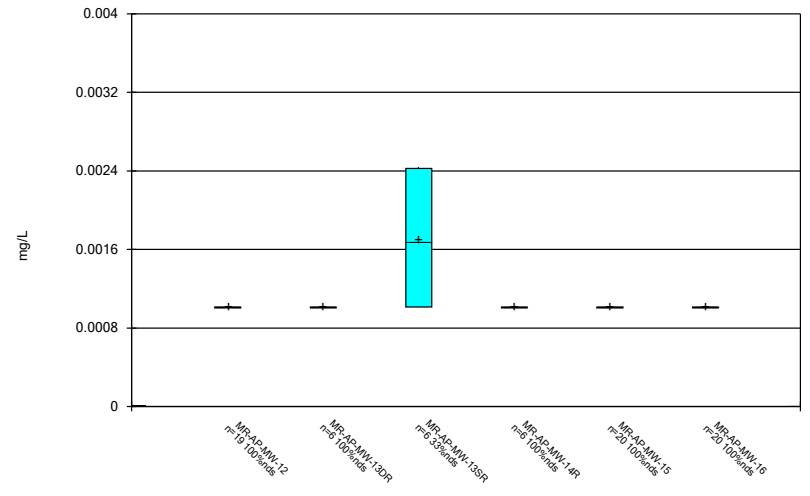
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Box & Whiskers Plot



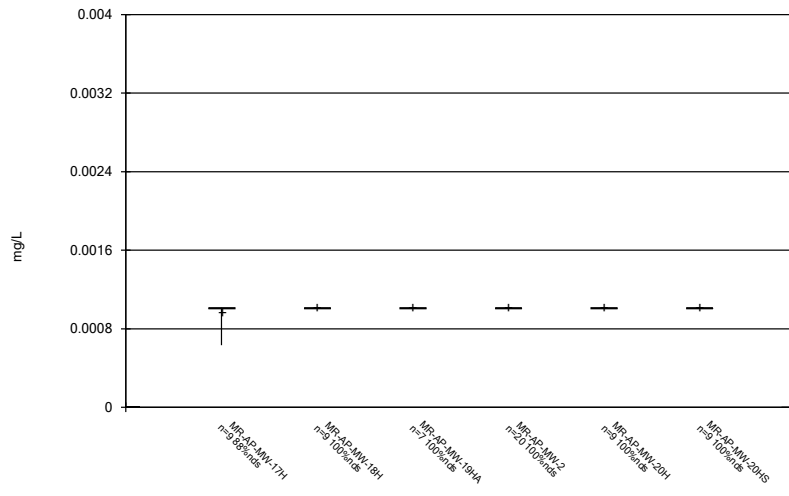
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Box & Whiskers Plot



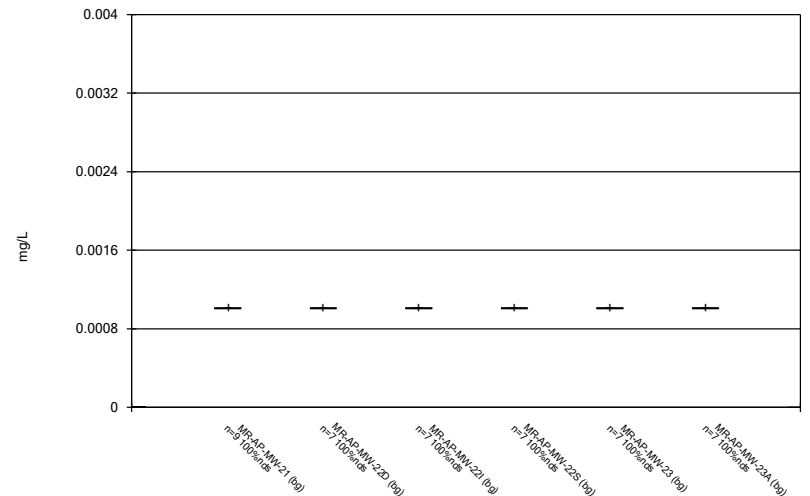
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Box & Whiskers Plot



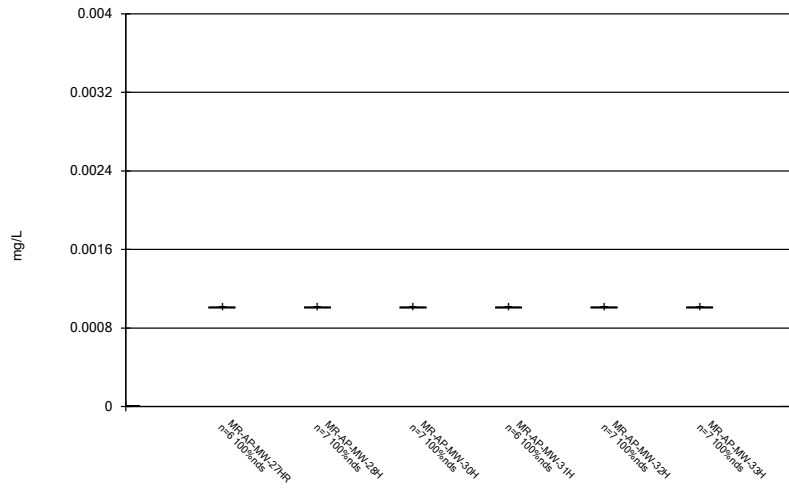
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Box & Whiskers Plot



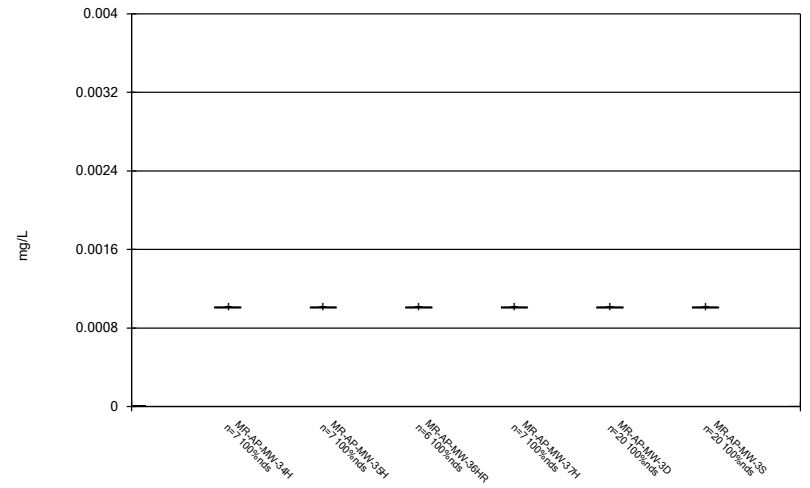
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Box & Whiskers Plot



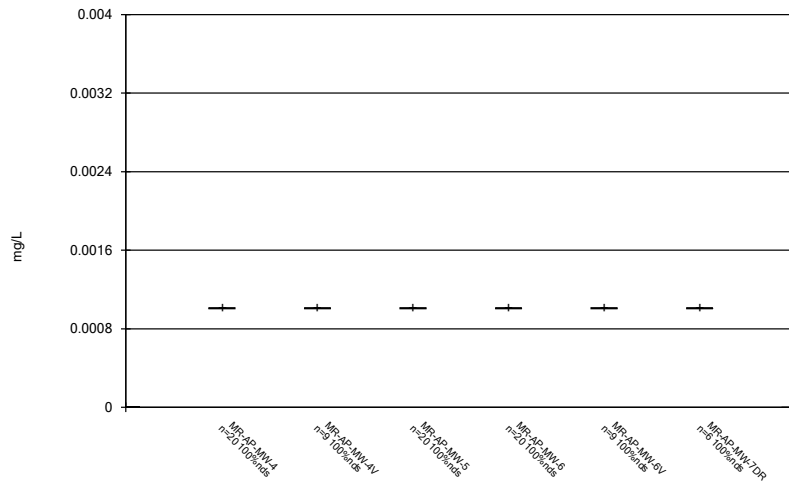
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Box & Whiskers Plot



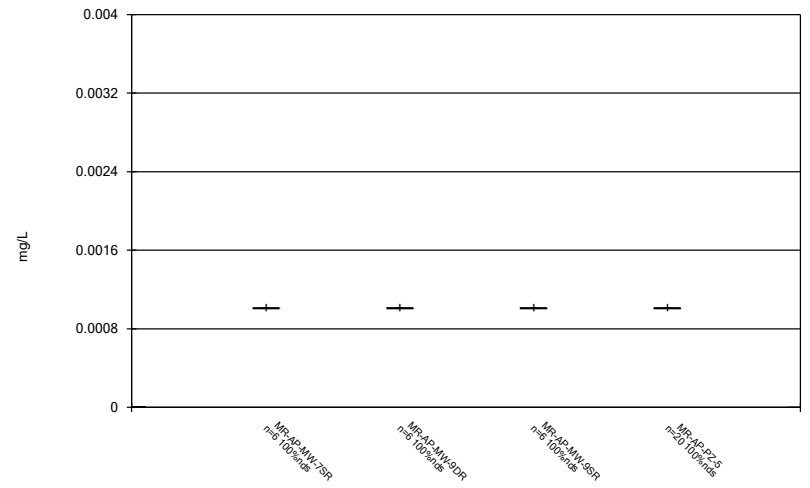
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Box & Whiskers Plot



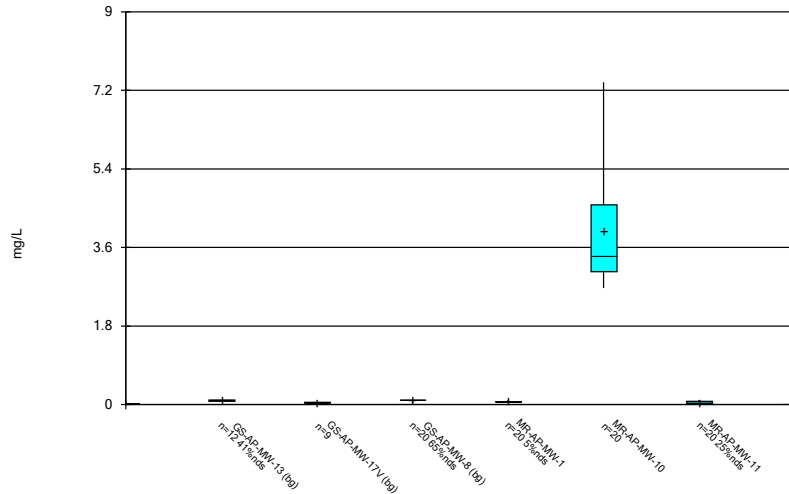
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Box & Whiskers Plot



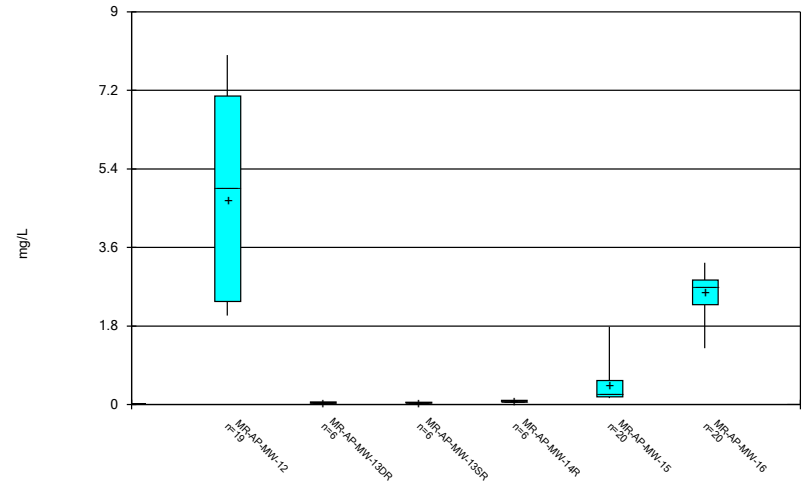
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Box & Whiskers Plot



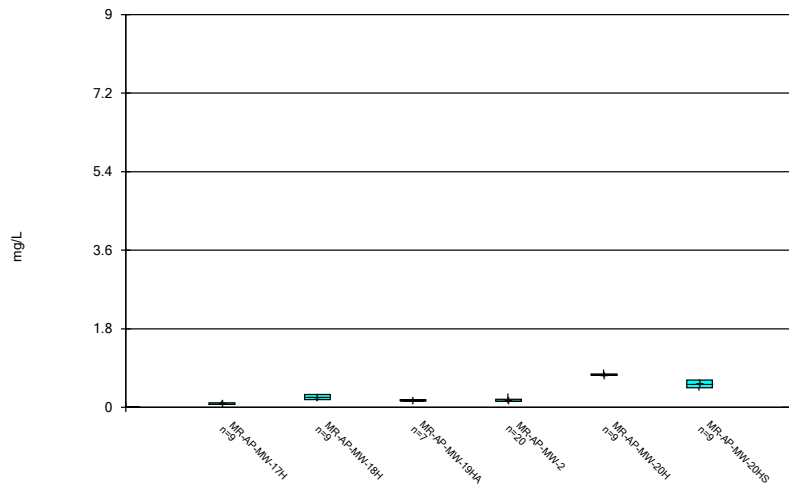
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Box & Whiskers Plot



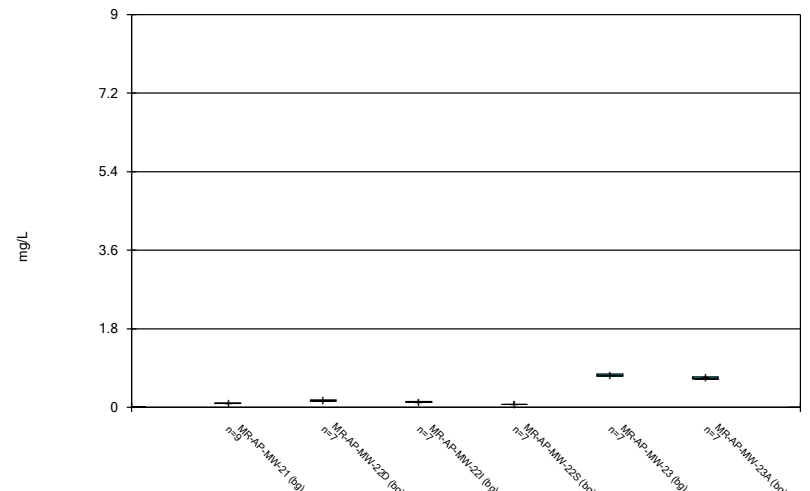
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Box & Whiskers Plot



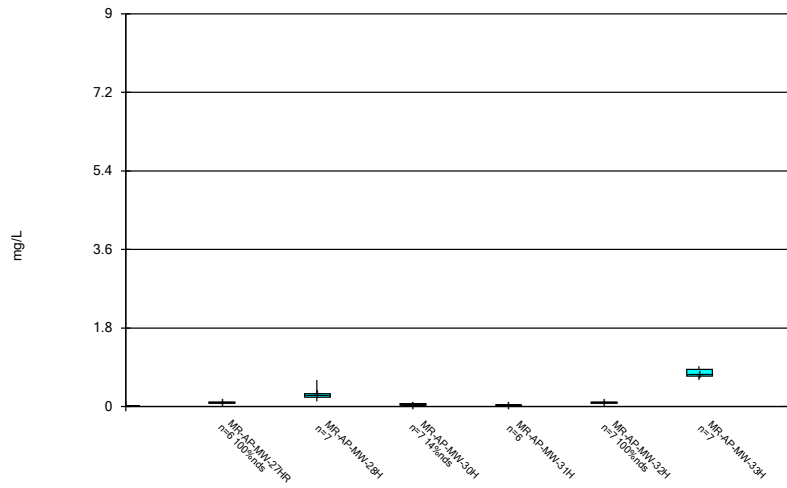
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Box & Whiskers Plot



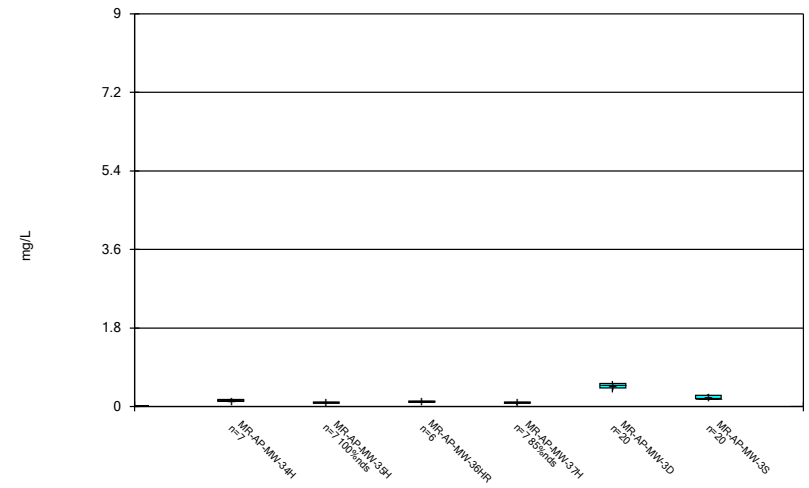
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Box & Whiskers Plot



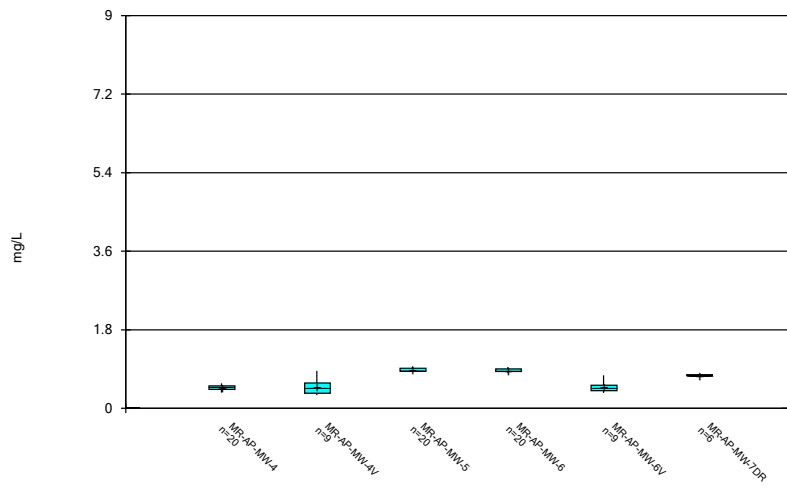
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Box & Whiskers Plot



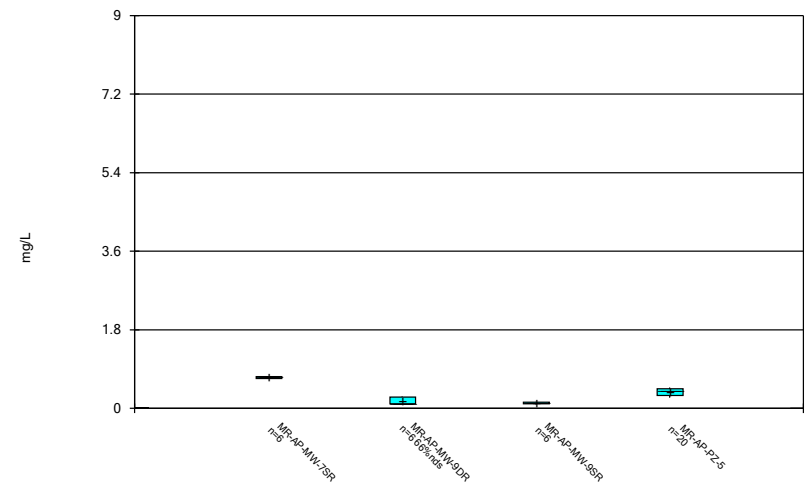
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Box & Whiskers Plot



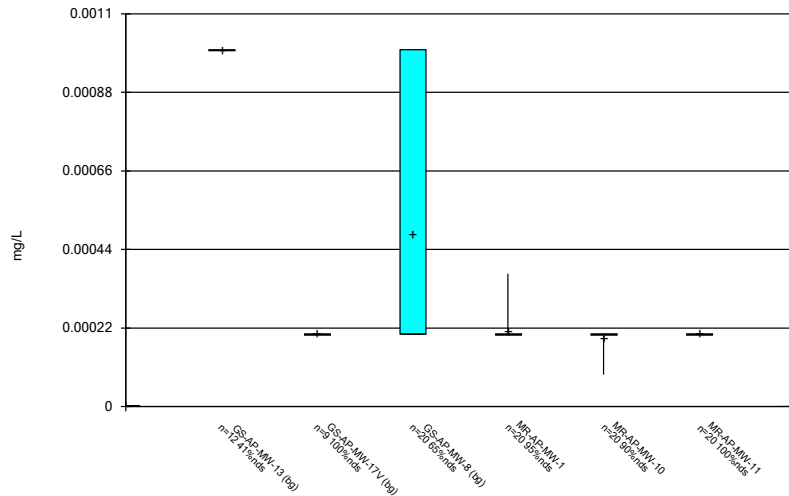
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Box & Whiskers Plot



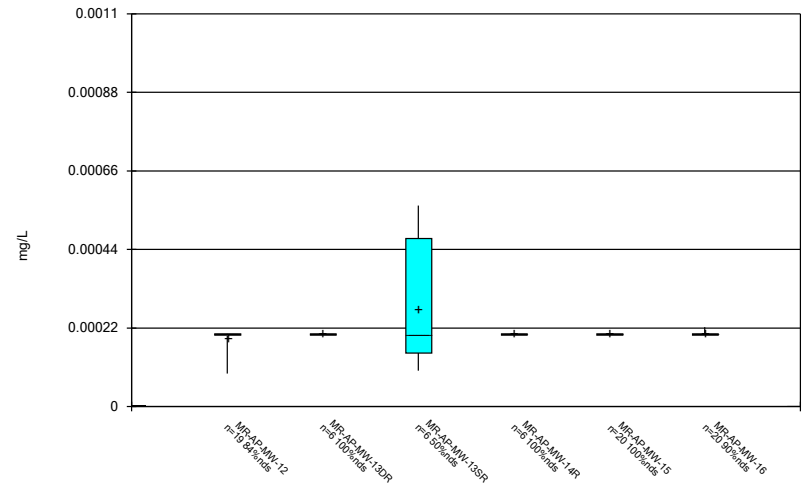
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Box & Whiskers Plot



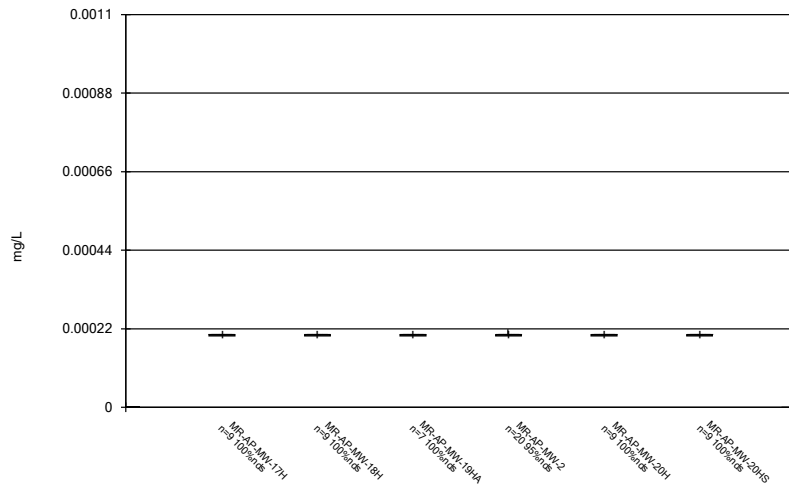
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Box & Whiskers Plot



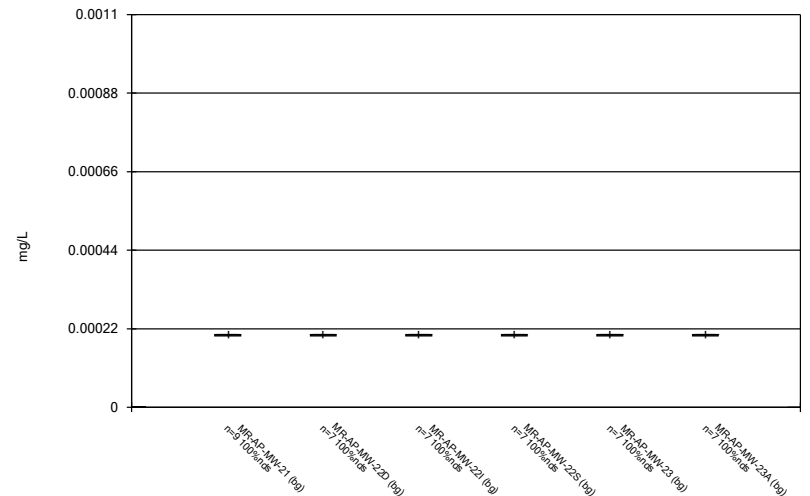
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Box & Whiskers Plot



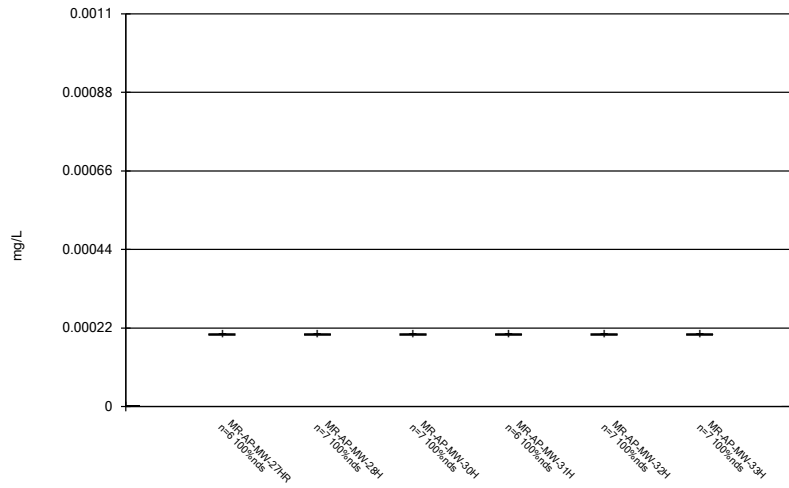
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Box & Whiskers Plot



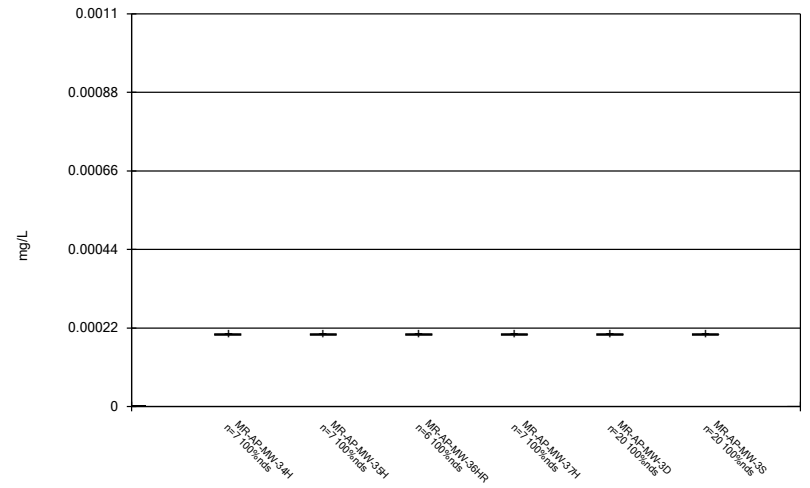
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Box & Whiskers Plot



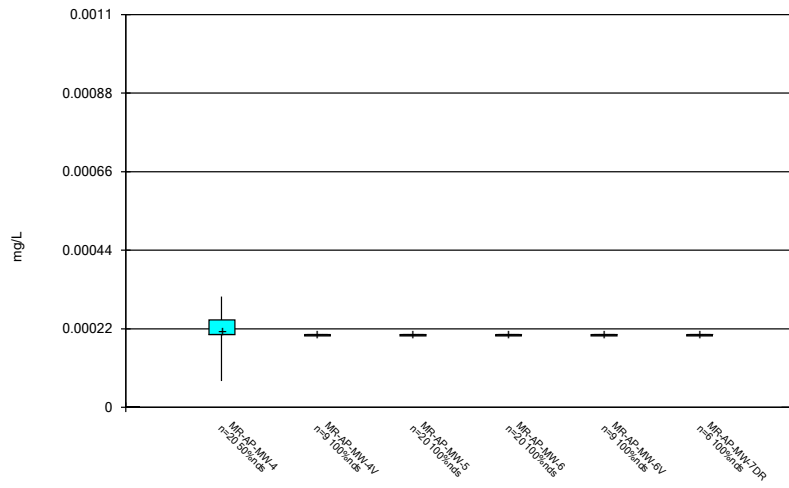
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Box & Whiskers Plot



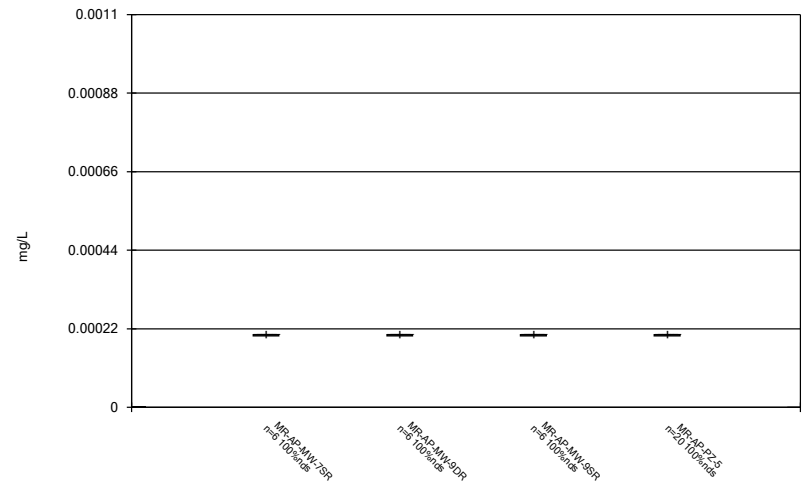
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Box & Whiskers Plot



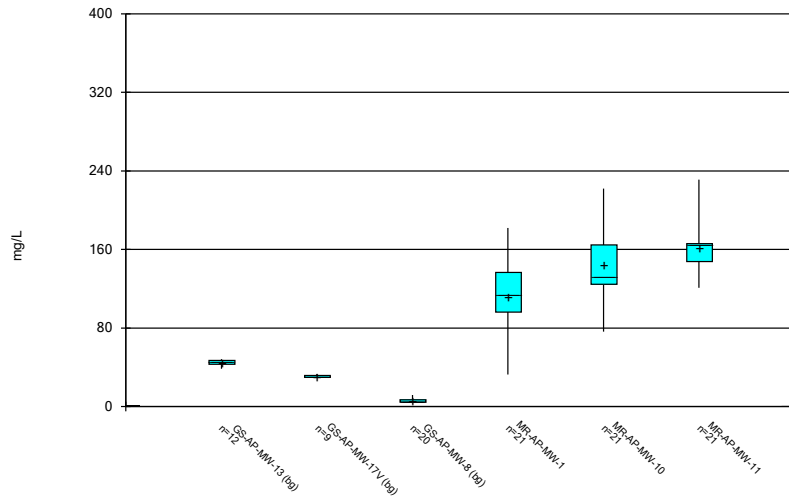
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Box & Whiskers Plot



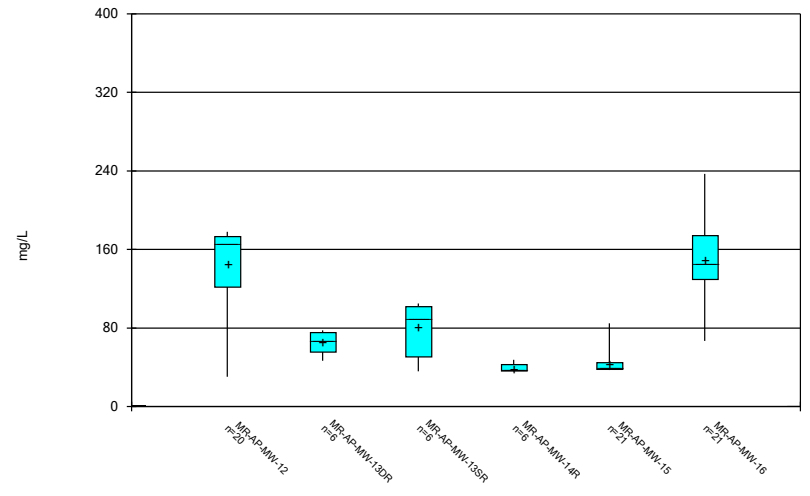
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Box & Whiskers Plot



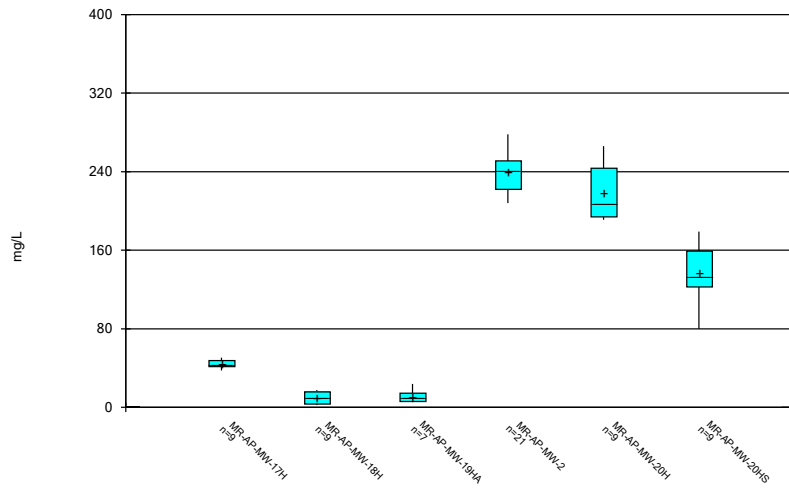
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Box & Whiskers Plot



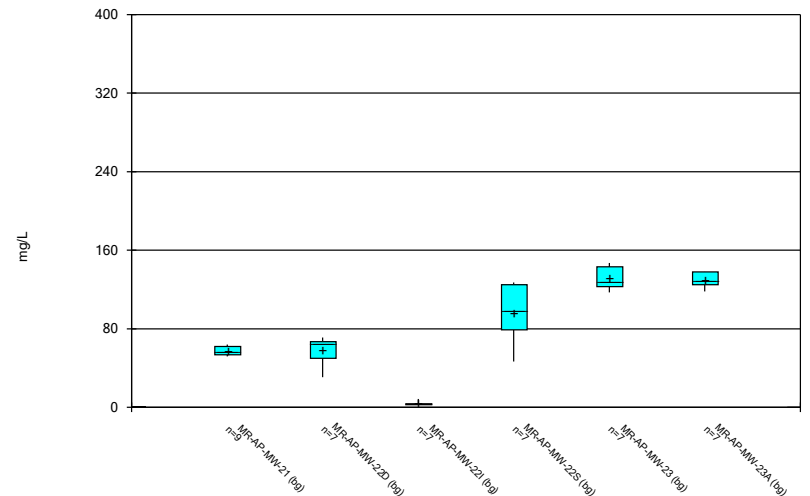
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Box & Whiskers Plot



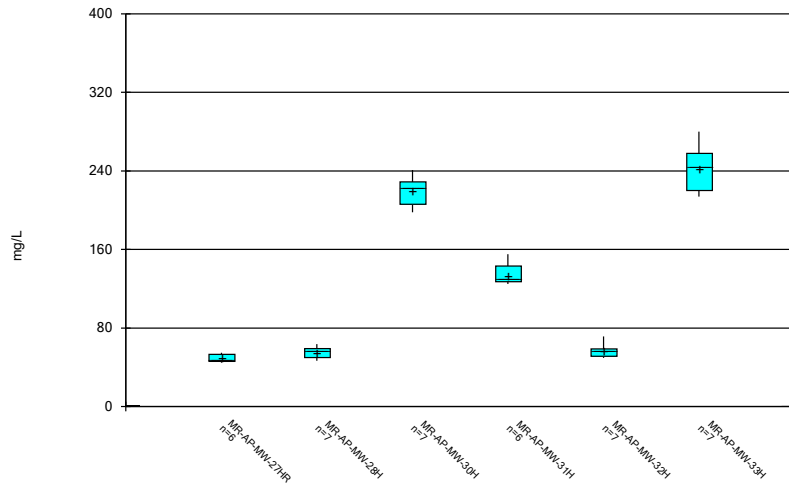
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Box & Whiskers Plot



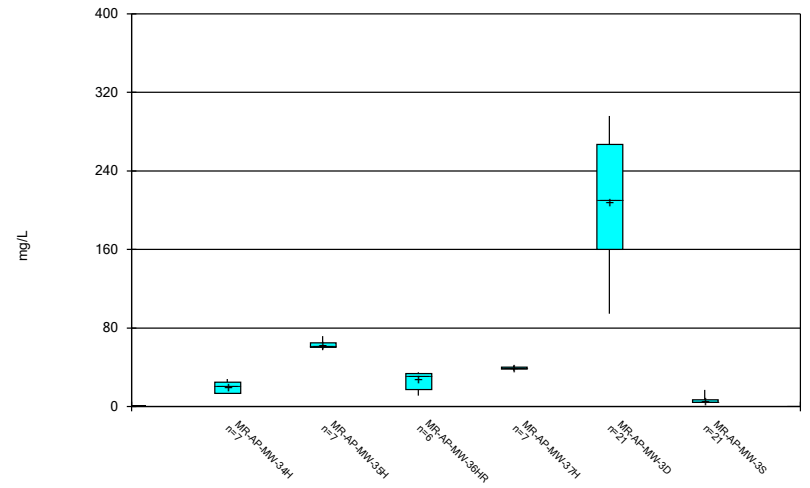
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Box & Whiskers Plot



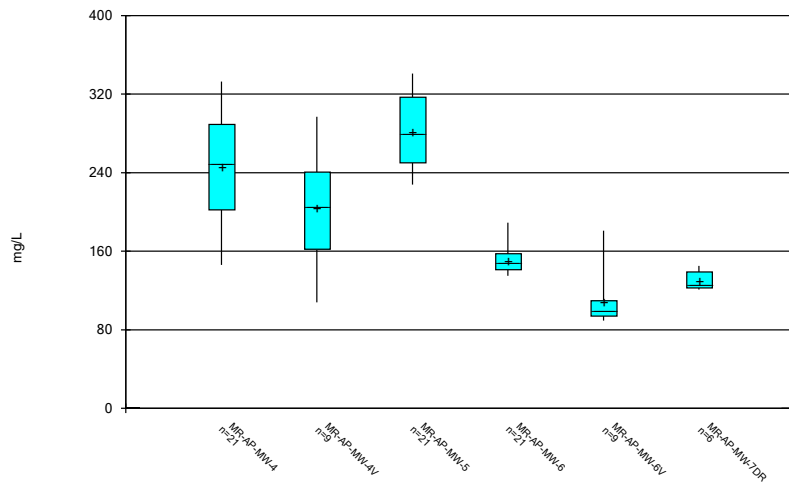
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Box & Whiskers Plot



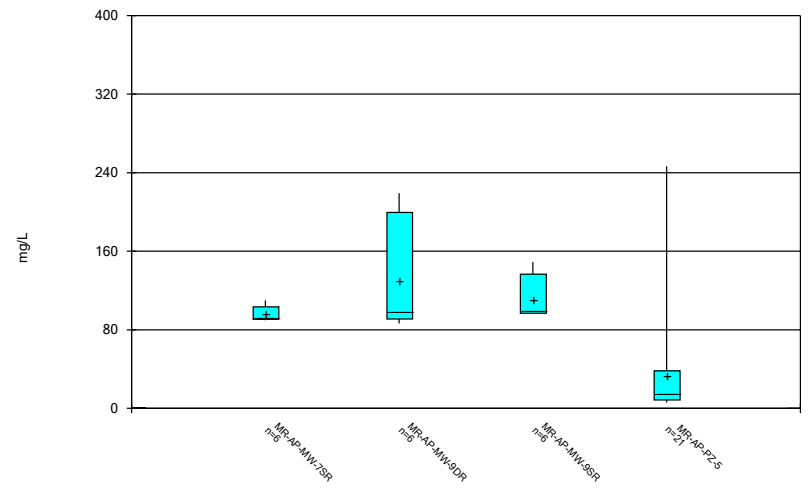
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Box & Whiskers Plot



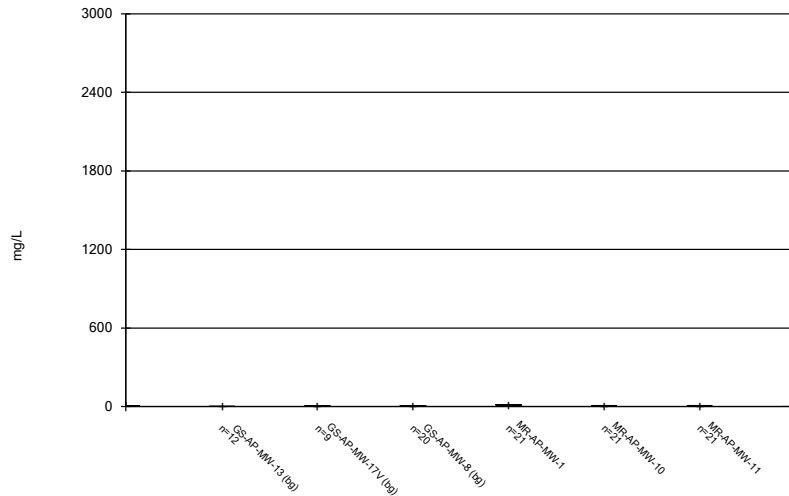
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Box & Whiskers Plot



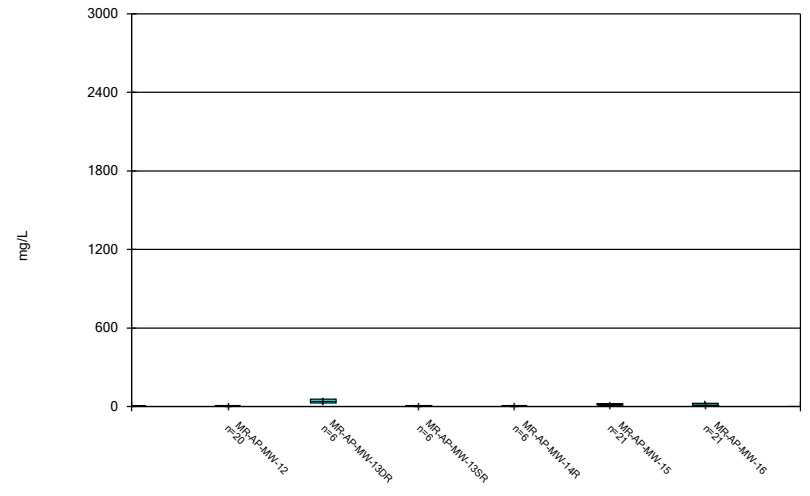
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Box & Whiskers Plot



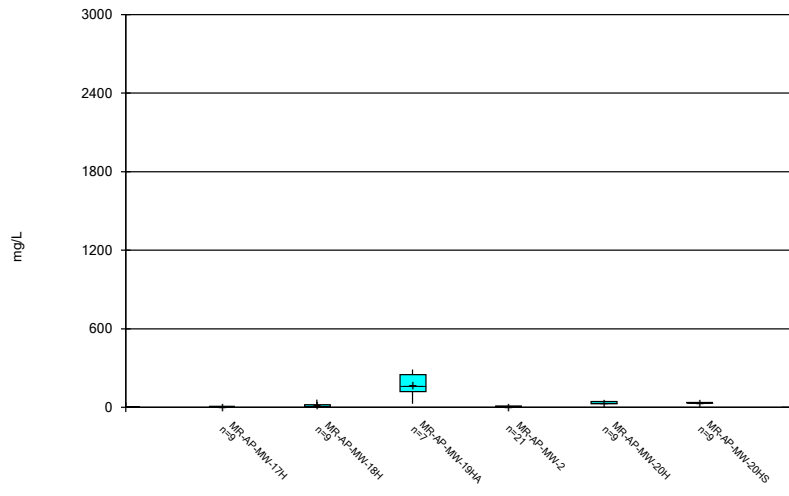
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Box & Whiskers Plot



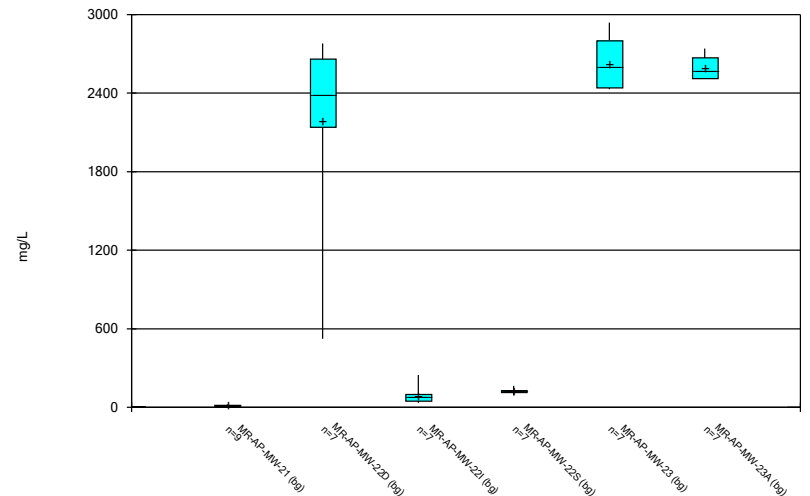
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Box & Whiskers Plot



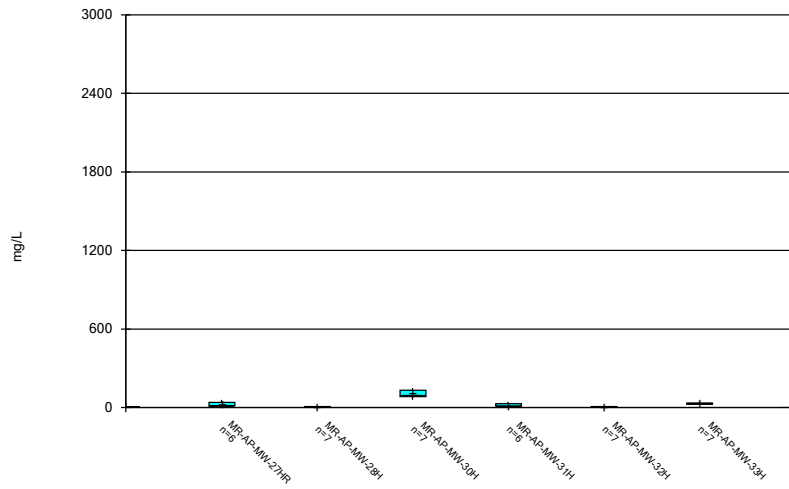
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Box & Whiskers Plot



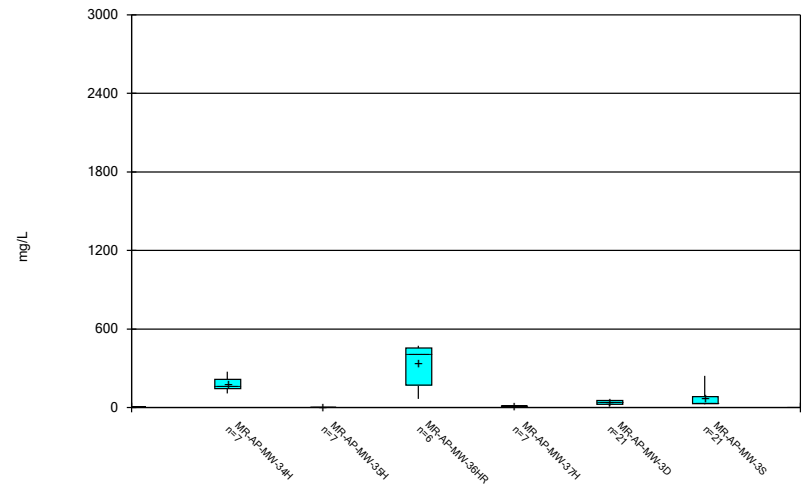
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Box & Whiskers Plot



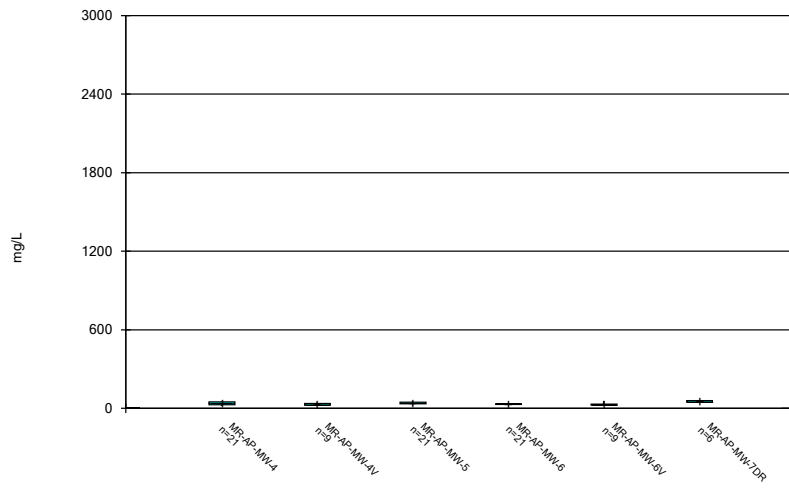
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Box & Whiskers Plot



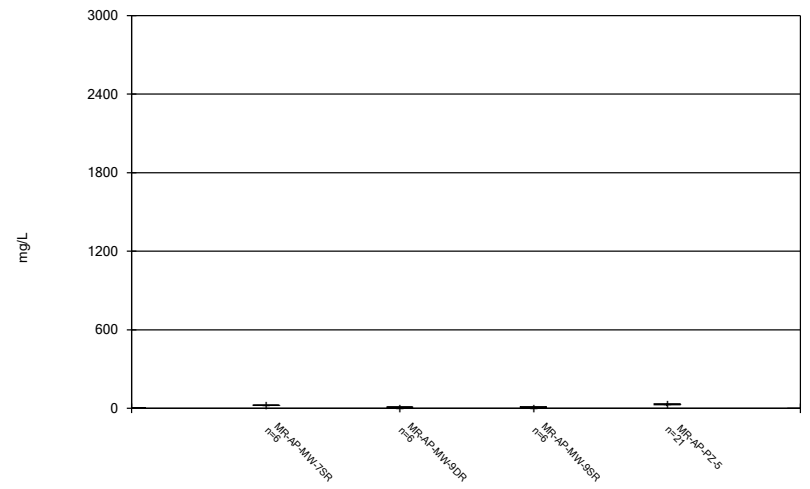
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Box & Whiskers Plot



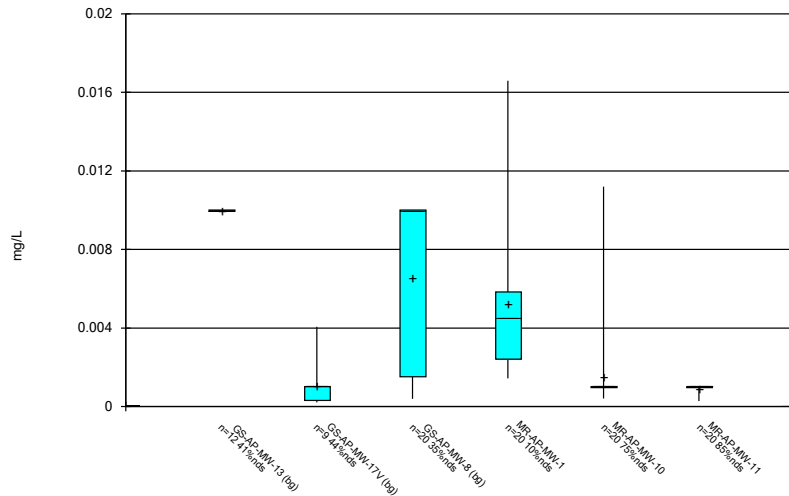
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Box & Whiskers Plot



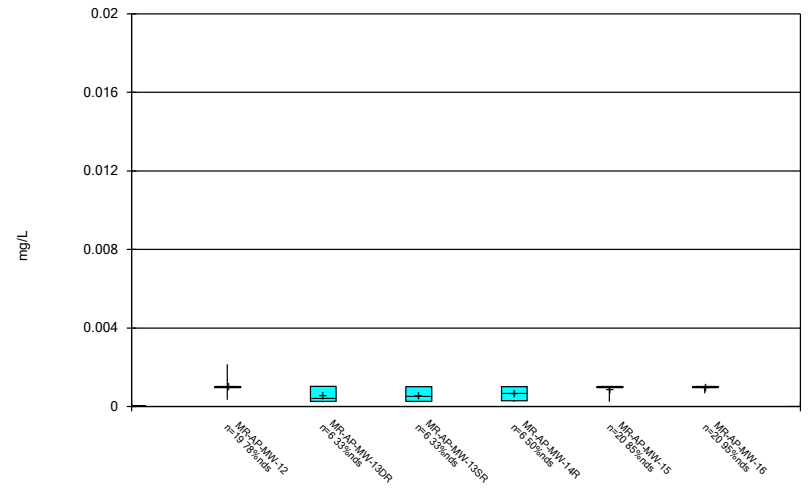
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Box & Whiskers Plot



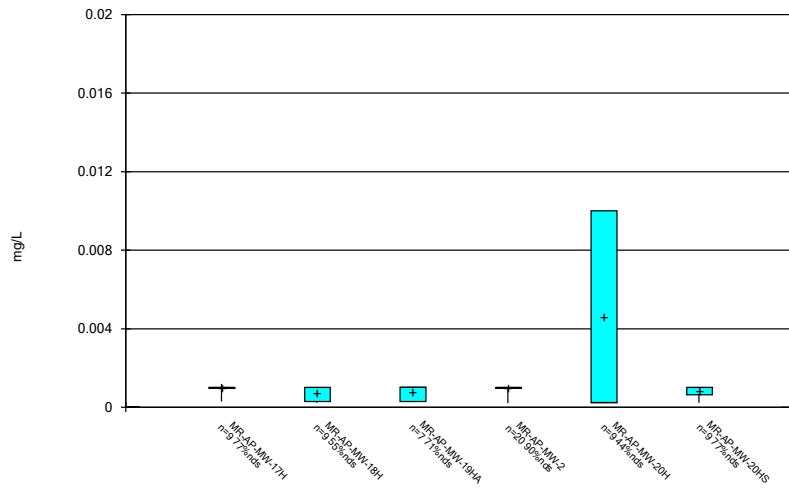
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Box & Whiskers Plot



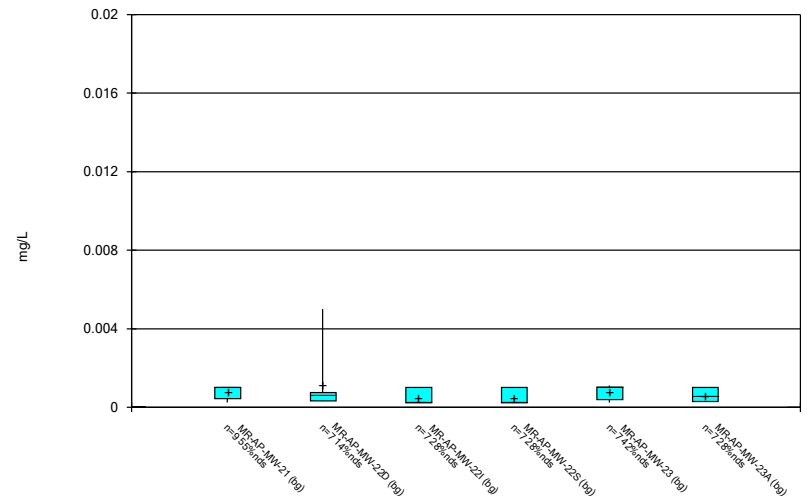
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Box & Whiskers Plot



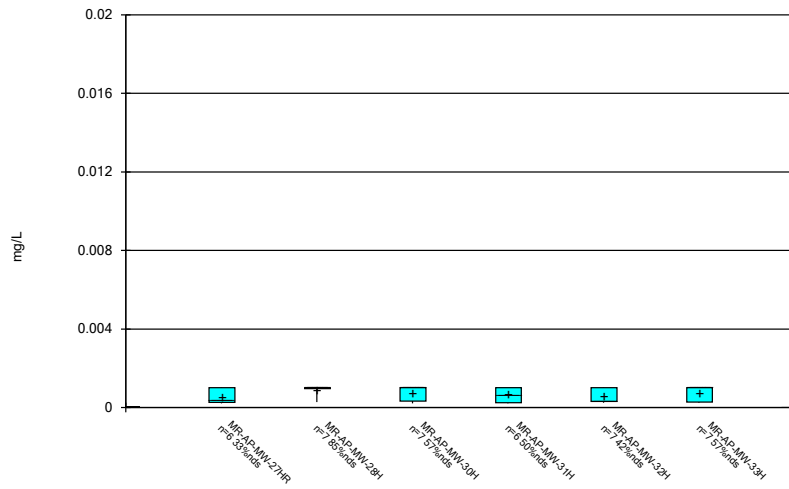
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Box & Whiskers Plot



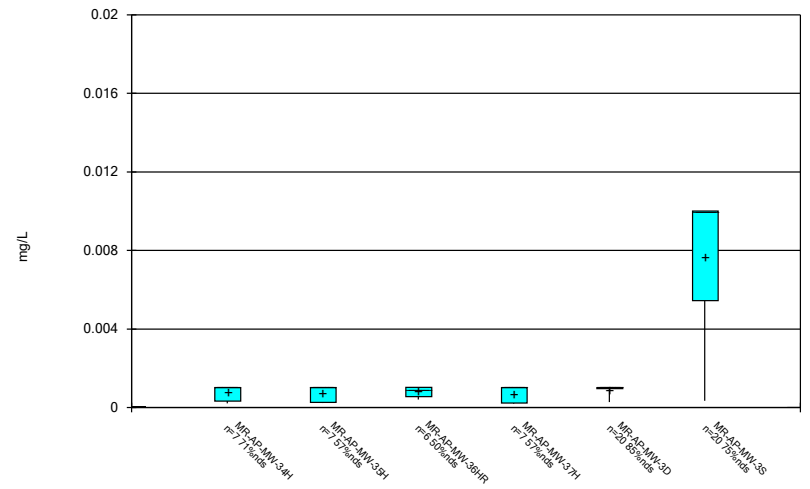
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



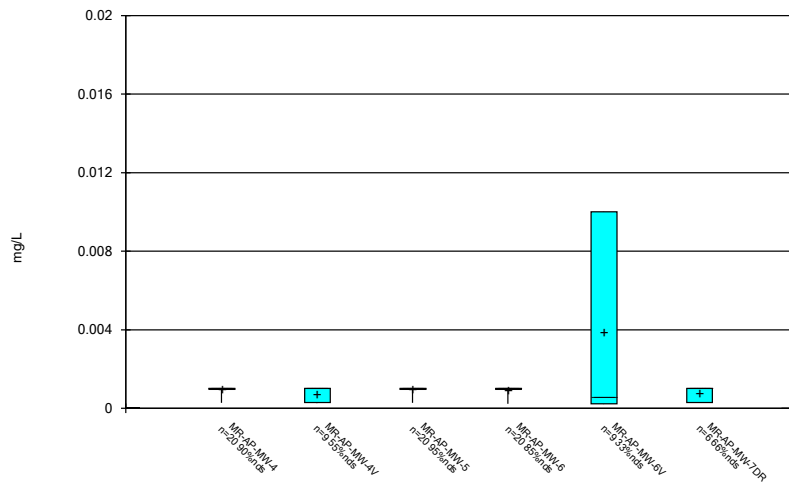
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Box & Whiskers Plot



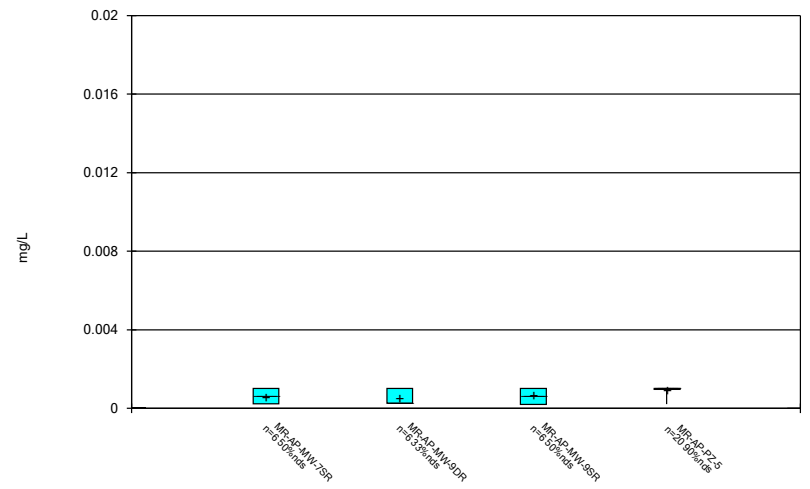
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Box & Whiskers Plot



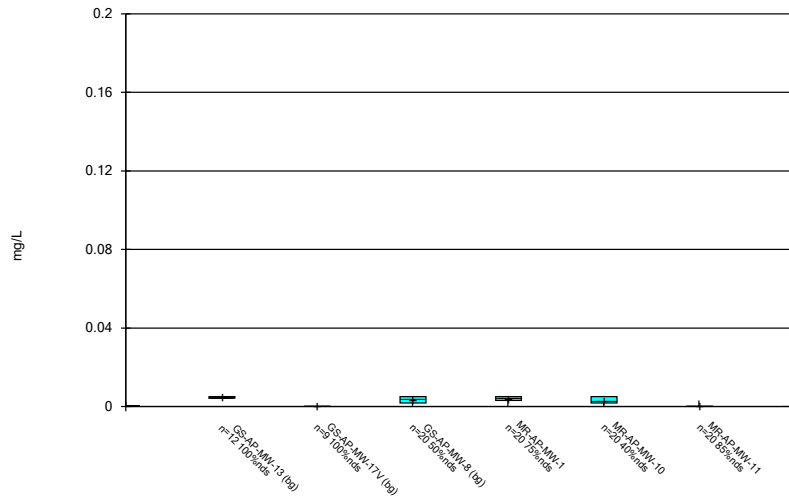
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Box & Whiskers Plot



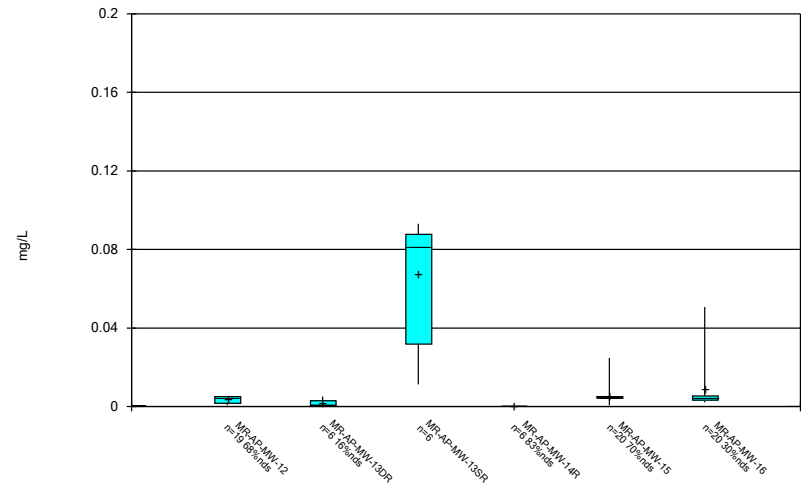
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Box & Whiskers Plot



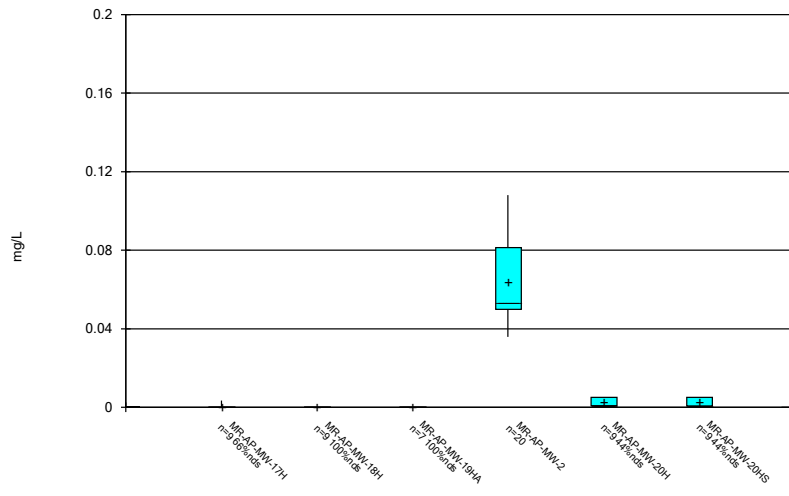
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Box & Whiskers Plot



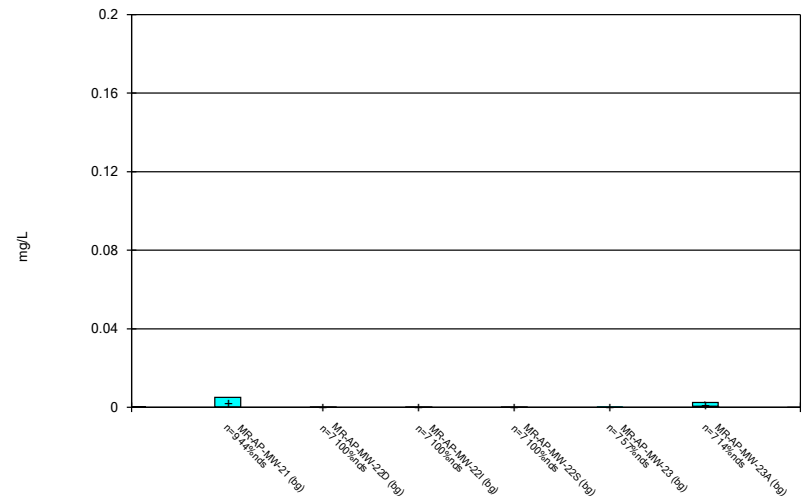
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Box & Whiskers Plot



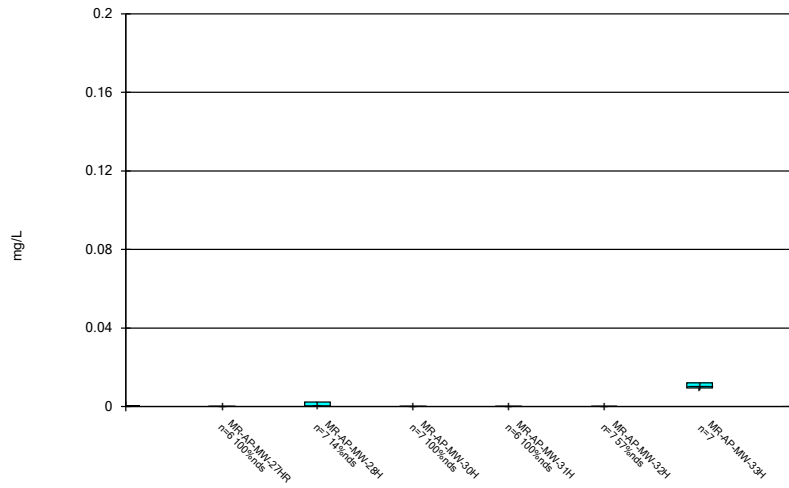
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Box & Whiskers Plot



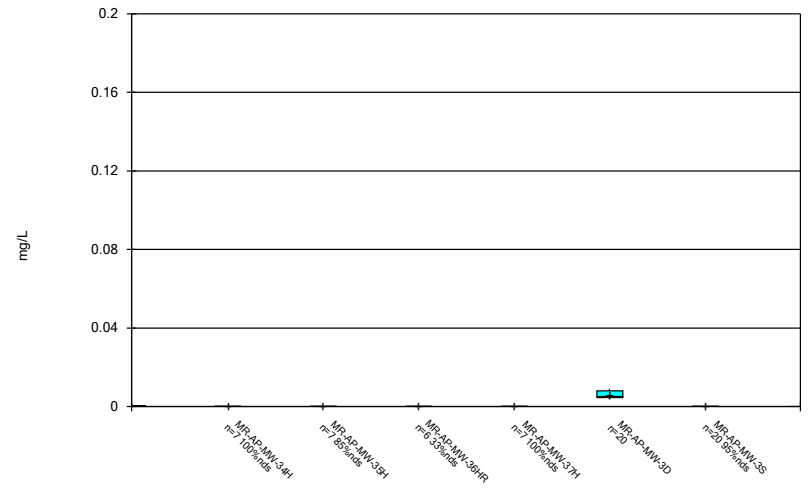
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Box & Whiskers Plot



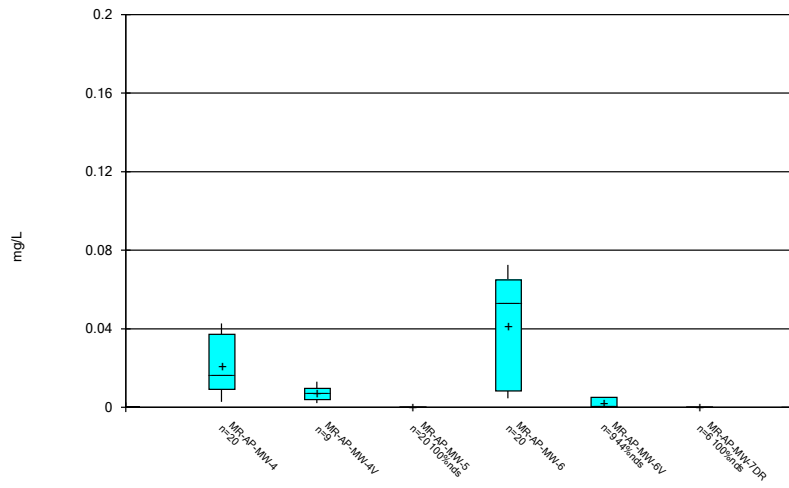
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Box & Whiskers Plot



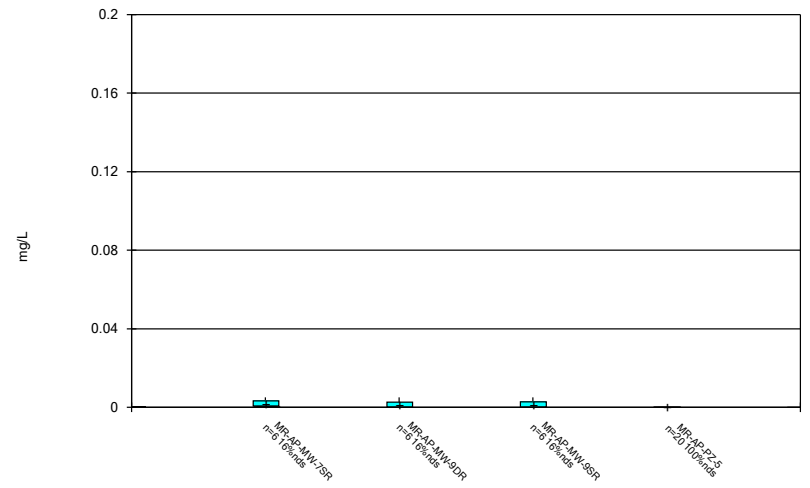
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Box & Whiskers Plot



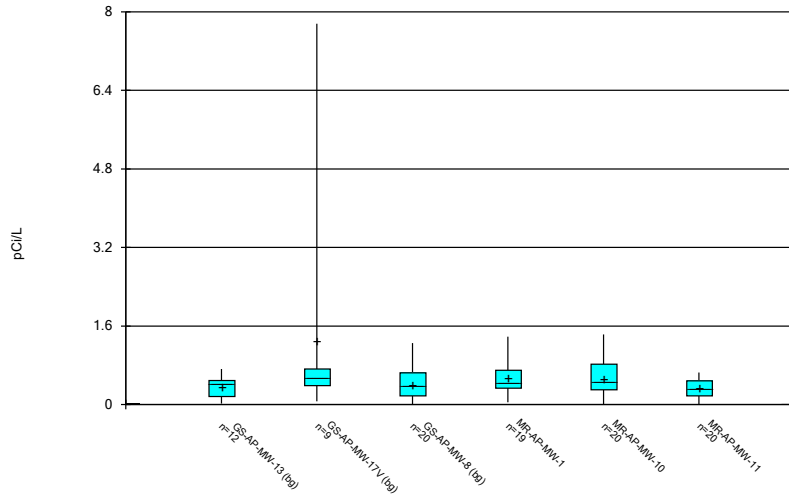
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Box & Whiskers Plot



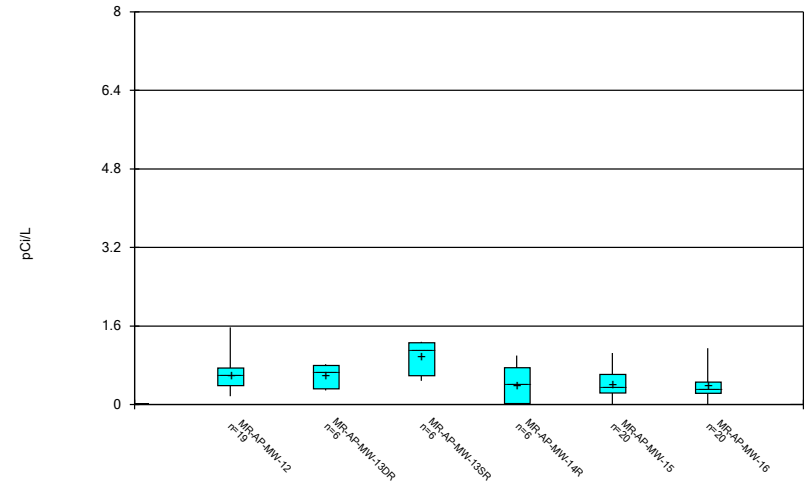
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Box & Whiskers Plot



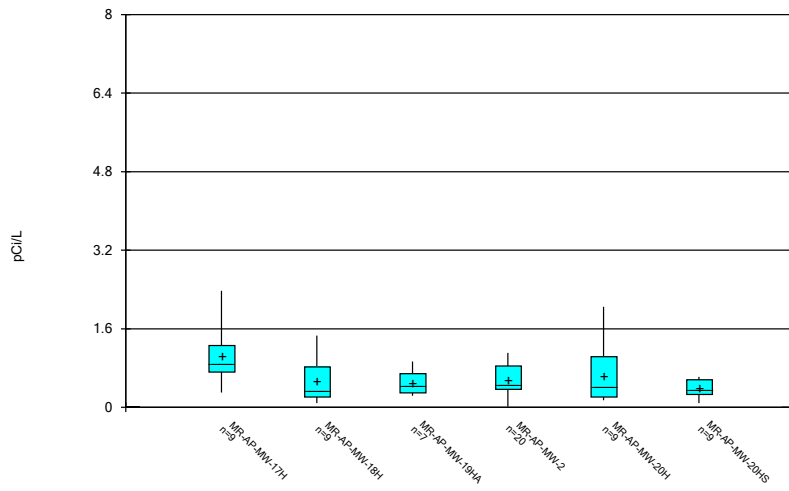
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Box & Whiskers Plot



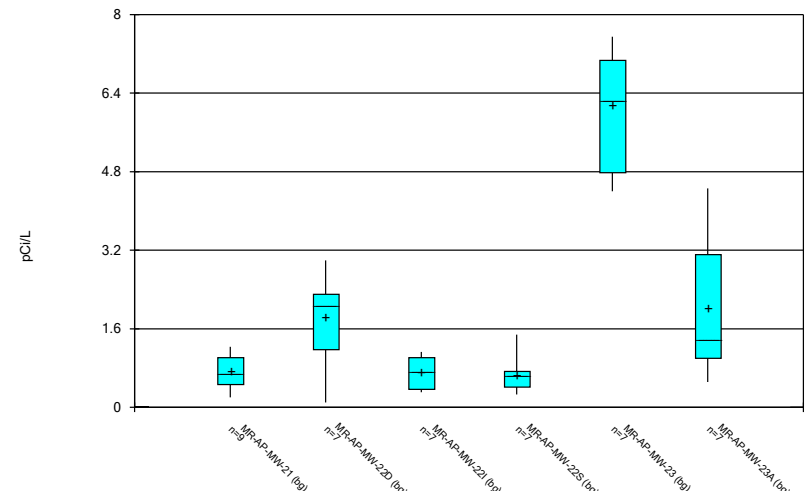
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Box & Whiskers Plot



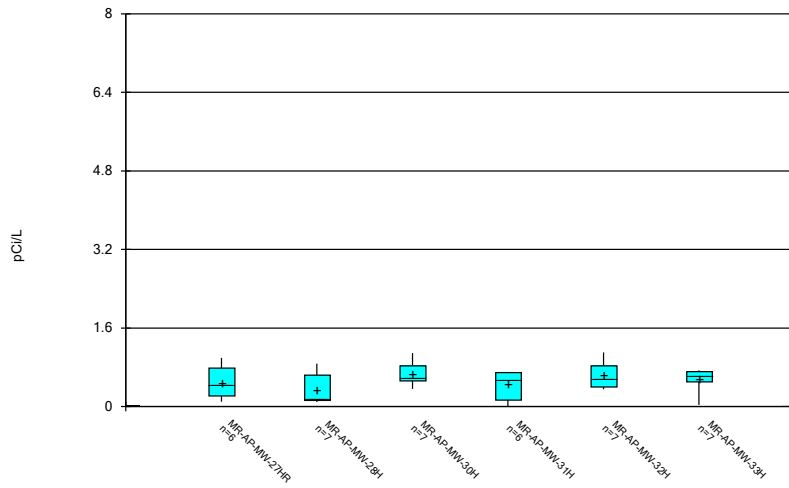
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Box & Whiskers Plot



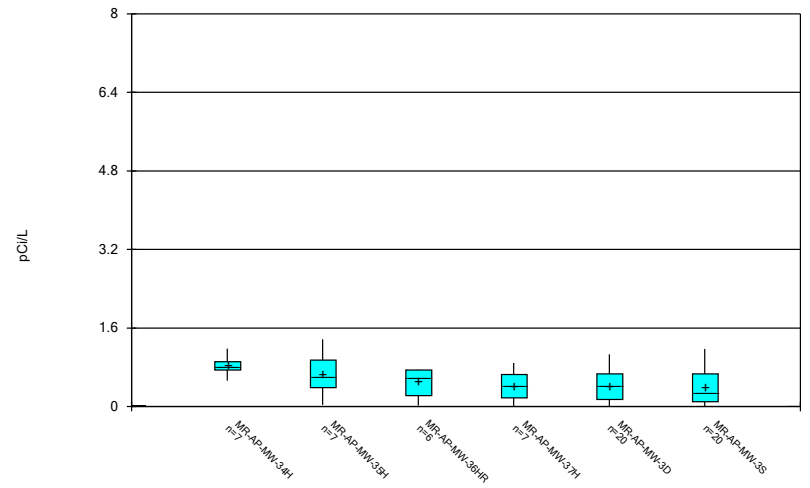
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Box & Whiskers Plot



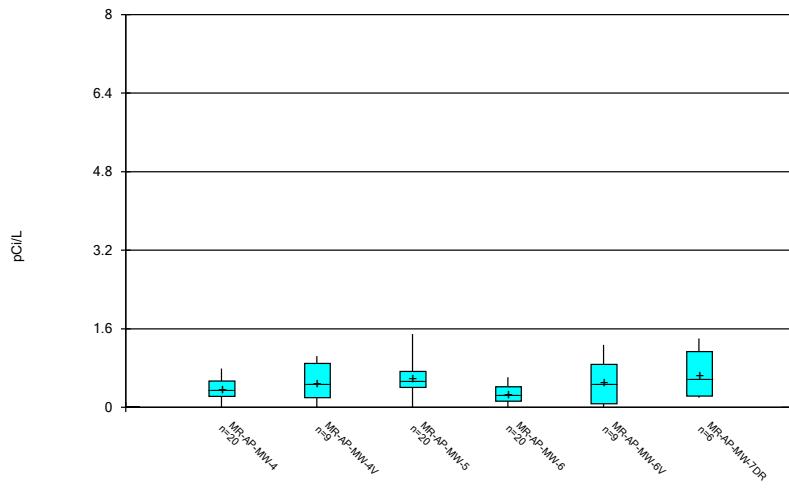
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Box & Whiskers Plot



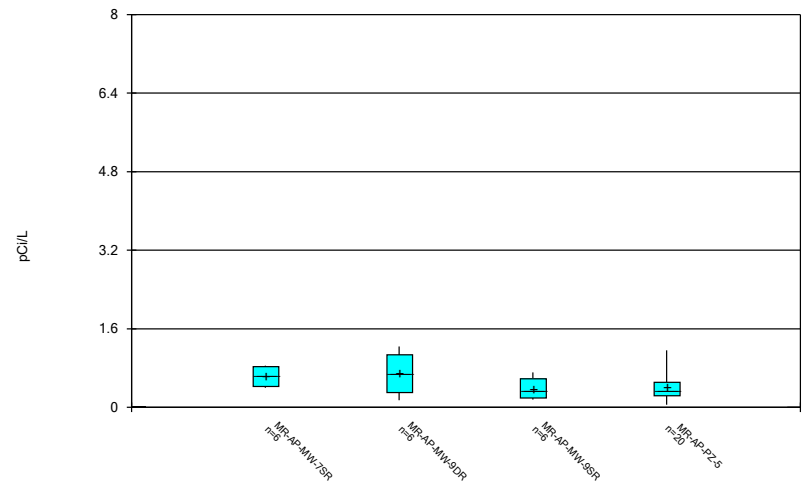
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Box & Whiskers Plot



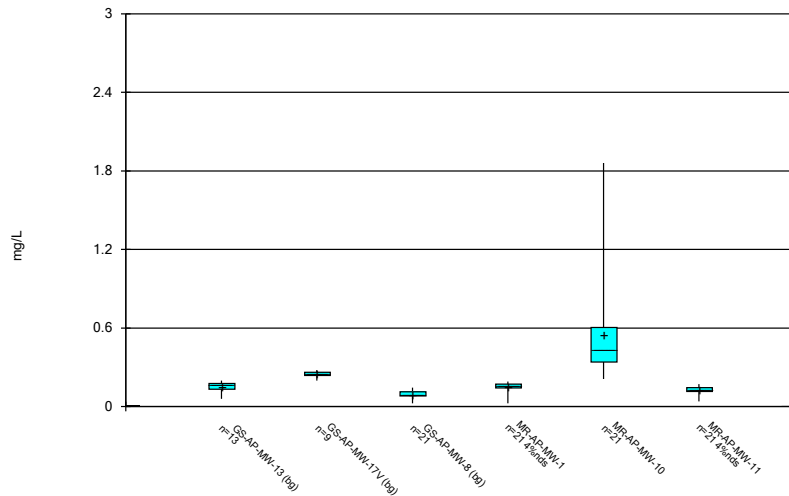
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Box & Whiskers Plot



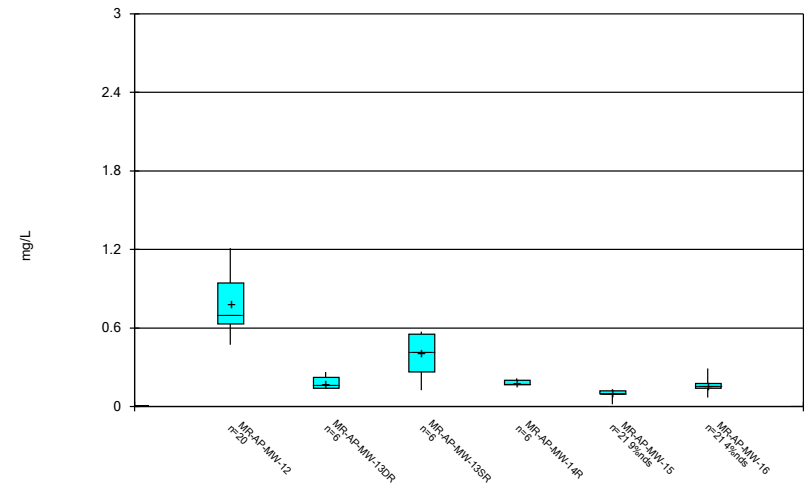
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Box & Whiskers Plot



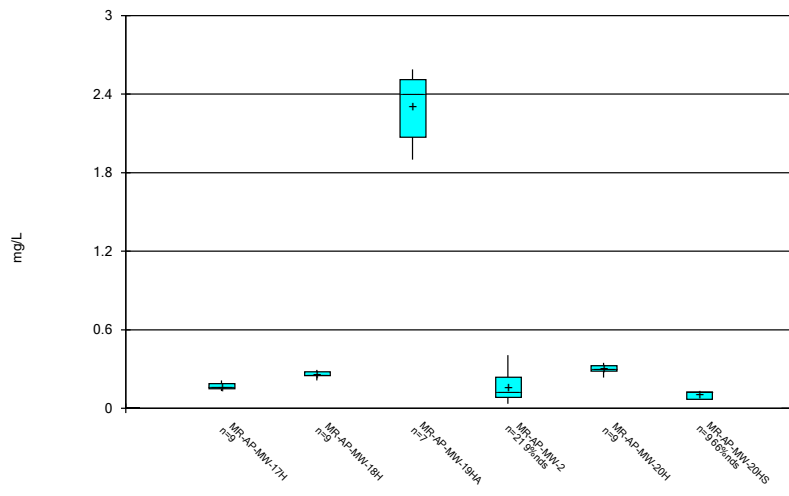
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Box & Whiskers Plot



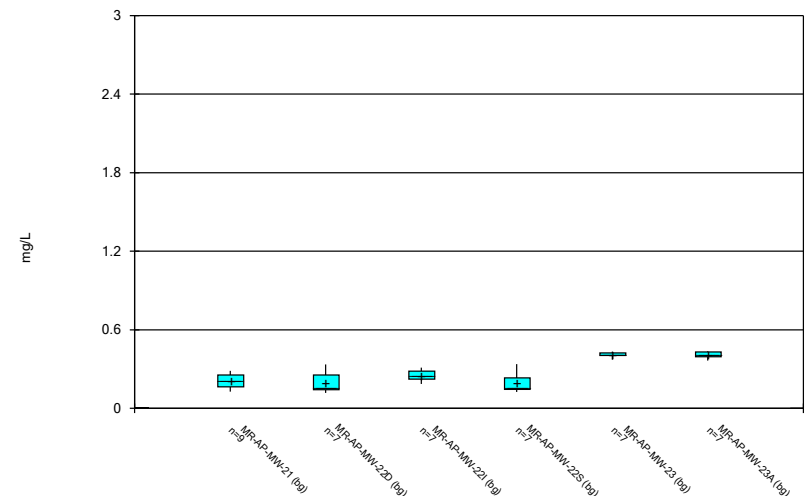
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Box & Whiskers Plot



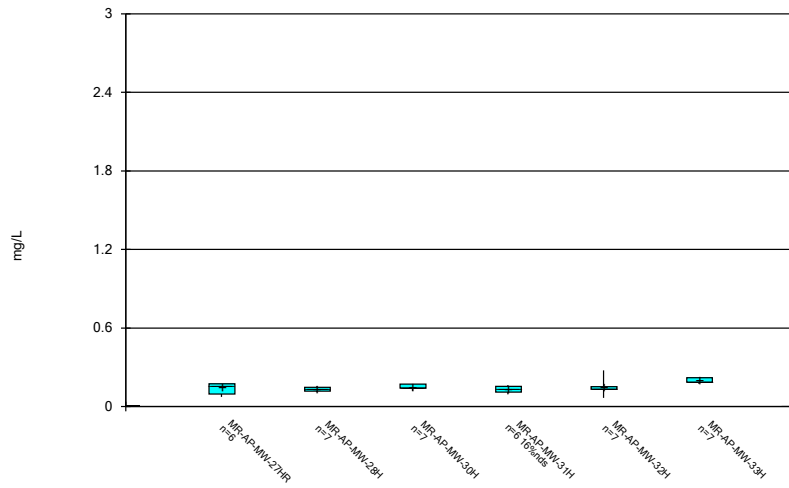
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Box & Whiskers Plot



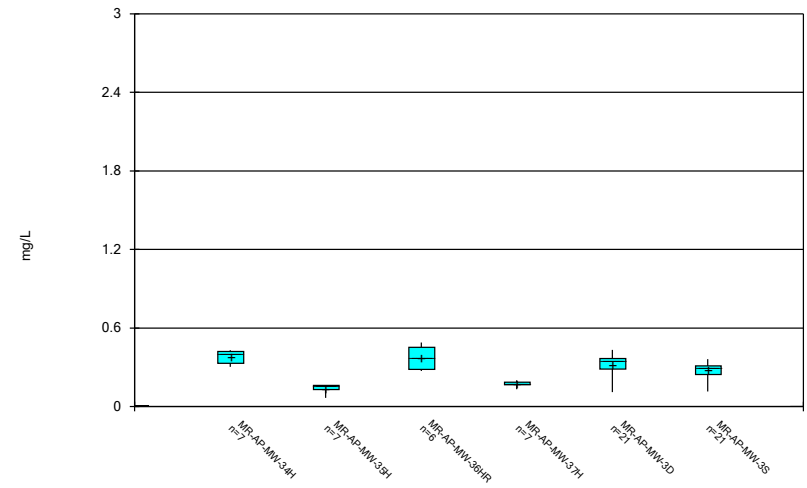
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Box & Whiskers Plot



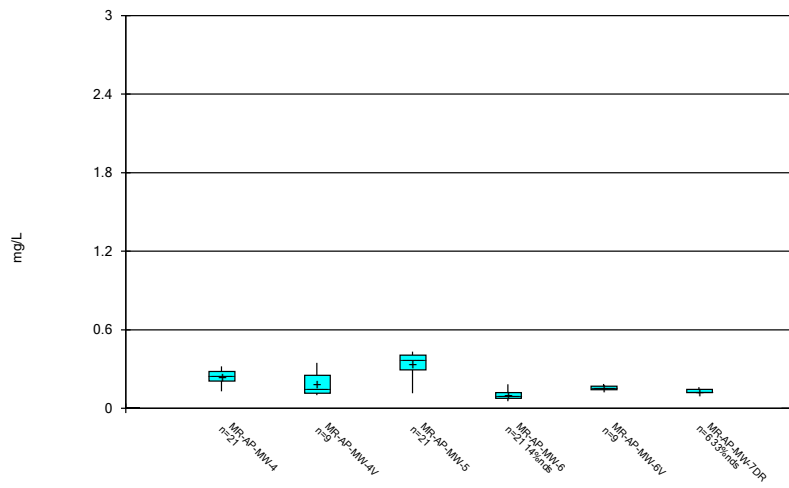
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Box & Whiskers Plot



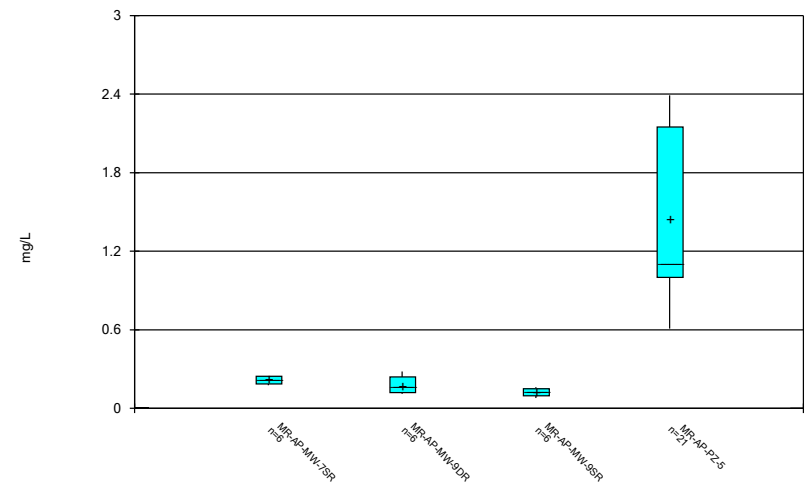
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Box & Whiskers Plot



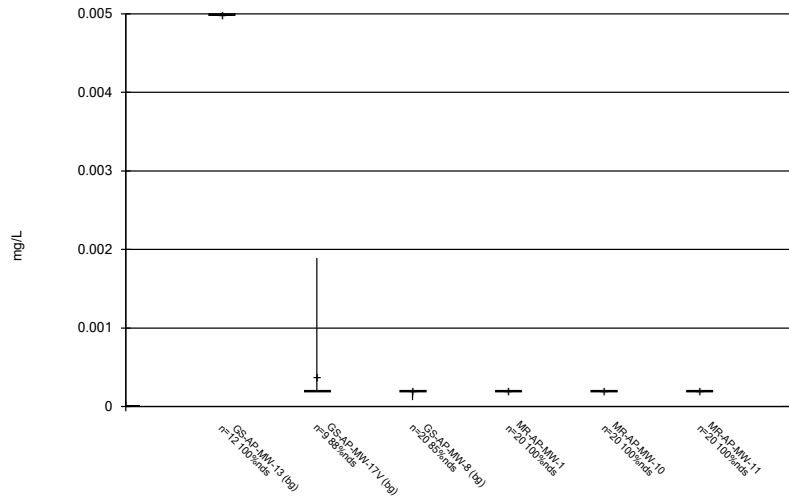
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Box & Whiskers Plot



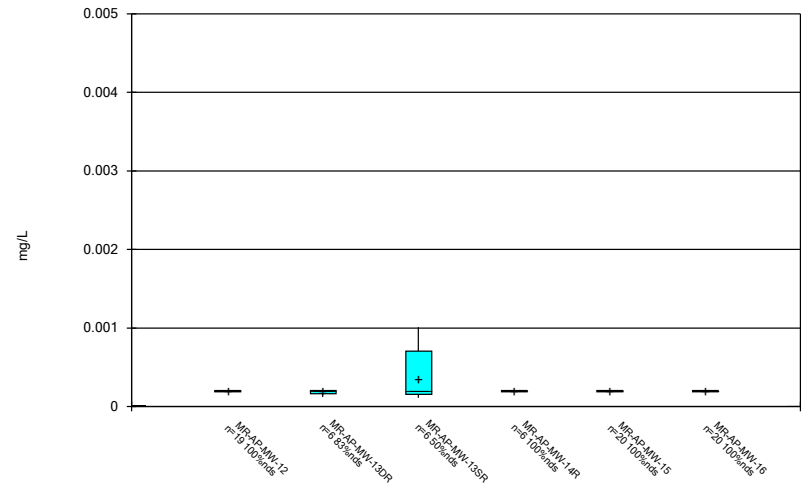
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Box & Whiskers Plot



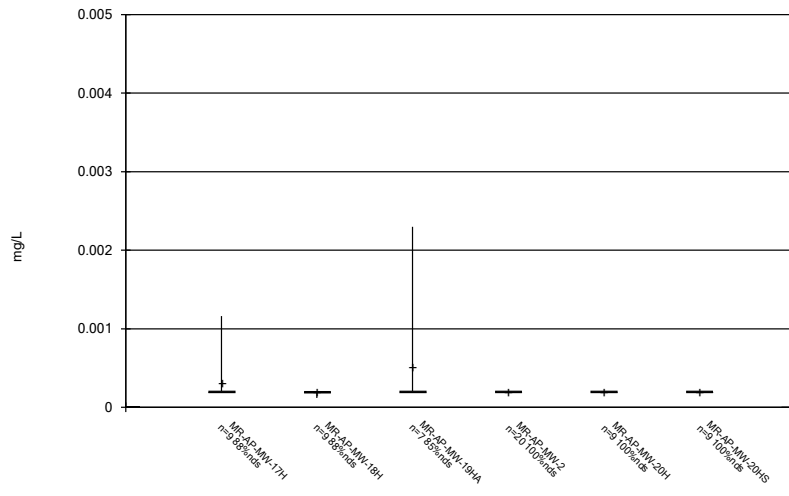
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Box & Whiskers Plot



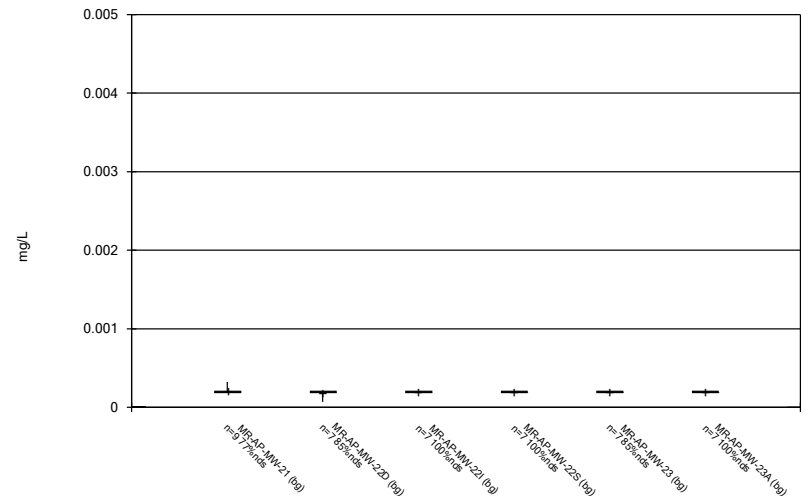
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Box & Whiskers Plot



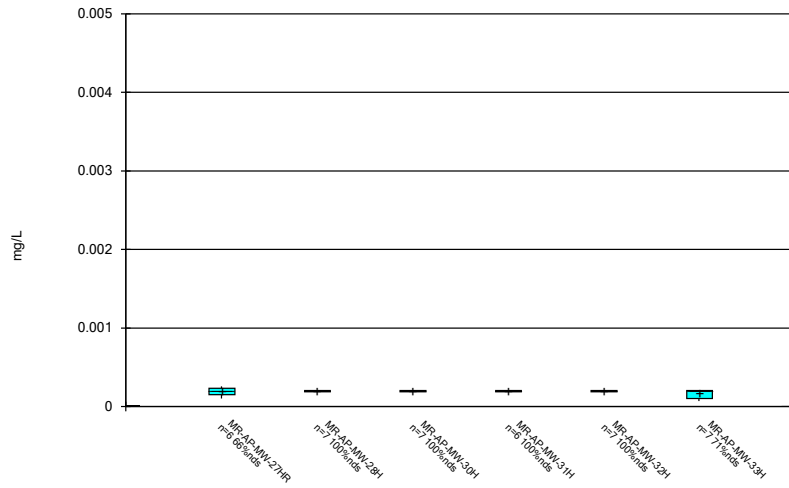
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Box & Whiskers Plot



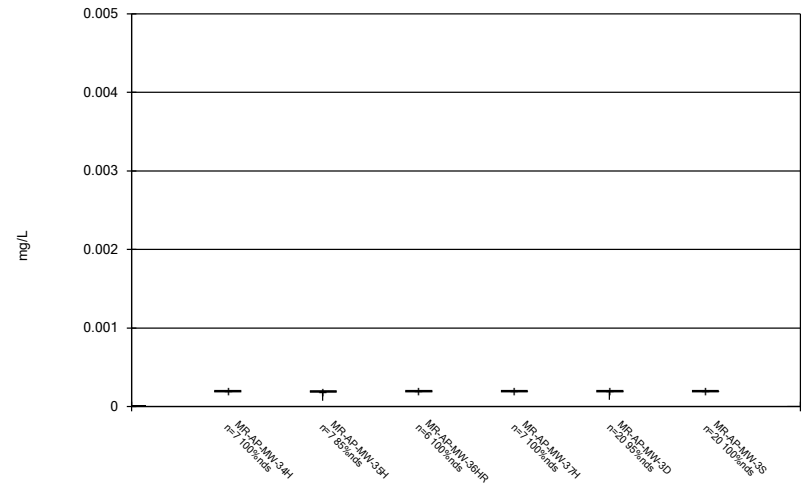
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Box & Whiskers Plot



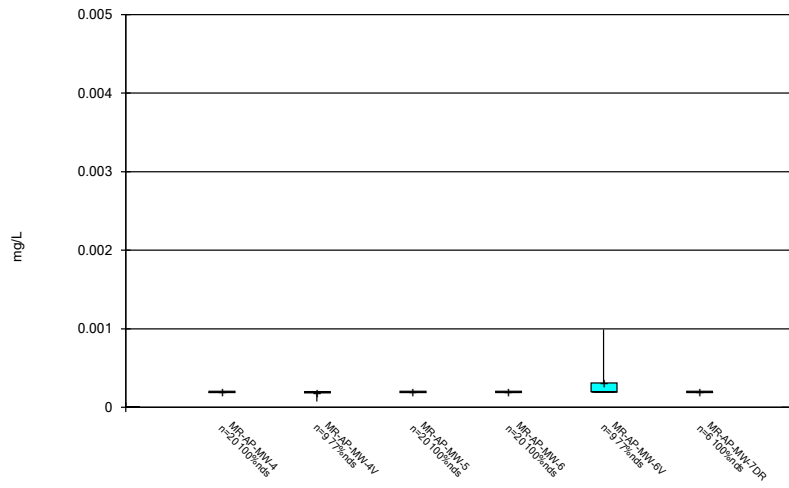
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Box & Whiskers Plot



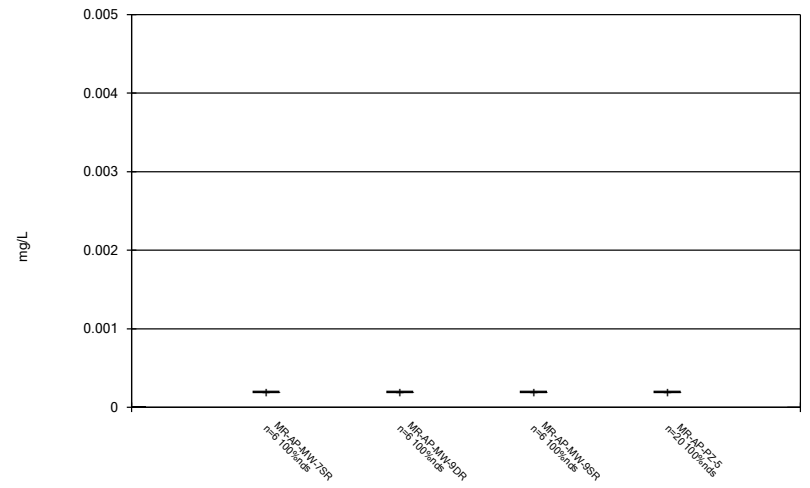
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Box & Whiskers Plot



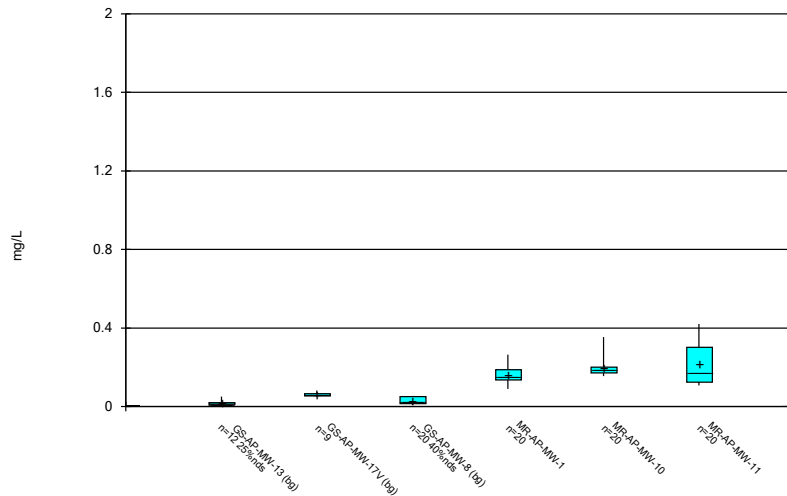
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Box & Whiskers Plot



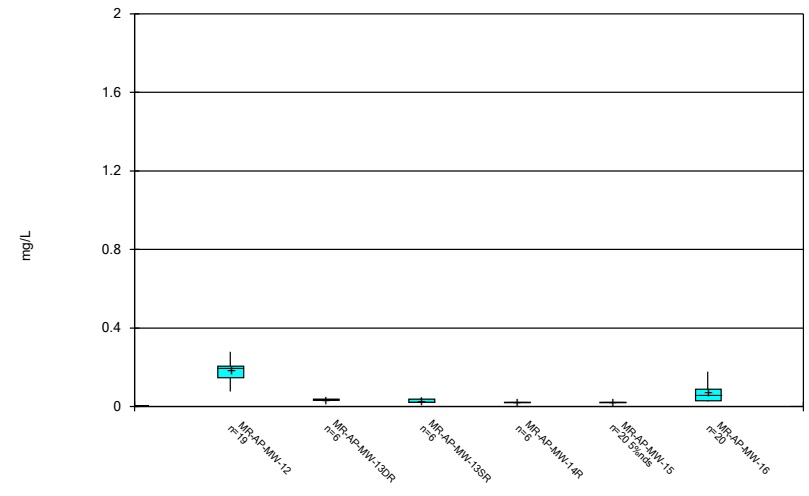
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Box & Whiskers Plot



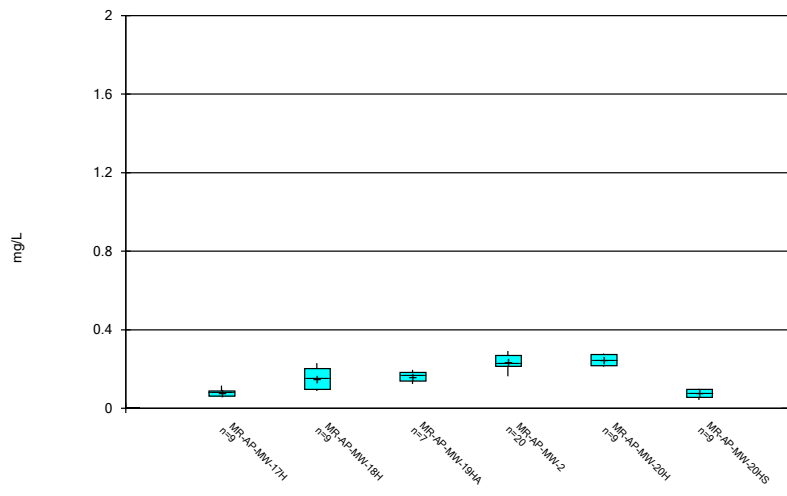
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Box & Whiskers Plot



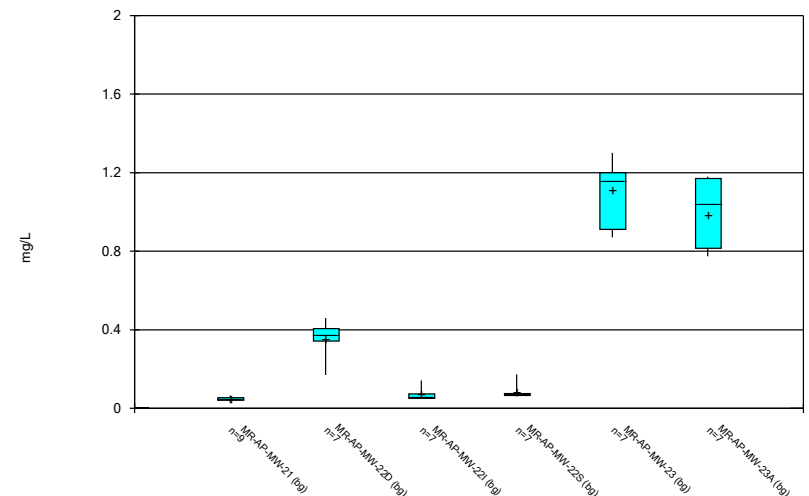
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Box & Whiskers Plot



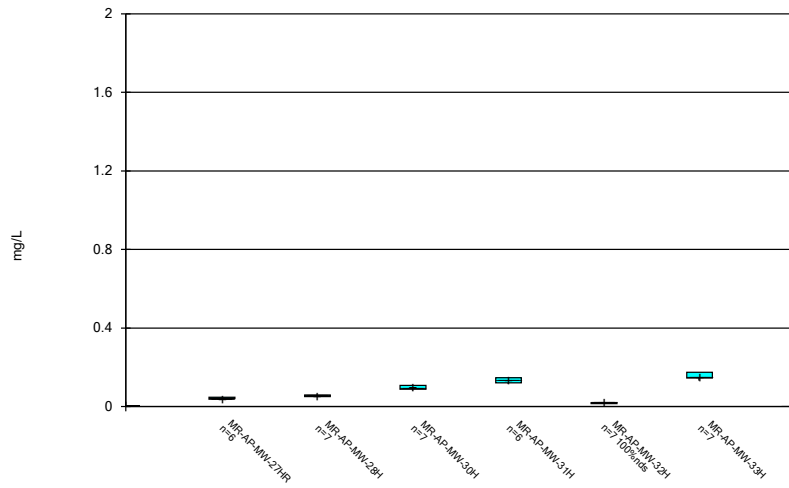
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Box & Whiskers Plot



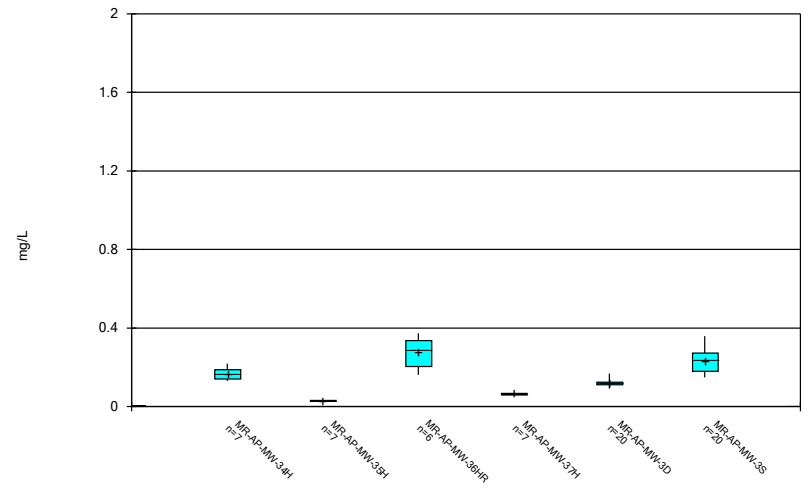
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Box & Whiskers Plot



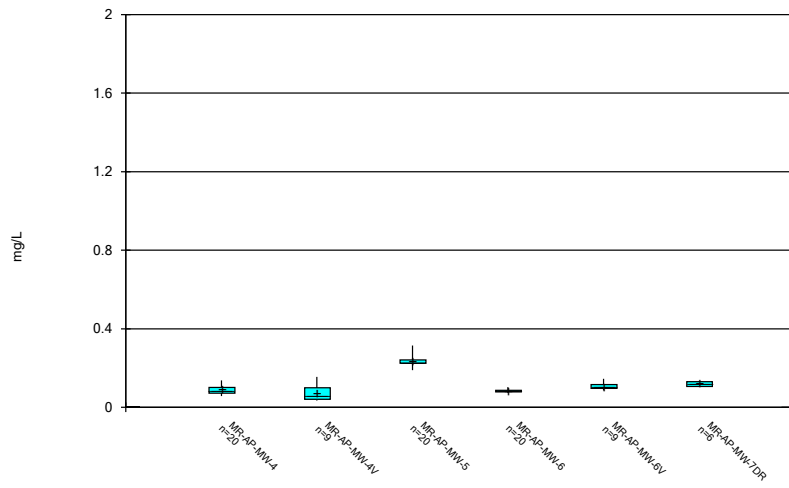
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Box & Whiskers Plot



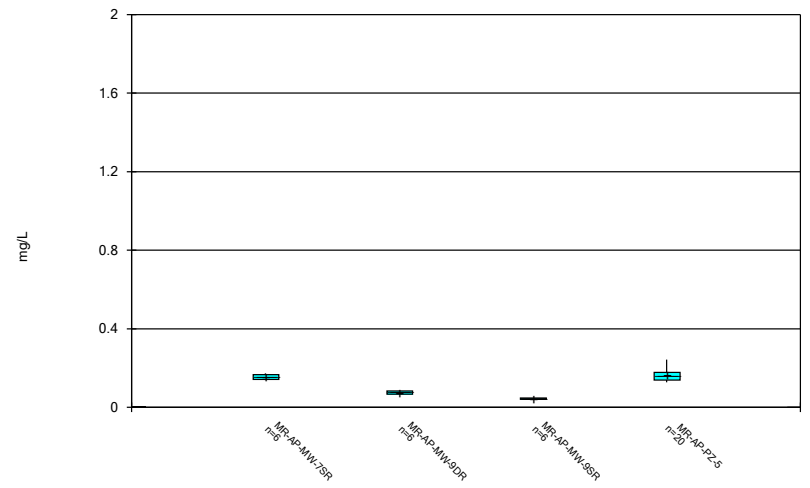
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Box & Whiskers Plot



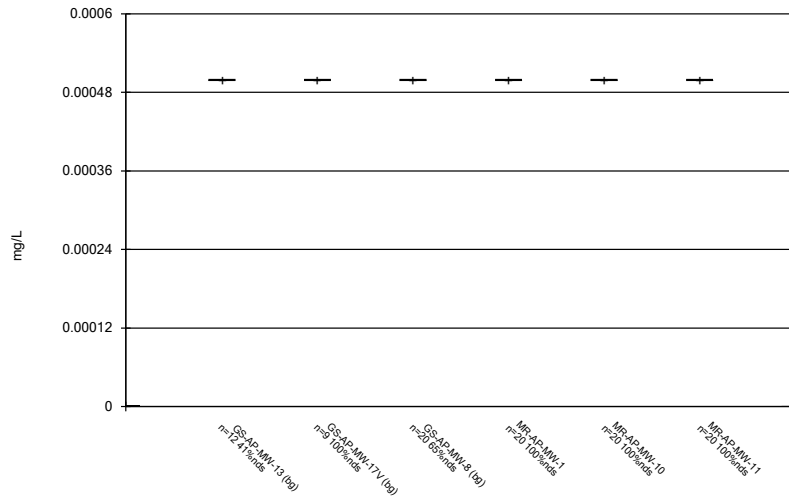
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Box & Whiskers Plot



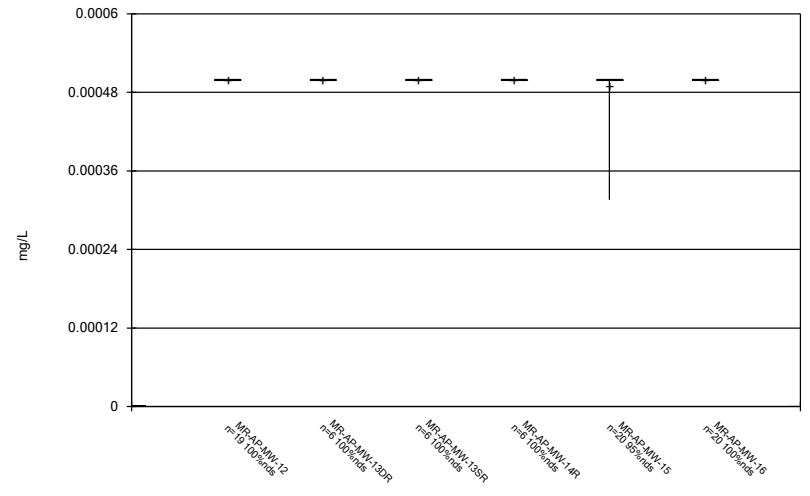
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Box & Whiskers Plot



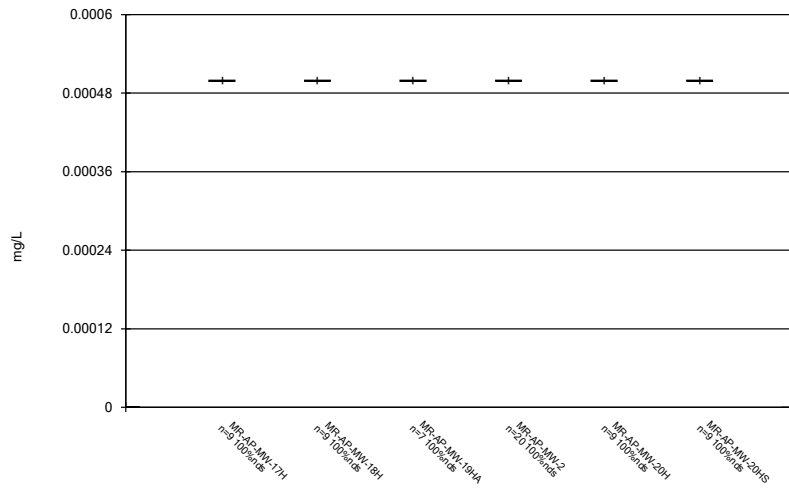
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Box & Whiskers Plot



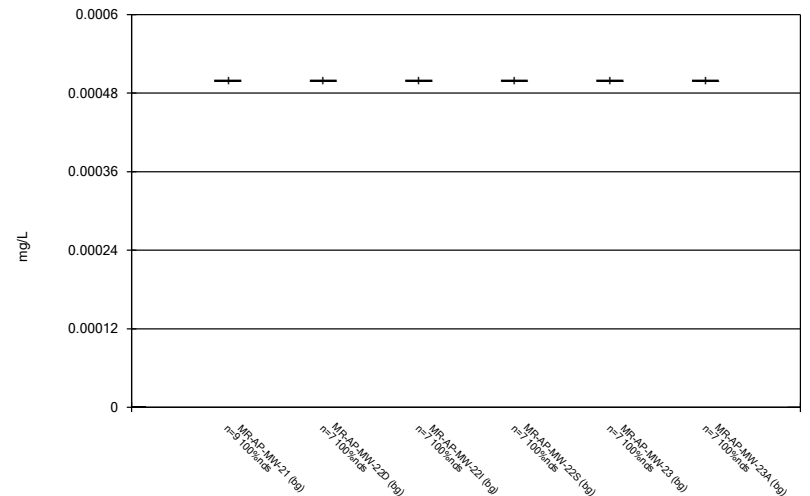
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Box & Whiskers Plot



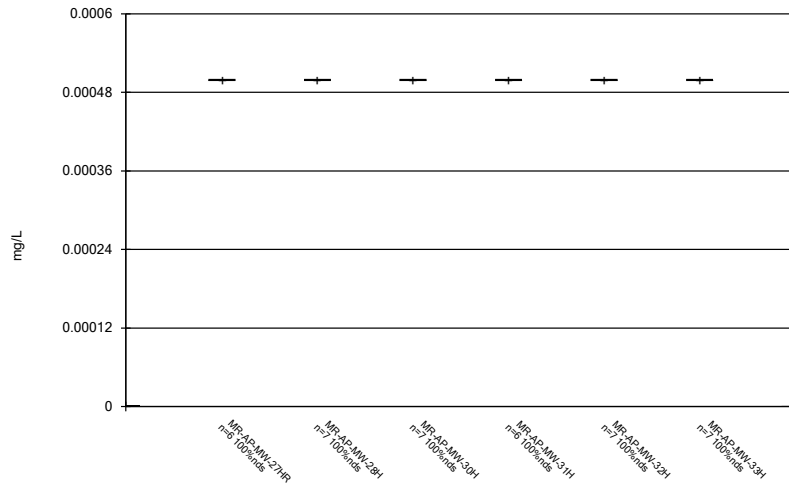
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Box & Whiskers Plot



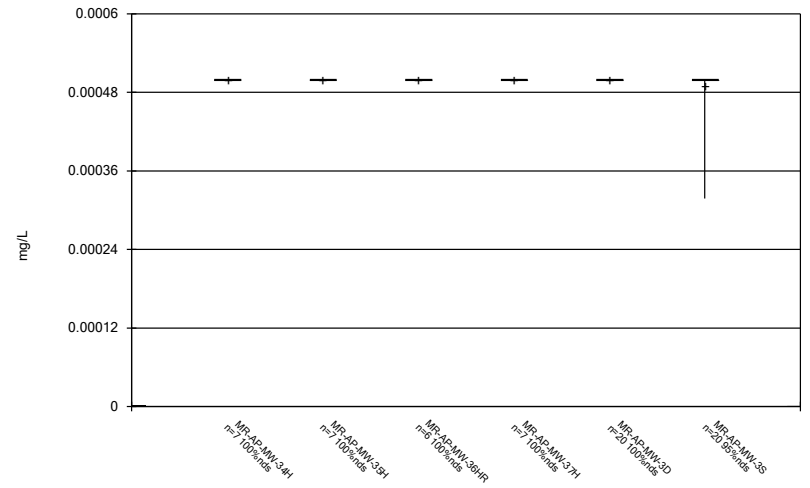
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Box & Whiskers Plot



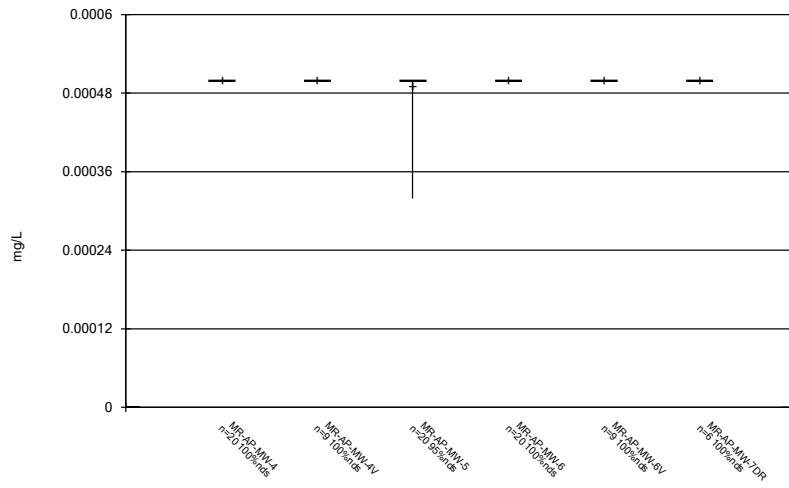
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Box & Whiskers Plot



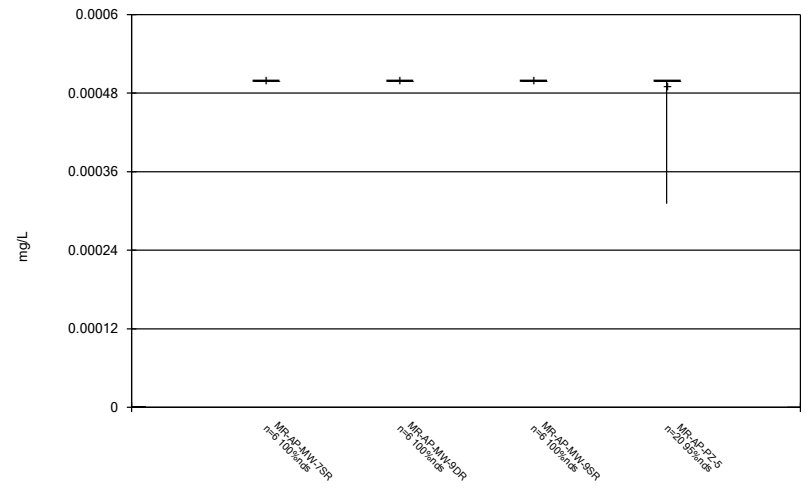
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Box & Whiskers Plot



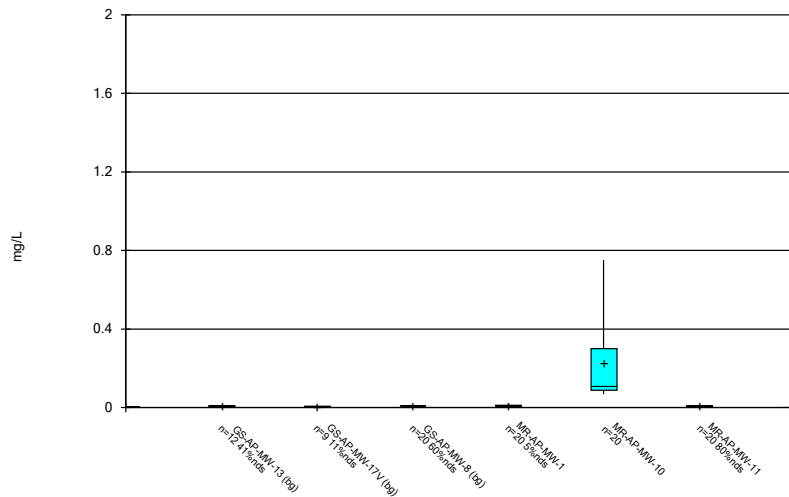
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Box & Whiskers Plot



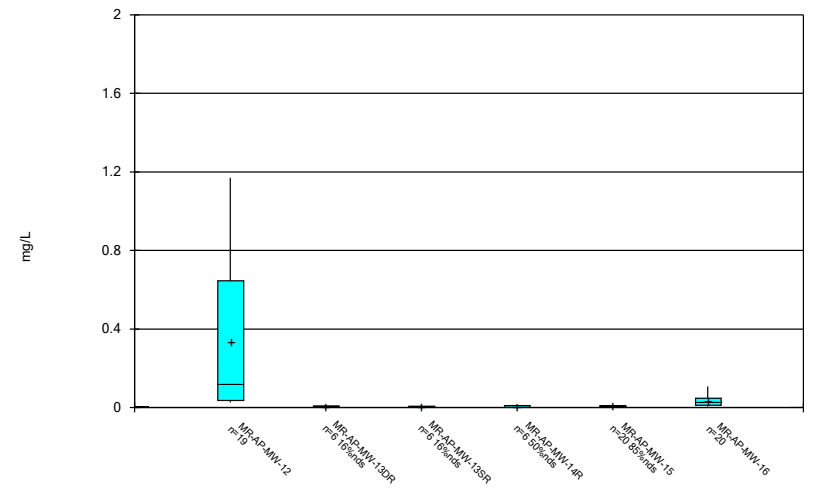
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Box & Whiskers Plot



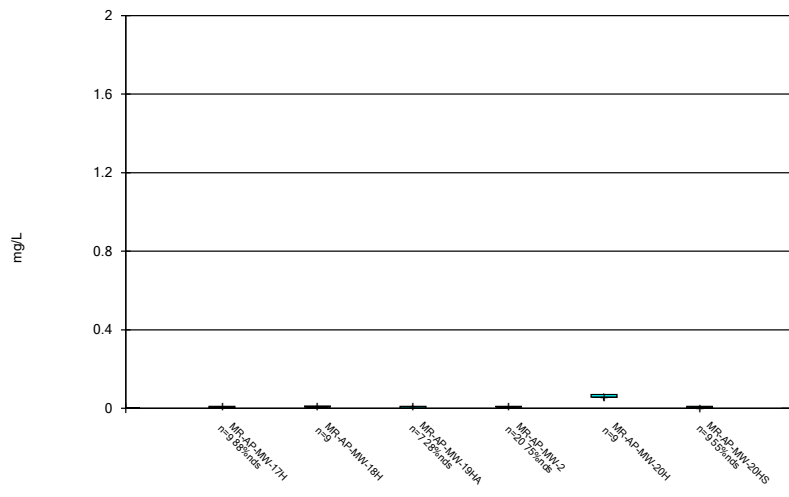
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Box & Whiskers Plot



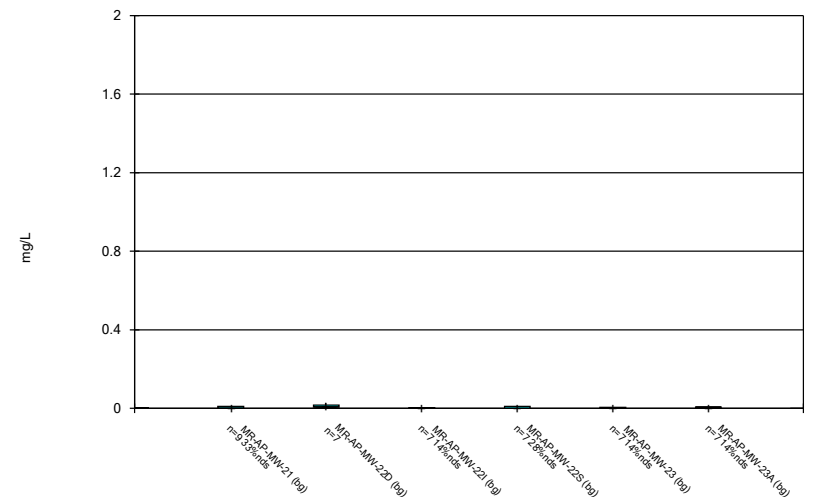
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Box & Whiskers Plot



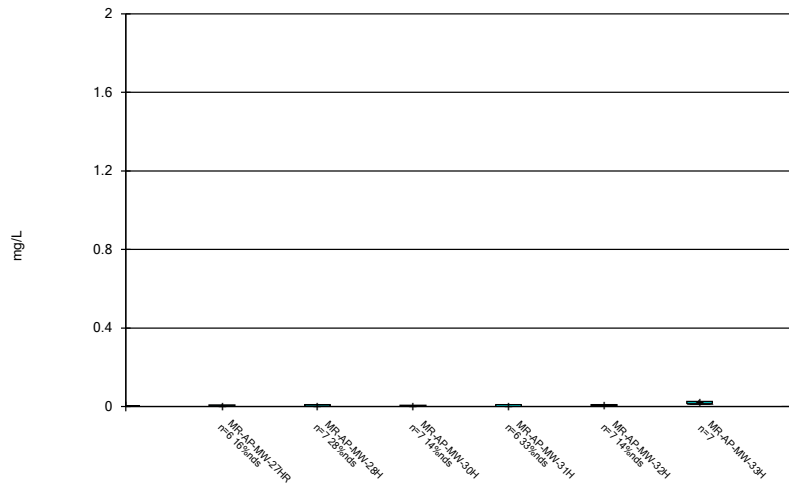
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Box & Whiskers Plot



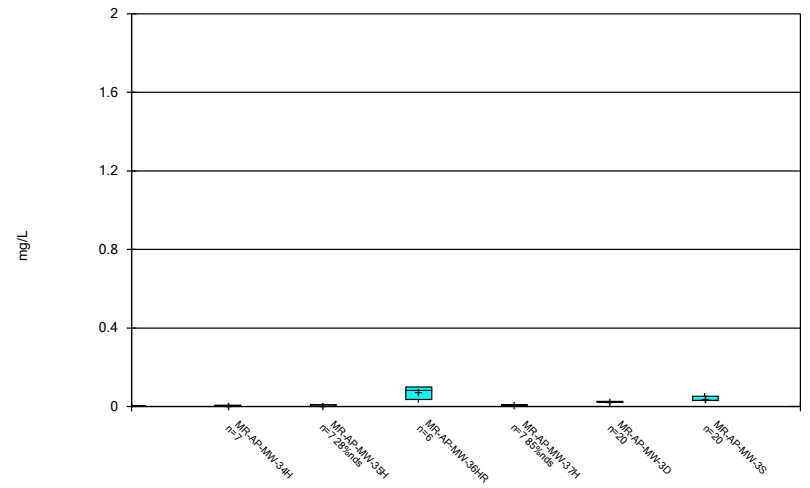
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Box & Whiskers Plot



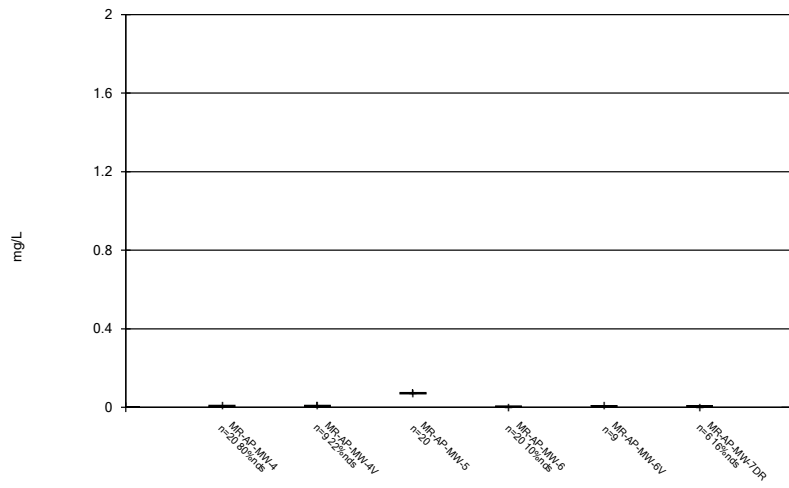
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Box & Whiskers Plot



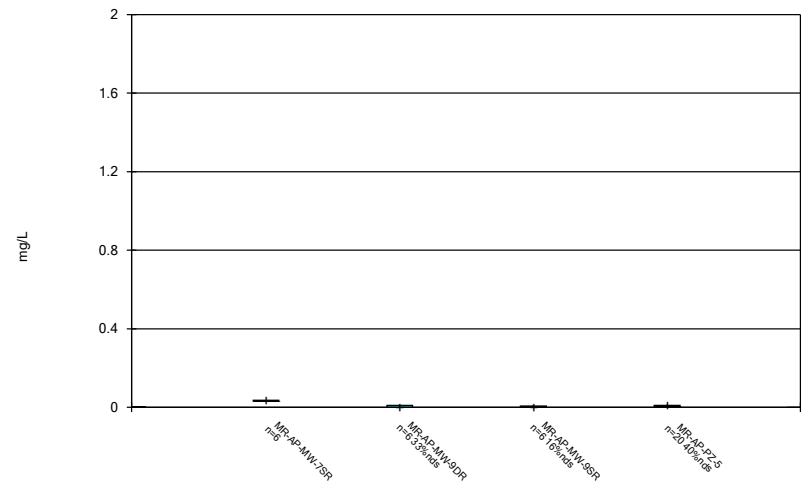
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Box & Whiskers Plot



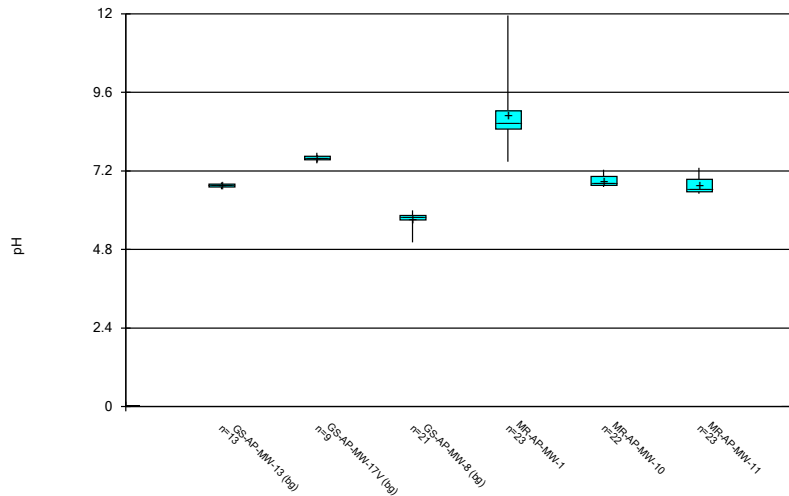
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Box & Whiskers Plot



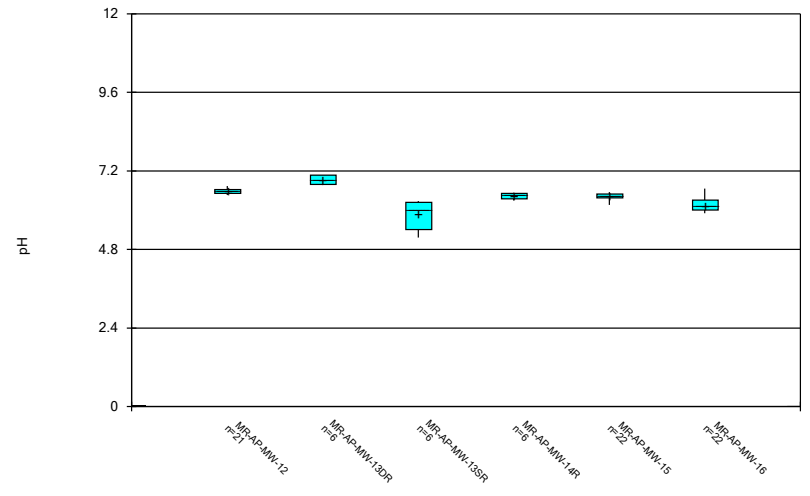
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Box & Whiskers Plot



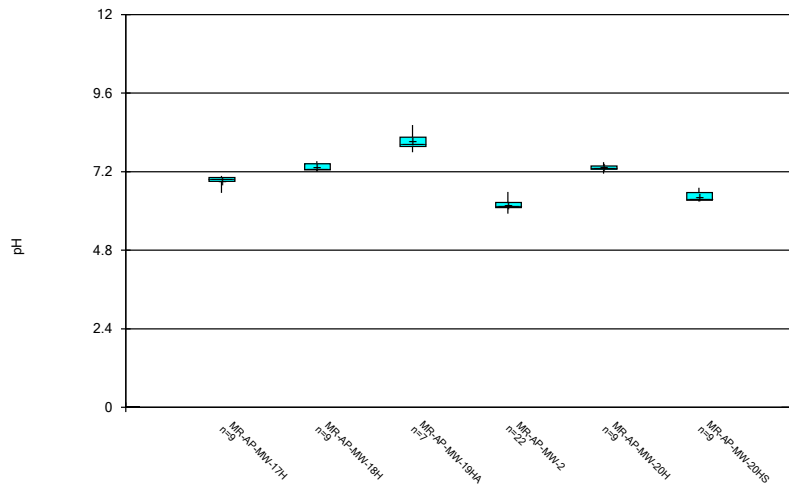
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Box & Whiskers Plot



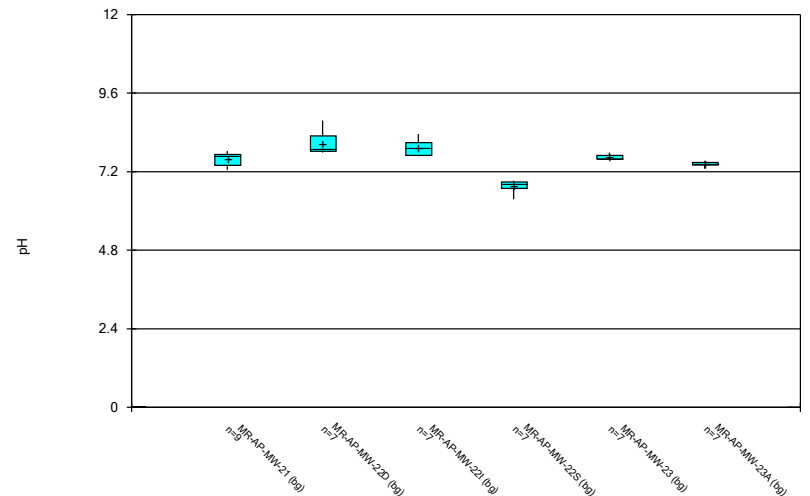
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Box & Whiskers Plot



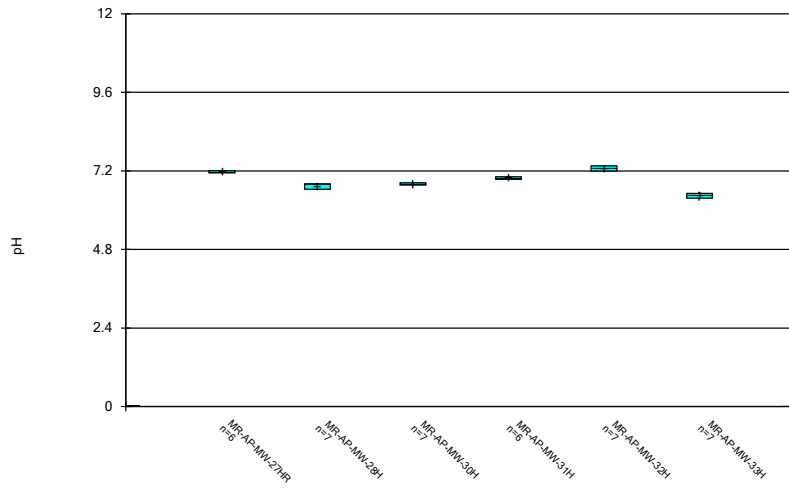
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



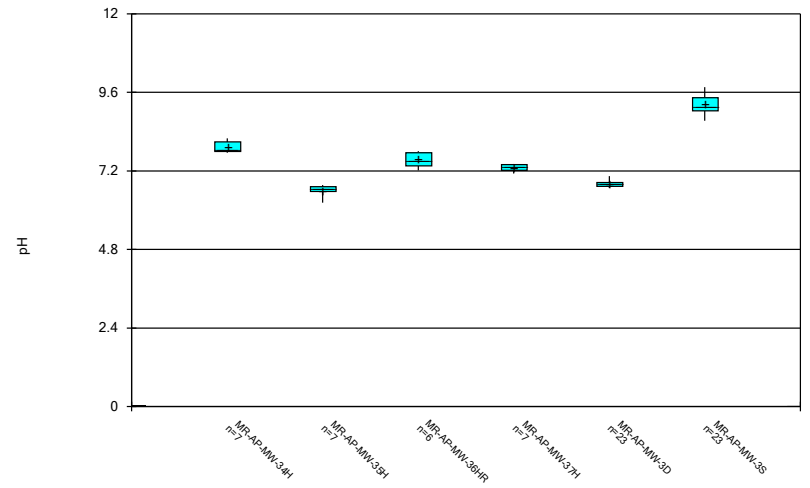
Constituent: pH, Field Analysis Run 6/28/2023 11:50 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



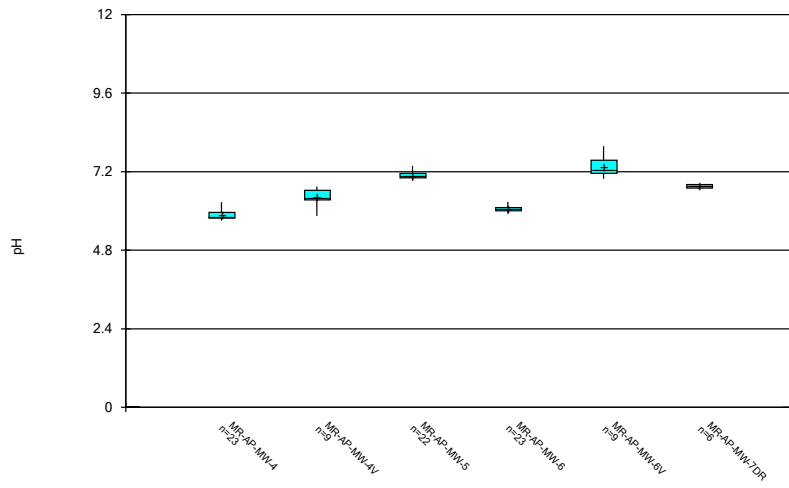
Constituent: pH, Field Analysis Run 6/28/2023 11:50 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



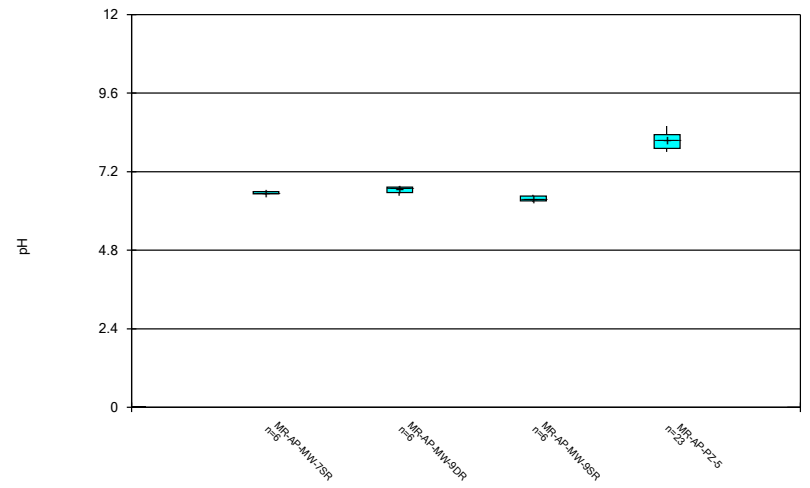
Constituent: pH, Field Analysis Run 6/28/2023 11:50 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



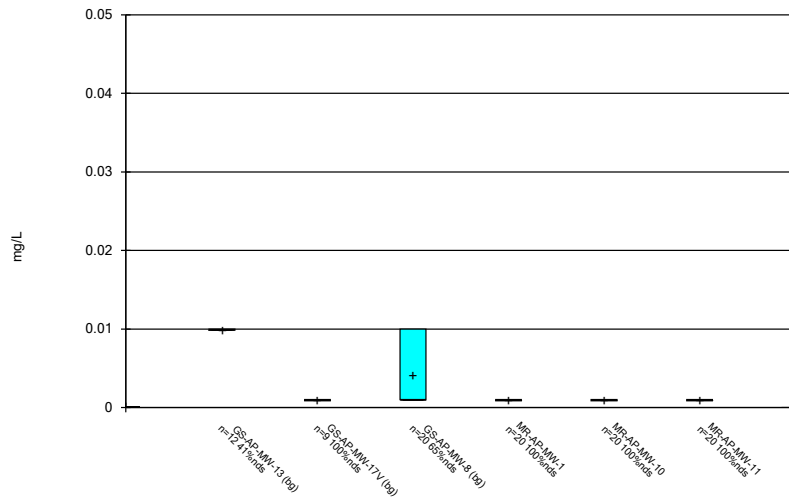
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



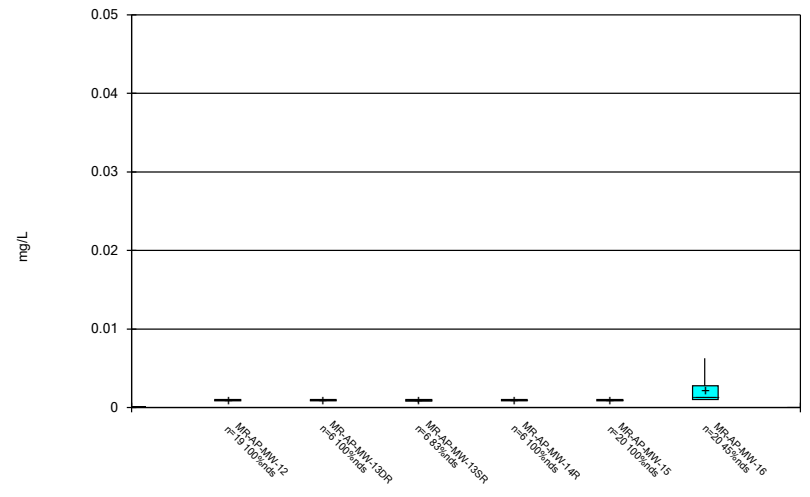
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



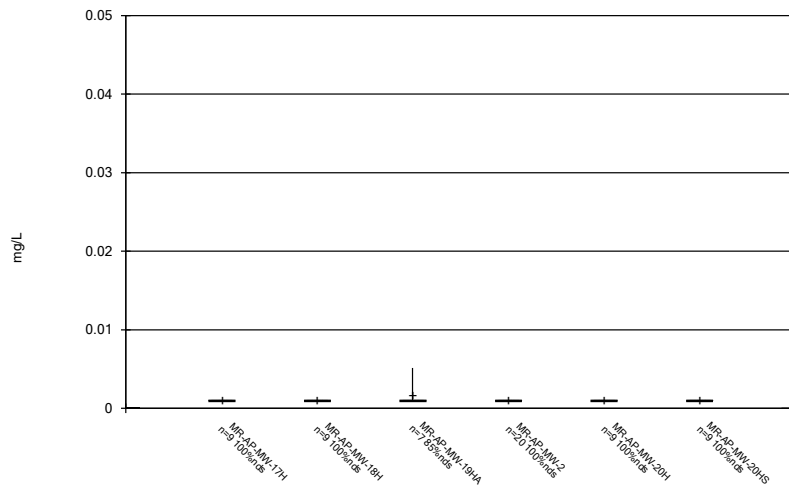
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



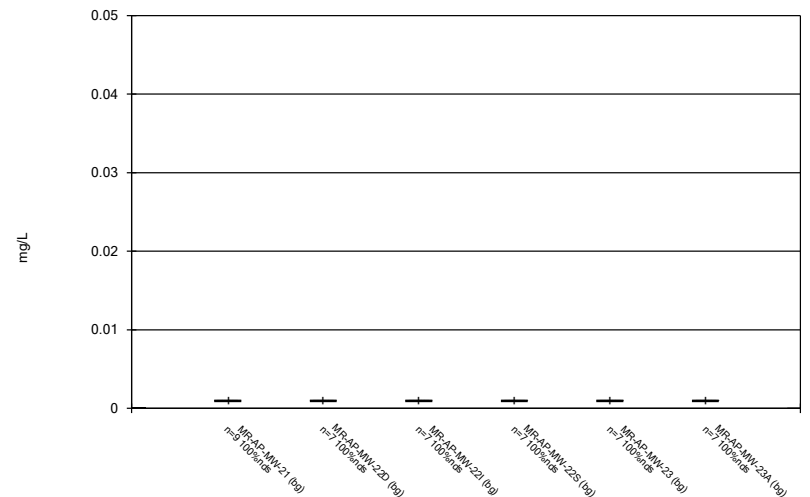
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



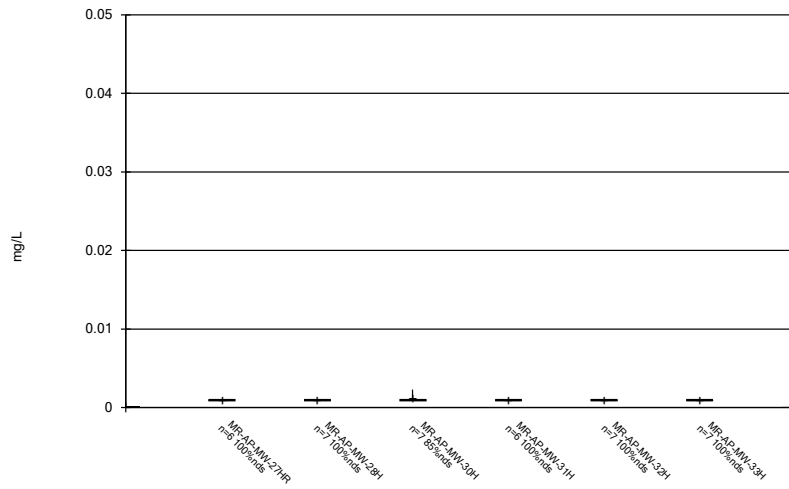
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Box & Whiskers Plot



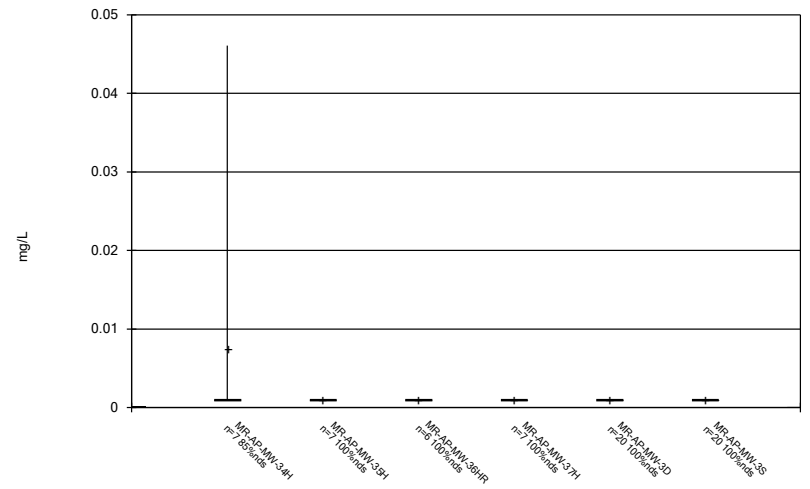
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Box & Whiskers Plot



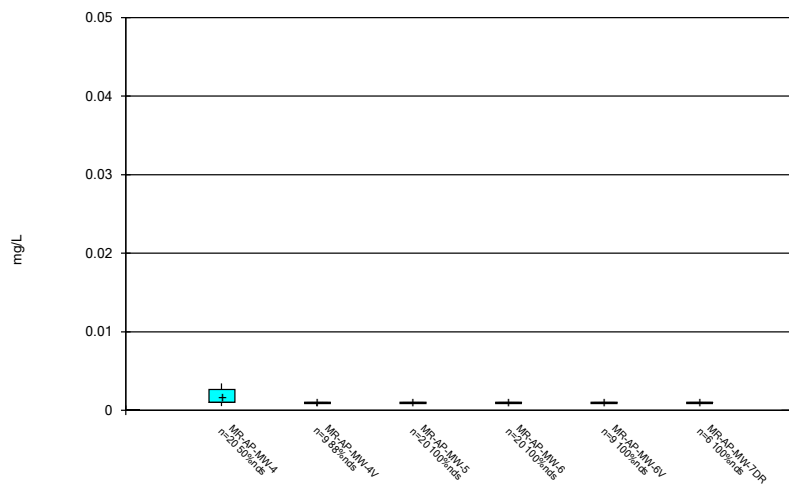
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Box & Whiskers Plot



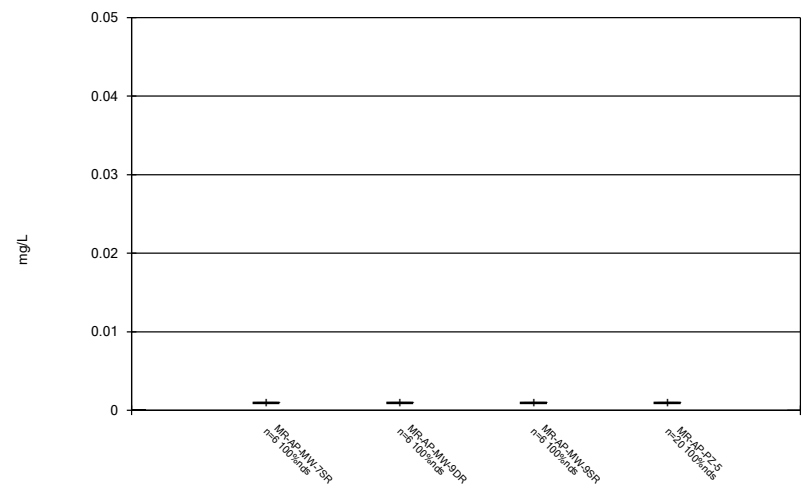
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Box & Whiskers Plot



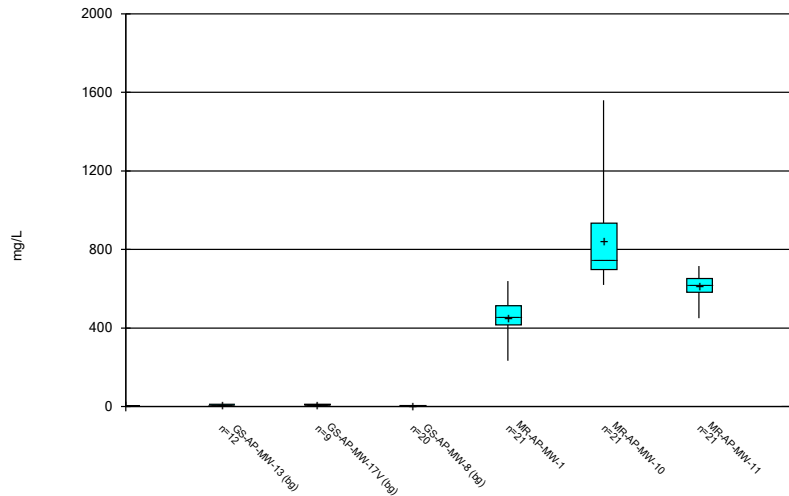
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



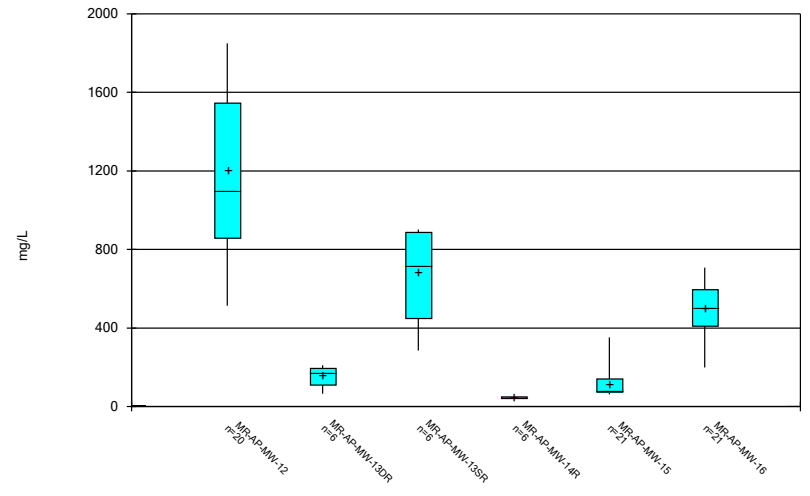
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



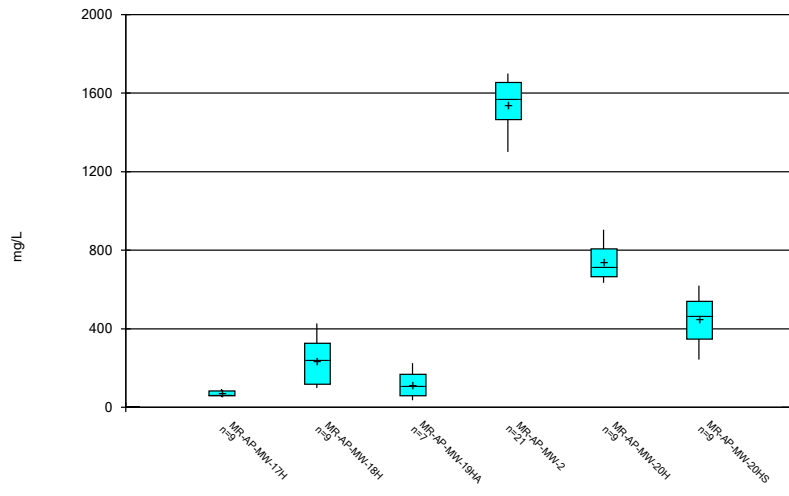
Constituent: Sulfate as SO4 Analysis Run 6/28/2023 11:51 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



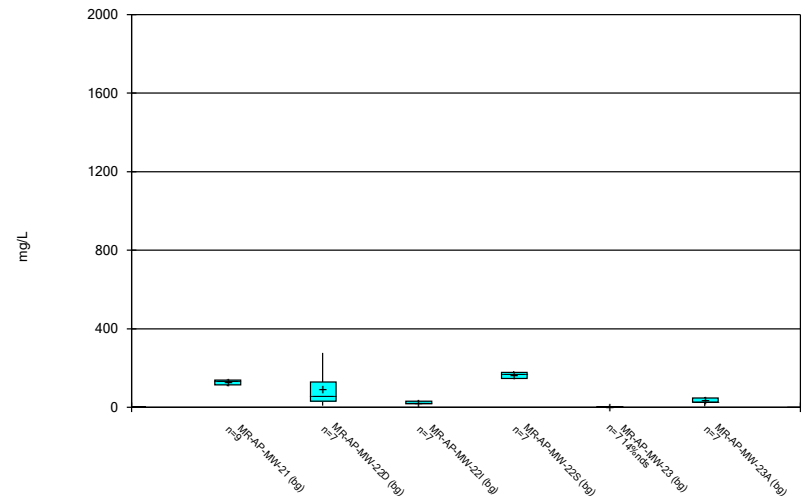
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



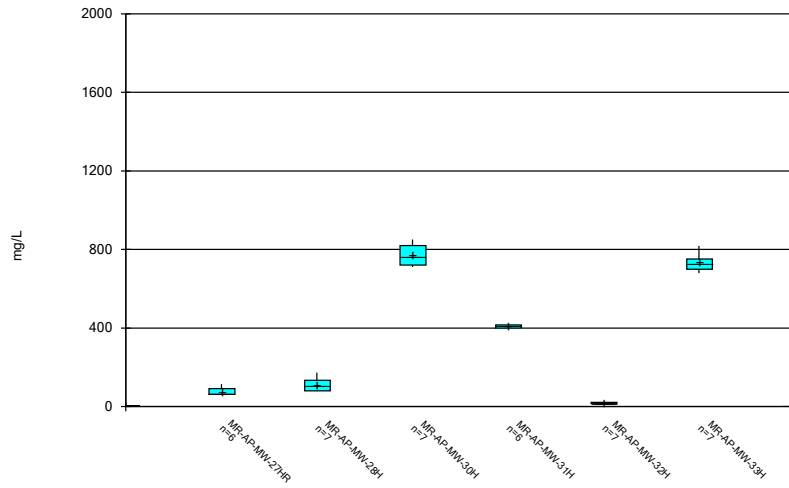
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



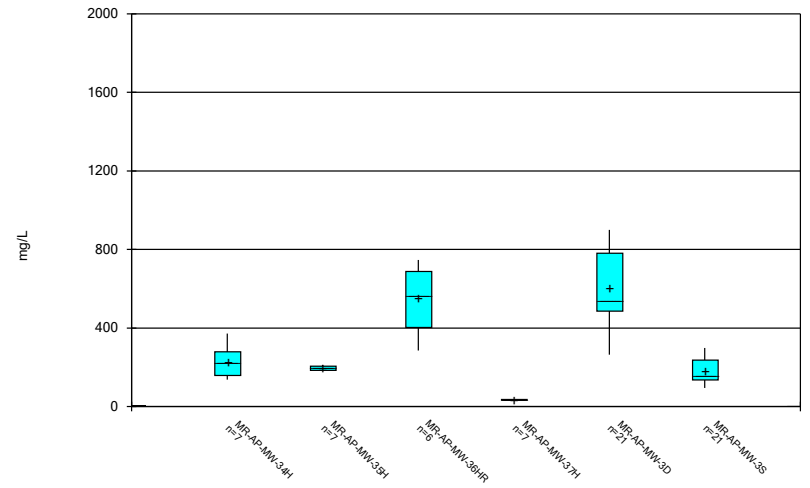
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



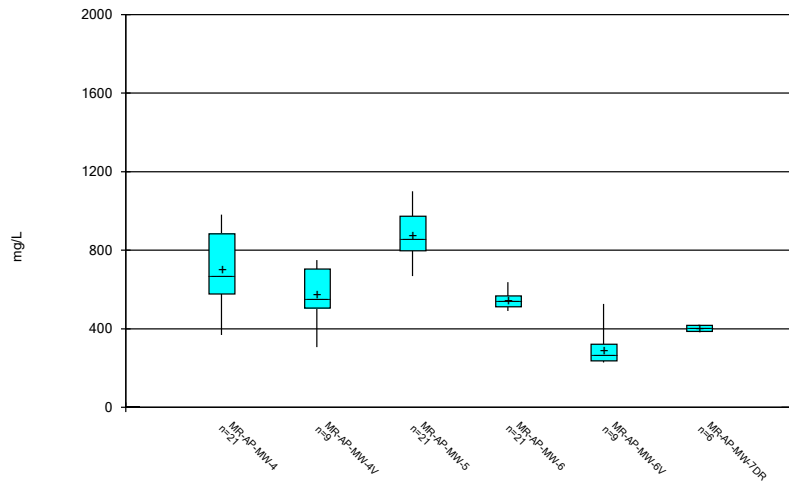
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



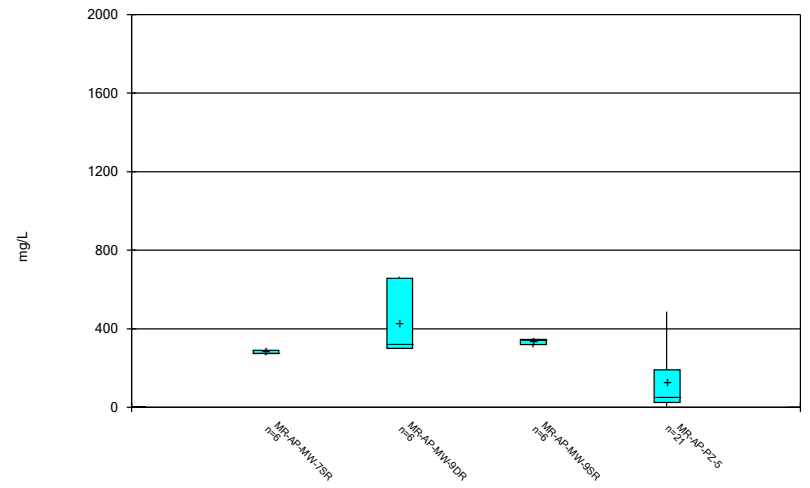
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



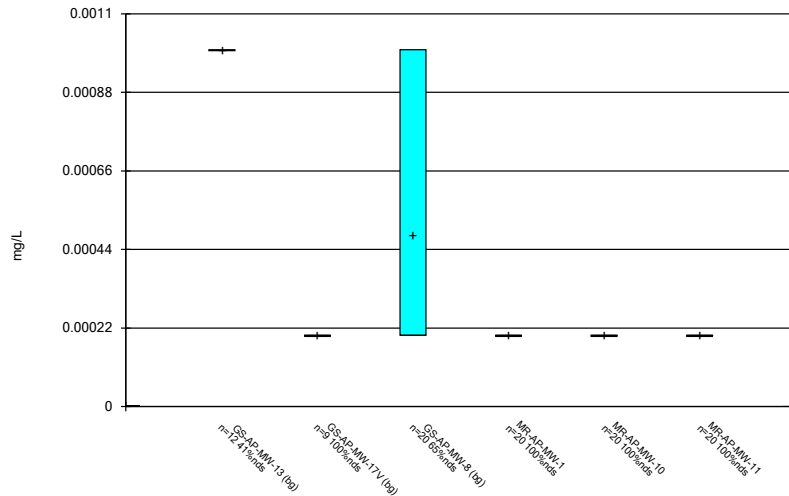
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



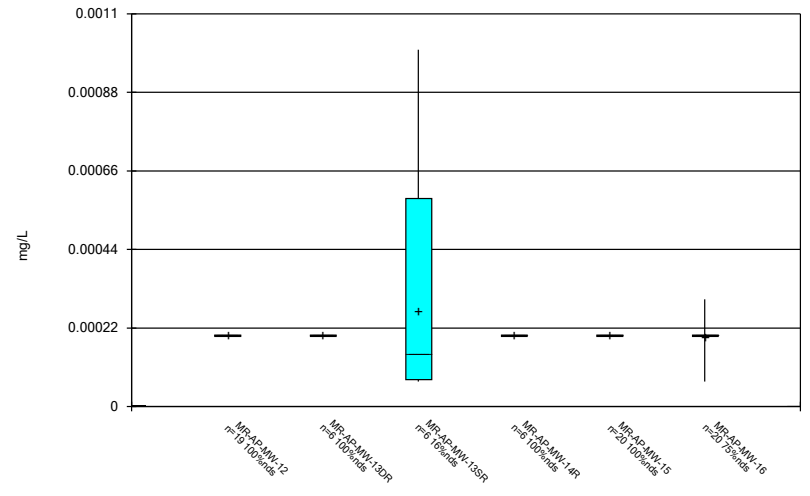
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



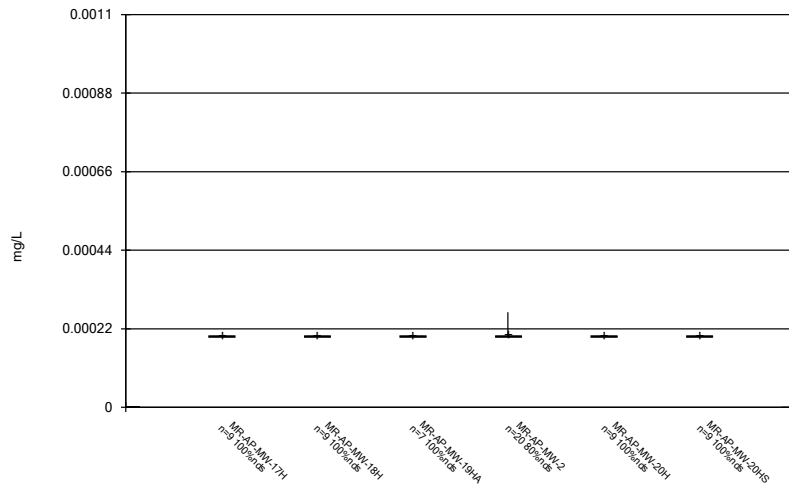
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Box & Whiskers Plot



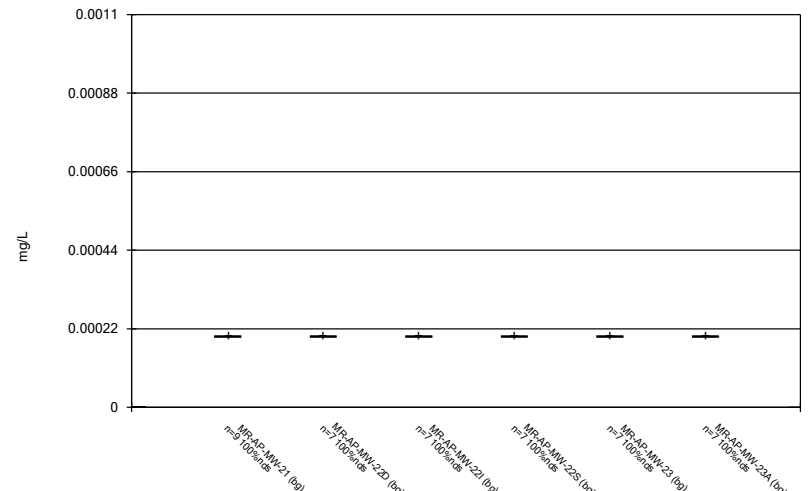
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



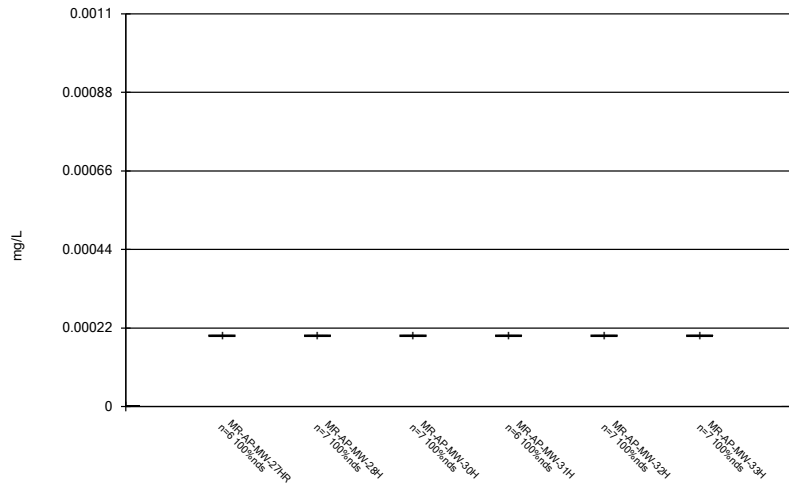
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



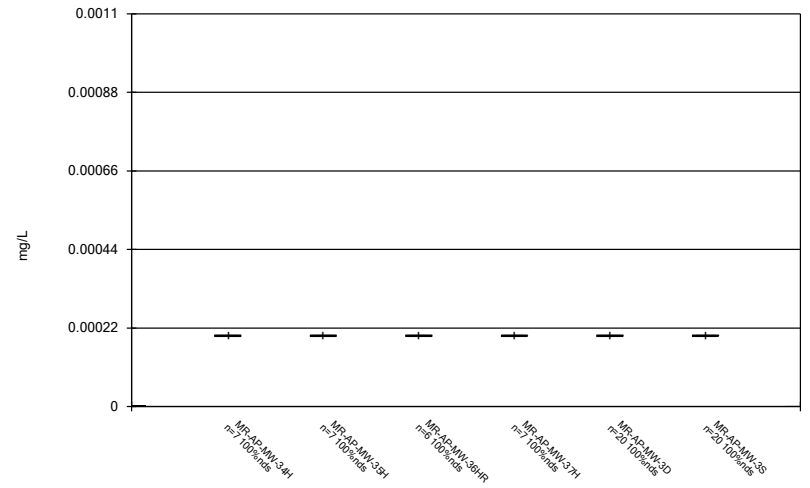
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Box & Whiskers Plot



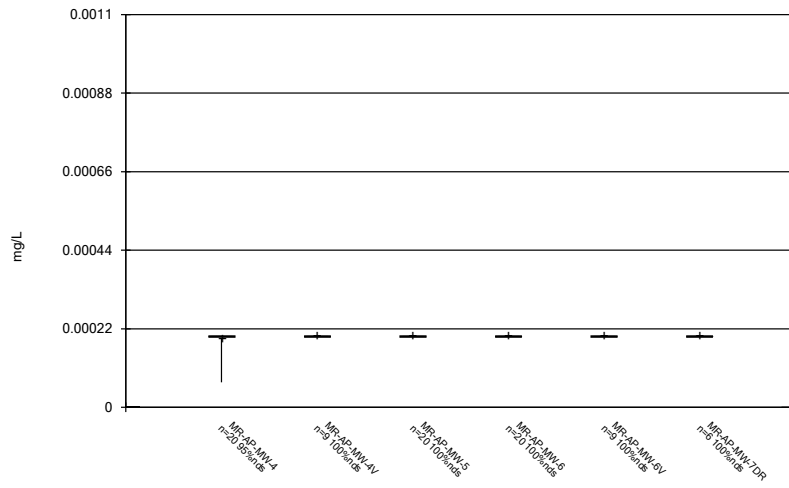
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Box & Whiskers Plot



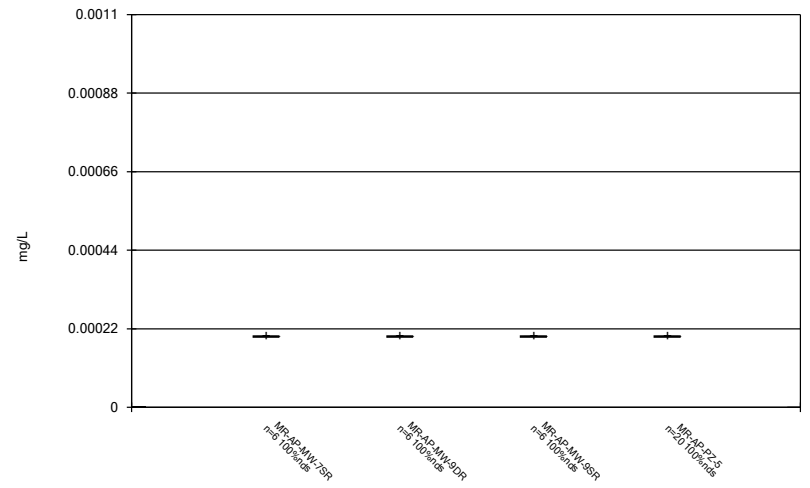
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Box & Whiskers Plot



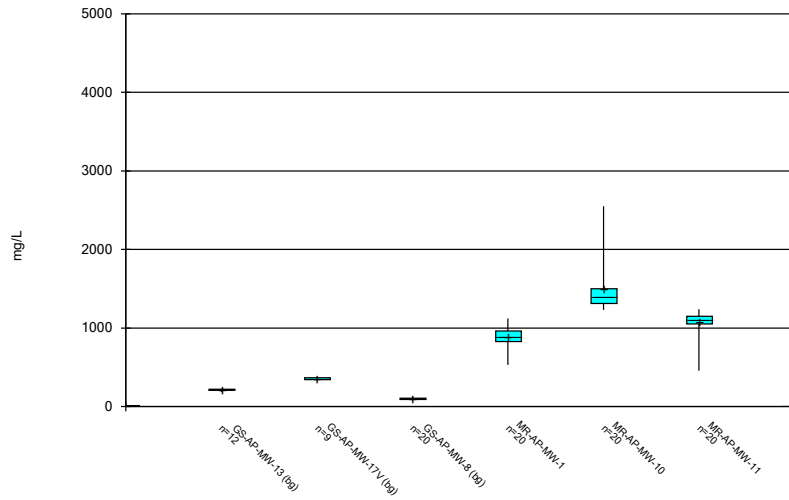
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Box & Whiskers Plot



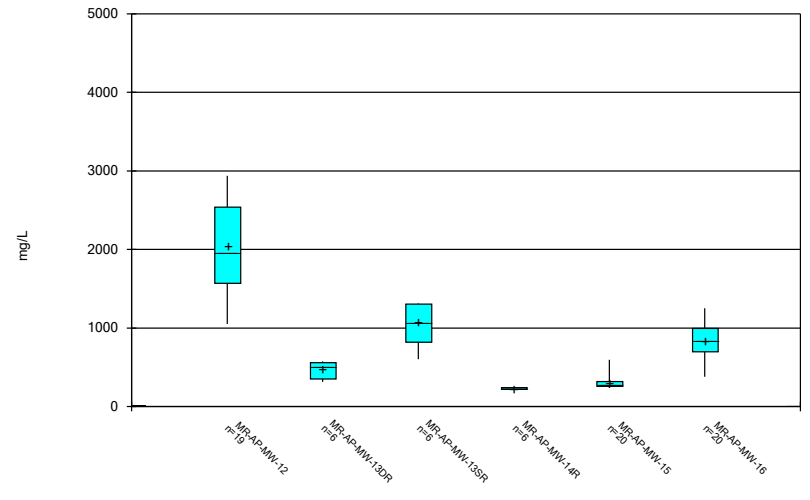
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



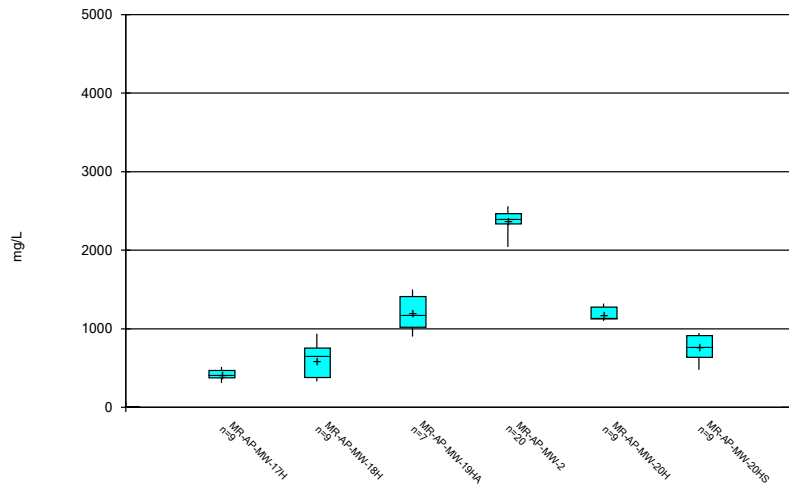
Constituent: Total Dissolved Solids [TDS] Analysis Run 6/28/2023 11:51 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



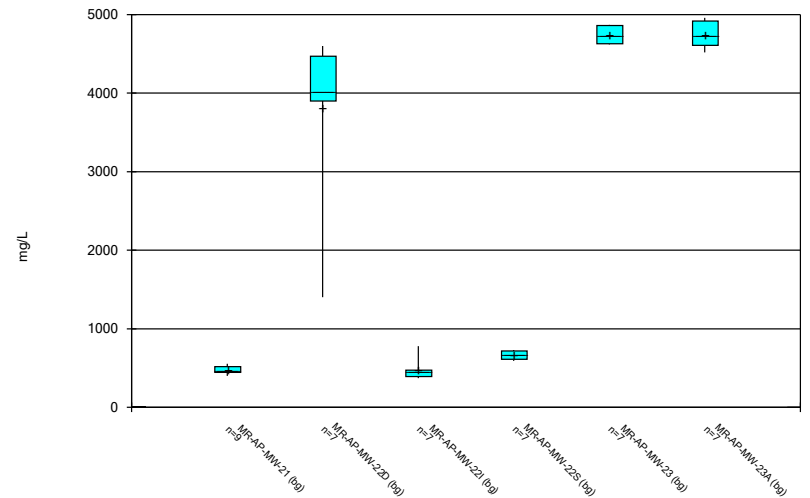
Constituent: Total Dissolved Solids [TDS] Analysis Run 6/28/2023 11:51 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



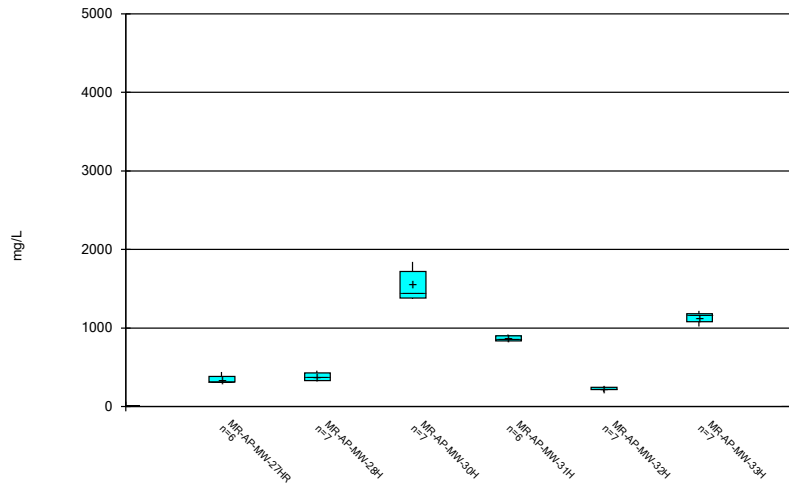
Constituent: Total Dissolved Solids [TDS] Analysis Run 6/28/2023 11:51 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



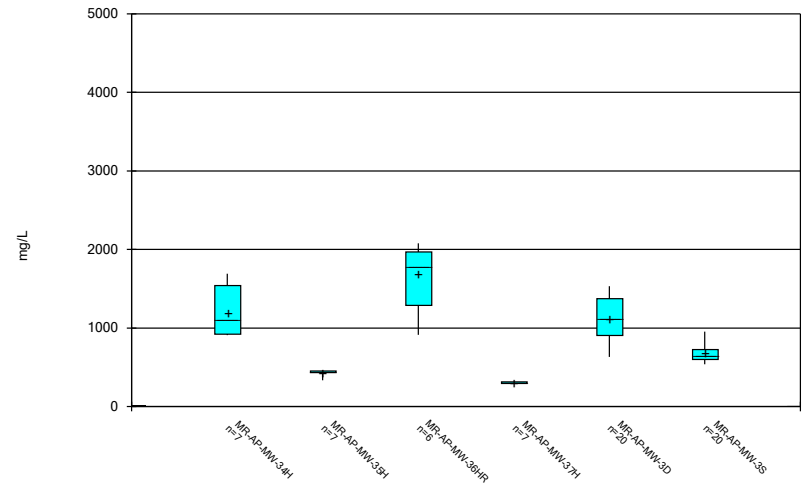
Constituent: Total Dissolved Solids [TDS] Analysis Run 6/28/2023 11:51 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



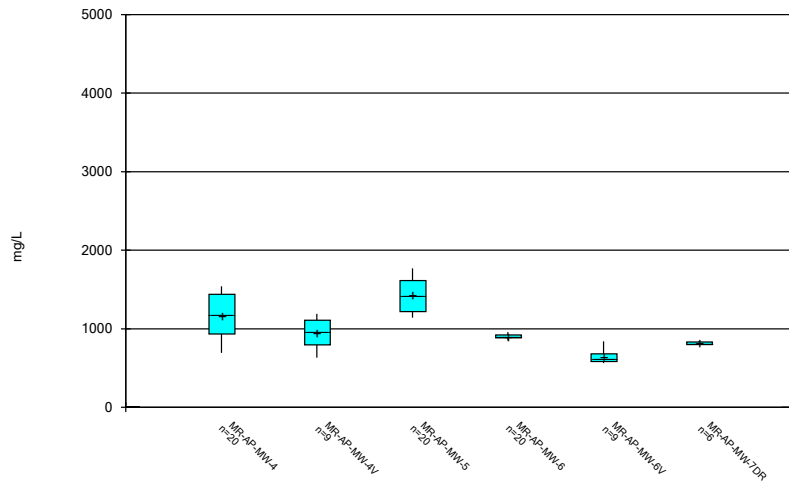
Constituent: Total Dissolved Solids [TDS] Analysis Run 6/28/2023 11:51 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



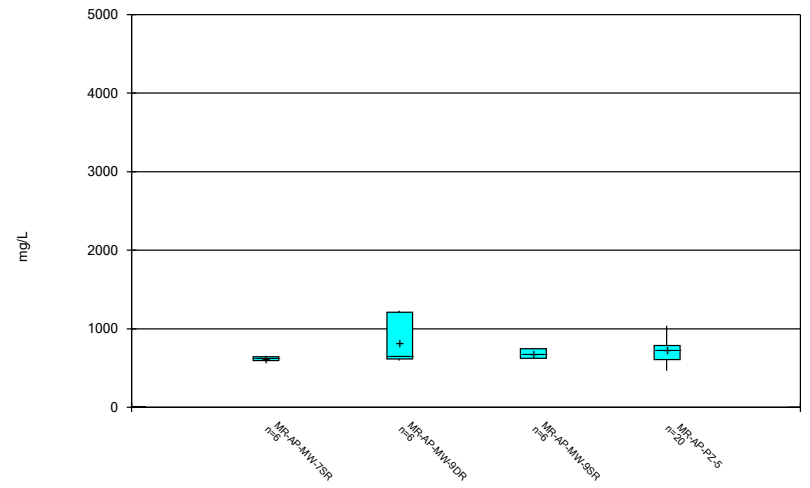
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Plant Miller Client: Southern Company Data: Miller Ash Pond

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

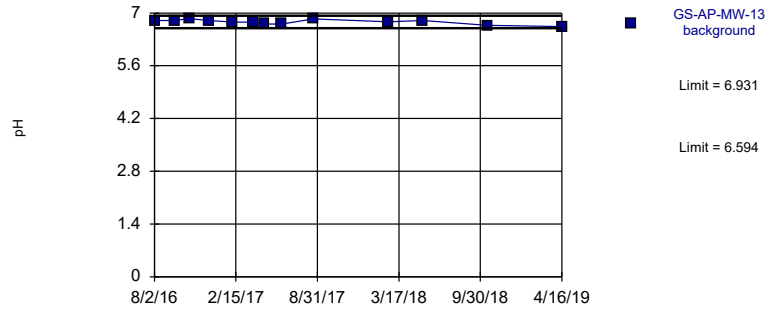
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg. N	Bg. Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH, Field (pH)	MR-AP-MW-10	7.103	6.575	5/3/2023	7.15	Yes	18	6.839	0.1089	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-12	6.685	6.441	5/3/2023	6.74	Yes	17	6.563	0.04982	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	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

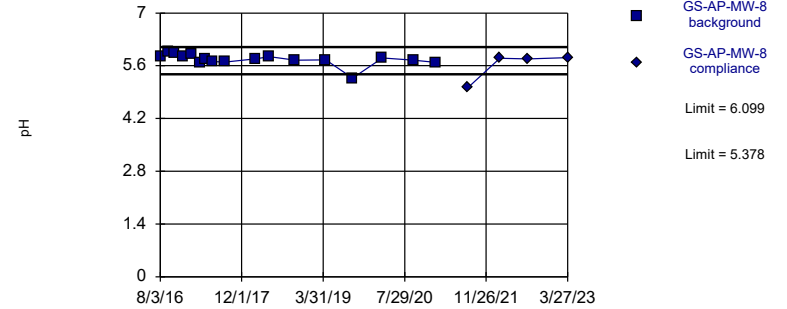
Prediction Limit
Intrawell Parametric, GS-AP-MW-13 (bg)



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

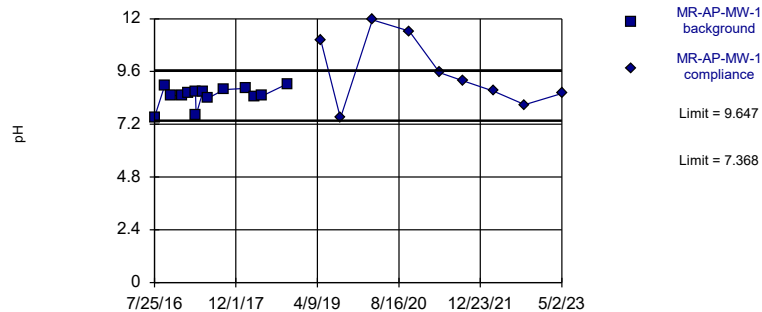
Within Limits Prediction Limit
Intrawell Parametric



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

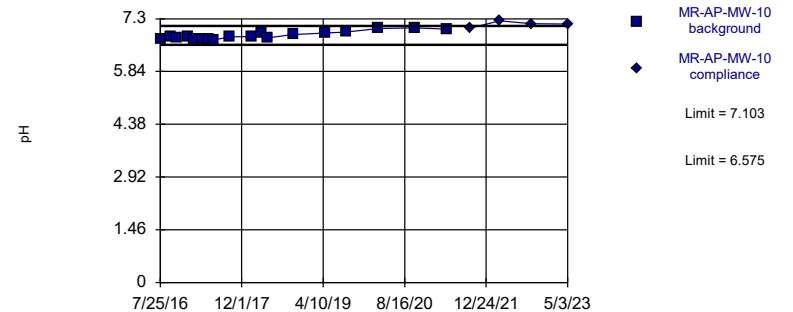
Within Limits Prediction Limit
Intrawell Parametric



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

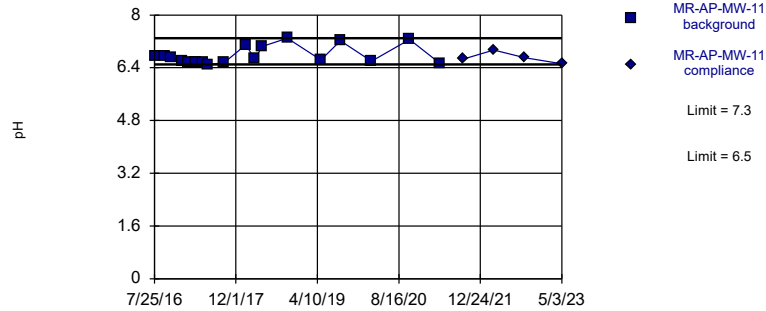


Background Data Summary: Mean=6.839, Std. Dev.=0.1089, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8977, critical = 0.858. Kappa = 2.421 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005787.

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

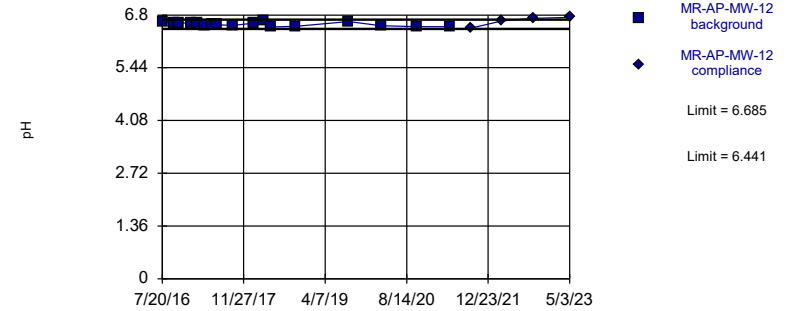


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 19 background values. Well-constituent pair annual alpha = 0.01928. Individual comparison alpha = 0.009664 (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

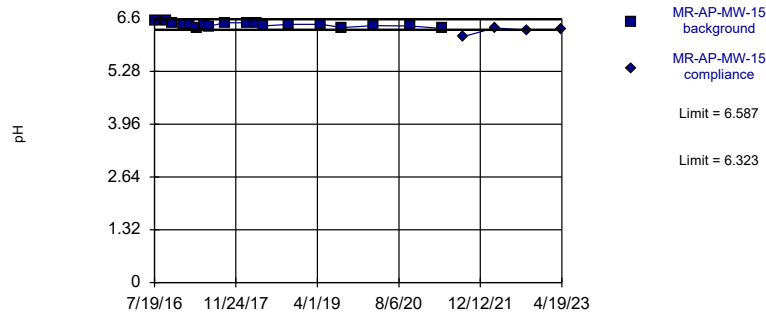


Background Data Summary: Mean=6.563, Std. Dev.=0.04982, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9366, critical = 0.851. Kappa = 2.451 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005787.

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

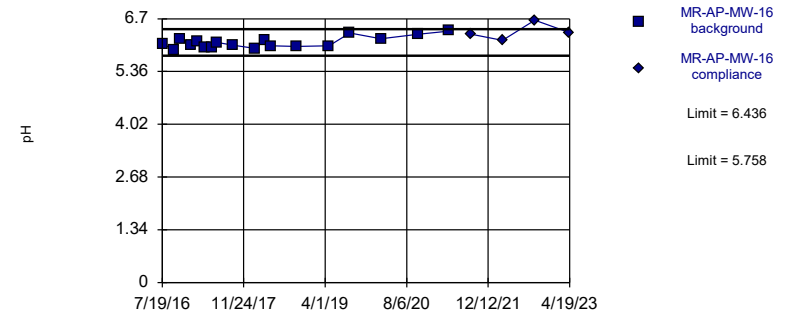


Background Data Summary: Mean=6.455, Std. Dev.=0.05437, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9619, critical = 0.858. Kappa = 2.421 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005787.

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

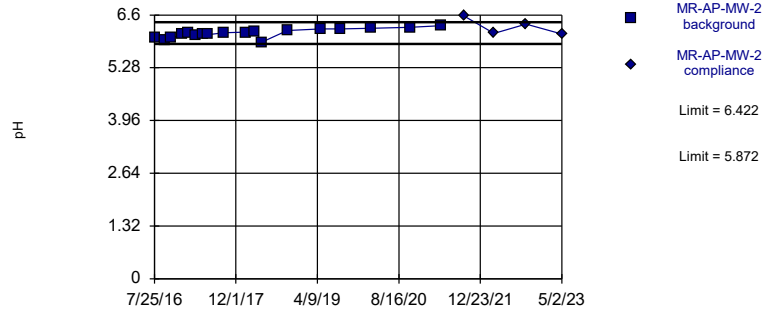


Background Data Summary: Mean=6.097, Std. Dev.=0.1401, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9156, critical = 0.858. Kappa = 2.421 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005787.

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

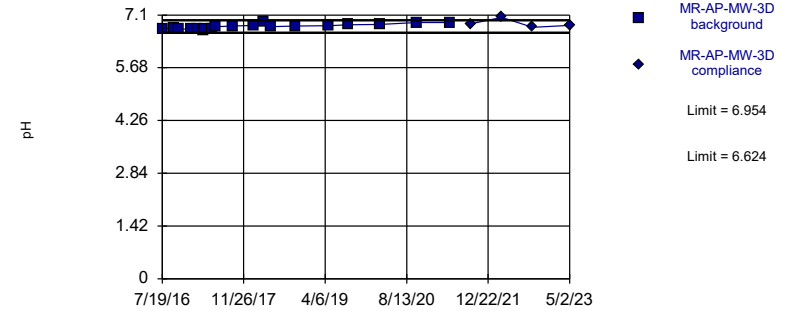


Background Data Summary: Mean=6.147, Std. Dev.=0.1135, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9708, critical = 0.858. Kappa = 2.421 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005787.

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

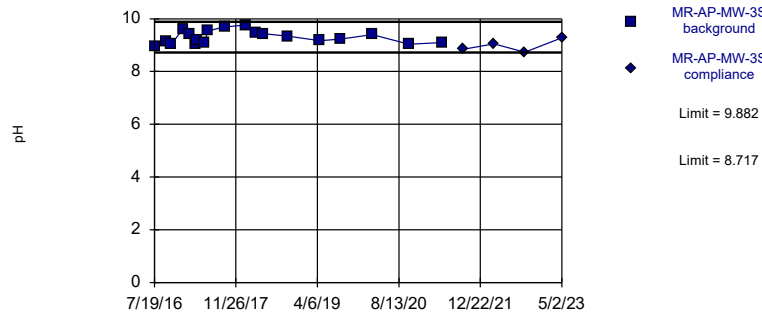


Background Data Summary: Mean=6.789, Std. Dev.=0.06919, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9396, critical = 0.863. Kappa = 2.391 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005787.

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

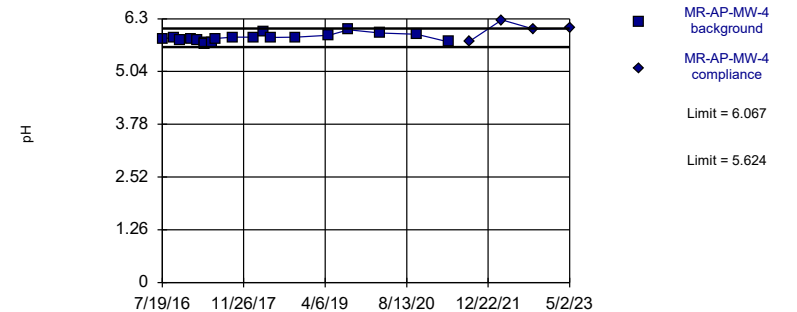


Background Data Summary: Mean=9.299, Std. Dev.=0.2437, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9381, critical = 0.863. Kappa = 2.391 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005787.

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

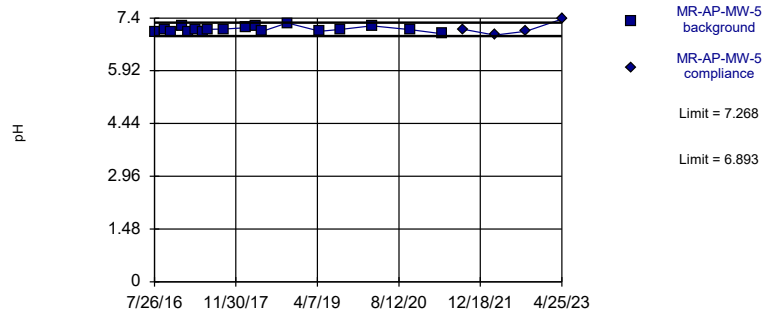


Background Data Summary: Mean=5.846, Std. Dev.=0.0927, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.965, critical = 0.863. Kappa = 2.391 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005787.

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

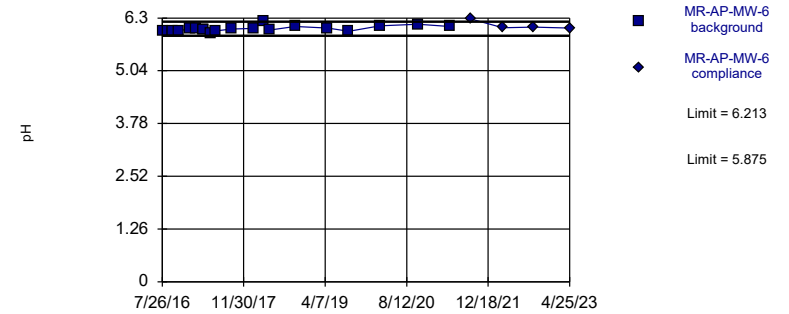


Background Data Summary: Mean=7.08, Std. Dev.=0.07743, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9459, critical = 0.858. Kappa = 2.421 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005787.

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

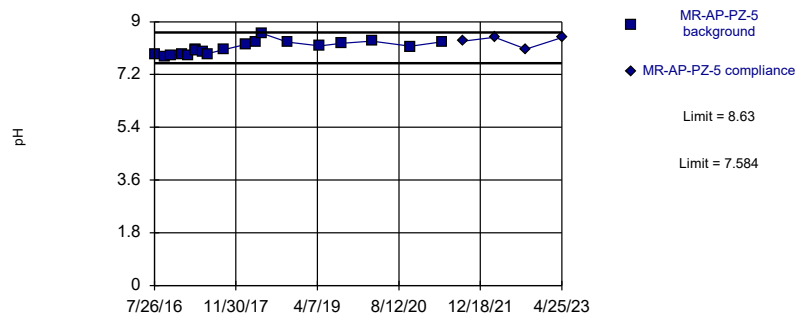


Background Data Summary: Mean=6.044, Std. Dev.=0.07073, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9349, critical = 0.863. Kappa = 2.391 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005787.

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 - IntraWell

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
Boron, total (mg/L)	MR-AP-MW-1	0.1015	n/a	5/2/2023	0.0572J	No	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-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-11	0.1015	n/a	5/3/2023	0.0402J	No	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-12	63.8	n/a	5/3/2023	30.3	No	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-3S	63.8	n/a	5/2/2023	8.78	No	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
Calcium, total (mg/L)	MR-AP-PZ-5	63.8	n/a	4/25/2023	5.85	No	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-1	21	n/a	5/2/2023	9.27	No	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-10	21	n/a	5/3/2023	7.08	No	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-11	21	n/a	5/3/2023	6.53	No	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-12	21	n/a	5/3/2023	5.56	No	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-15	21	n/a	4/19/2023	17.9	No	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-16	21	n/a	4/19/2023	5.39	No	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-2	21	n/a	5/2/2023	4.85	No	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-3D	21	n/a	5/2/2023	6.52	No	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-4	21	n/a	5/2/2023	19.6	No	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
Chloride, Total (mg/L)	MR-AP-PZ-5	21	n/a	4/25/2023	17.1	No	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-1	0.2978	n/a	5/2/2023	0.181	No	52	0.1532	0.06897	0	None	No	0.0005787	Param Inter 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-11	0.2978	n/a	5/3/2023	0.172	No	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-15	0.2978	n/a	4/19/2023	0.119J	No	52	0.1532	0.06897	0	None	No	0.0005787	Param Inter 1 of 2
Fluoride, total (mg/L)	MR-AP-MW-16	0.2978	n/a	4/19/2023	0.16	No	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-4	0.2978	n/a	5/2/2023	0.17	No	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-MW-6	0.2978	n/a	4/25/2023	0.0863J	No	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

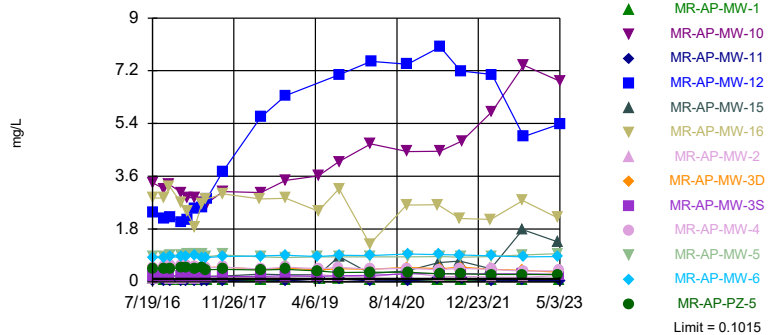
Interwell Prediction Limits - All Results

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

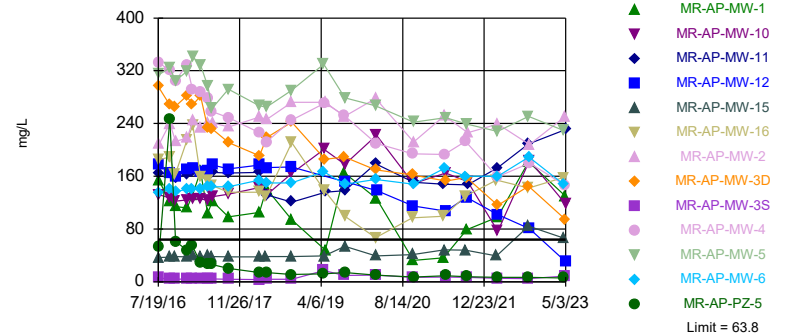


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 50 background values. 36% NDs. Annual per-constituent alpha = 0.01865. Individual comparison alpha = 0.0007237 (1 of 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

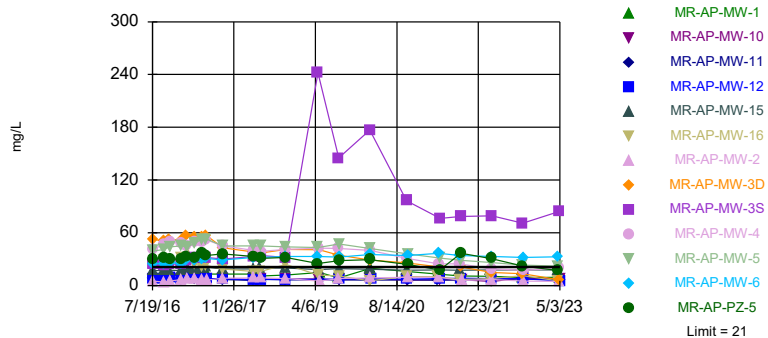


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 50 background values. Annual per-constituent alpha = 0.01865. Individual comparison alpha = 0.0007237 (1 of 2). Comparing 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

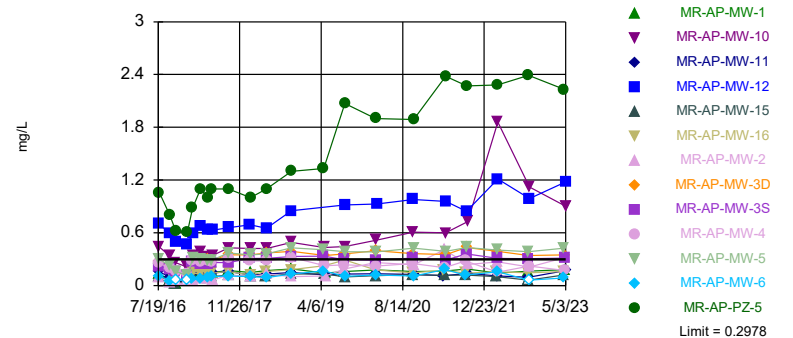


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 50 background values. Annual per-constituent alpha = 0.01865. Individual comparison alpha = 0.0007237 (1 of 2). Comparing 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

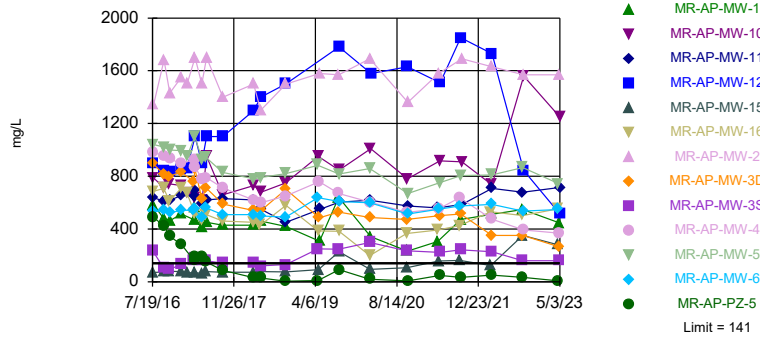


Background Data Summary: Mean=0.1532, Std. Dev.=0.06897, n=52. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9732, critical = 0.937. Kappa = 2.096 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0005787. Comparing 13 points to limit.

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

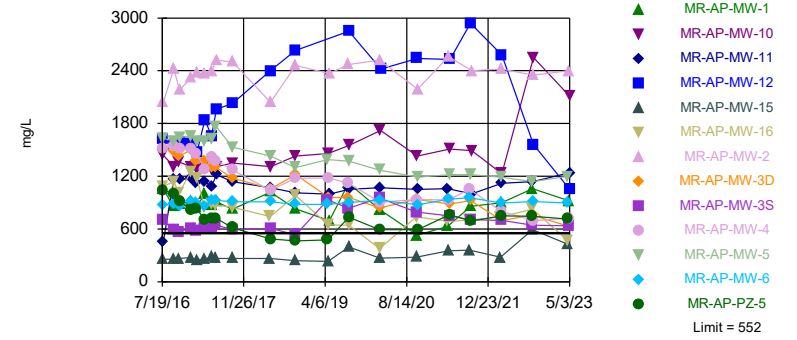


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 50 background values. Annual per-constituent alpha = 0.01865. Individual comparison alpha = 0.0007237 (1 of 2). Comparing 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

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

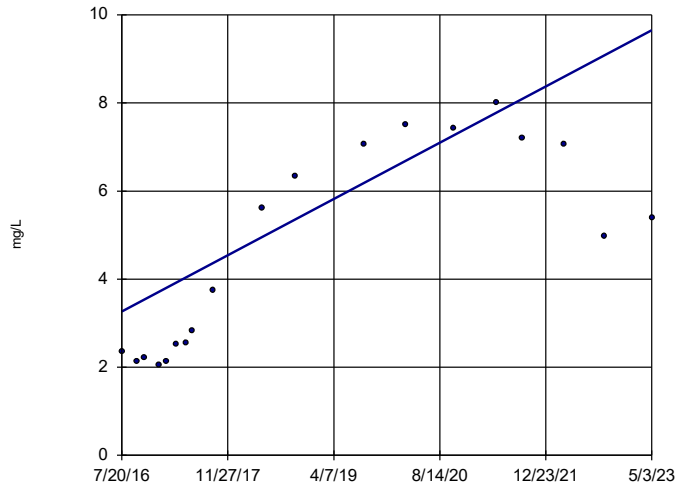
Trend Tests - All Results

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

Sen's Slope Estimator

MR-AP-MW-12

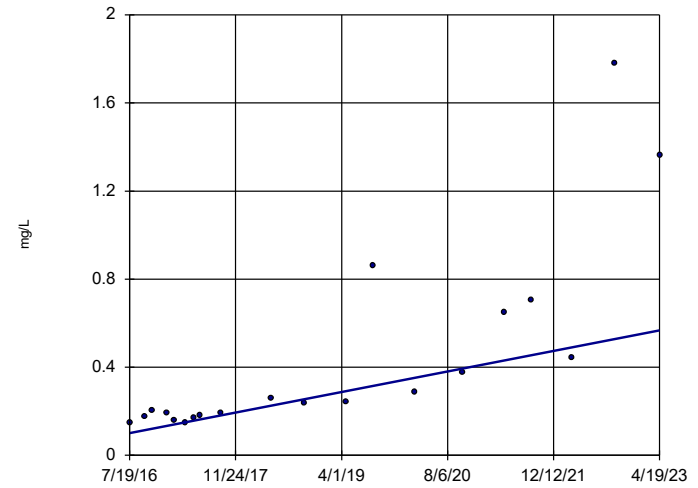


n = 19
 Slope = 0.9402
 units per year.
 Mann-Kendall
 statistic = 107
 critical = 74
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

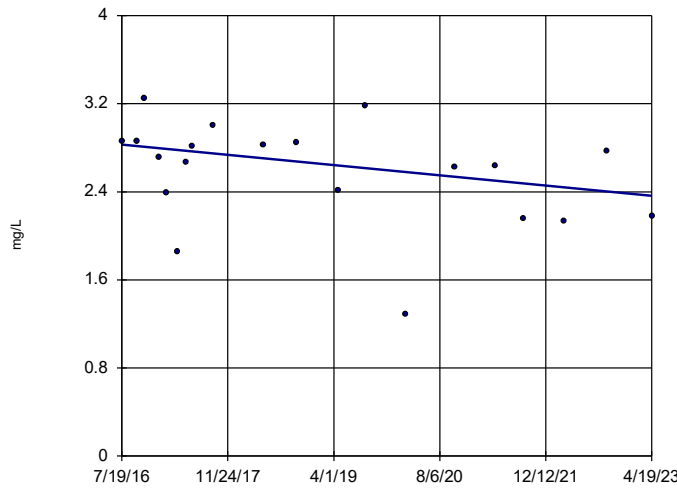


n = 20
 Slope = 0.06903
 units per year.
 Mann-Kendall
 statistic = 139
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

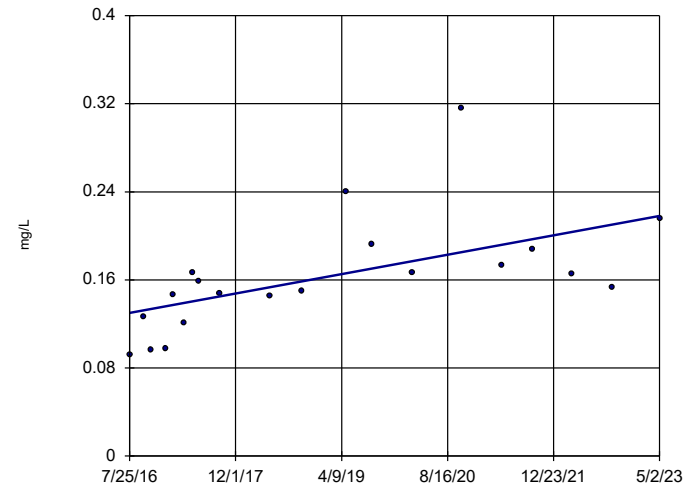


n = 20
 Slope = -0.06903
 units per year.
 Mann-Kendall
 statistic = -57
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

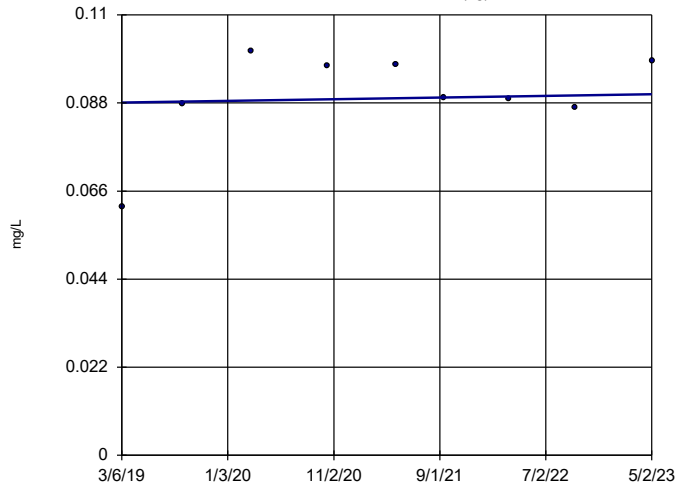


n = 20
 Slope = 0.01298
 units per year.
 Mann-Kendall
 statistic = 109
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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)

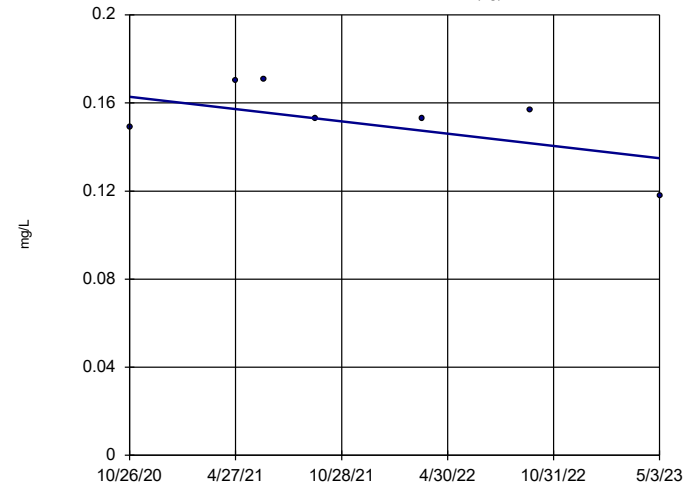


n = 9
 Slope = 0.0005035 units per year.
 Mann-Kendall statistic = 4
 critical = 25
 Trend not significant at 99% confidence level (α = 0.005 per tail).

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)

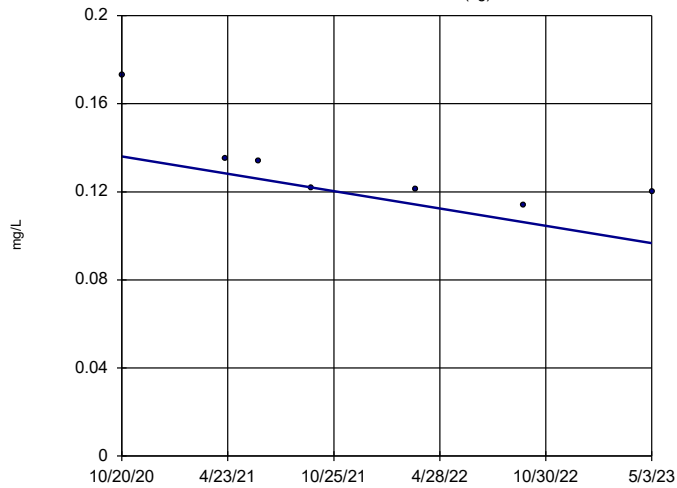


n = 7
 Slope = -0.01106 units per year.
 Mann-Kendall statistic = -4
 critical = -18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

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)

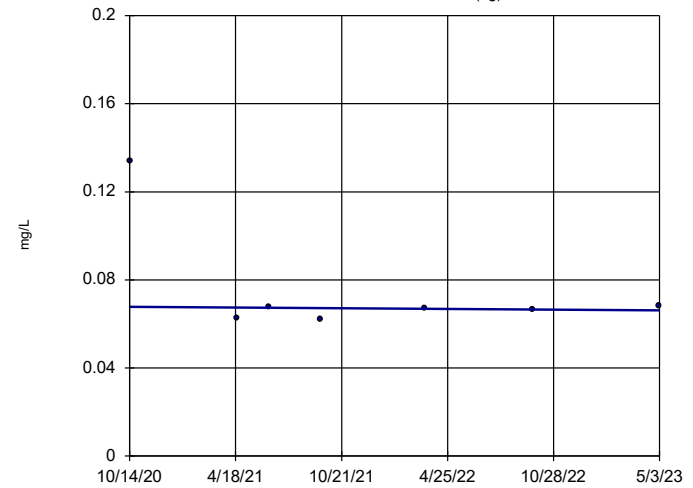


n = 7
 Slope = -0.01548 units per year.
 Mann-Kendall statistic = -19
 critical = -18
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

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)

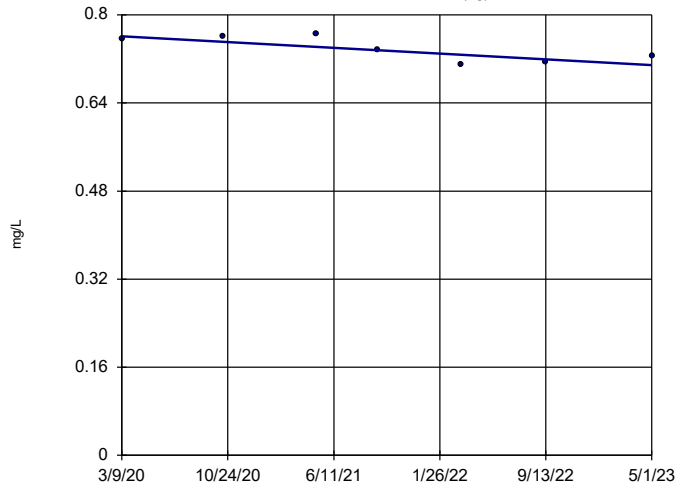


n = 7
 Slope = -0.0006885 units per year.
 Mann-Kendall statistic = -1
 critical = -18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

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)

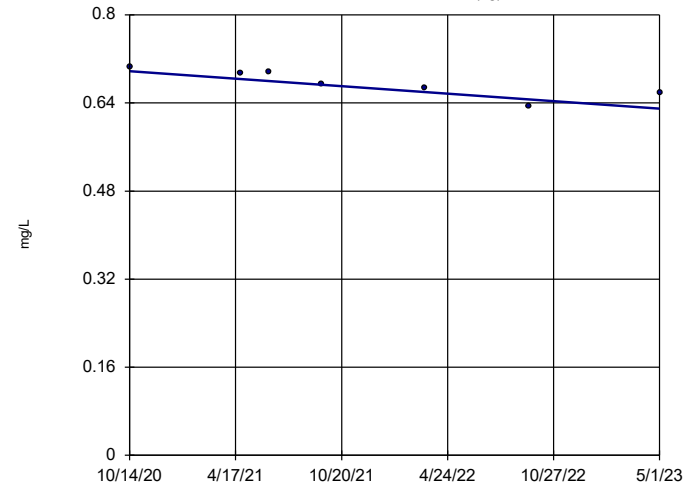


n = 7
 Slope = -0.01668 units per year.
 Mann-Kendall statistic = -9
 critical = -18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

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-23A (bg)

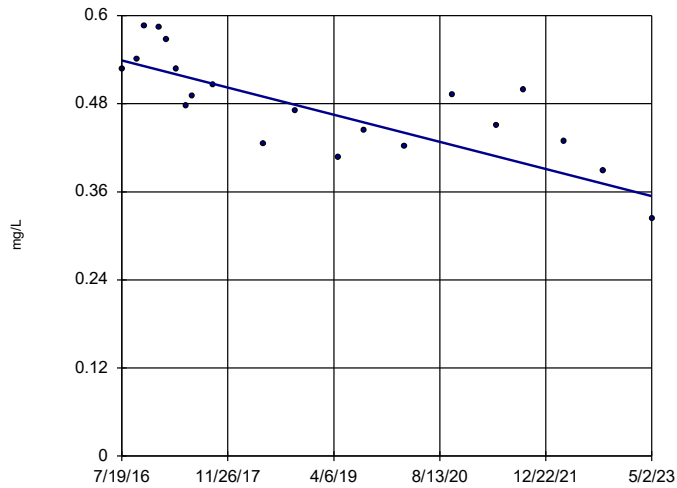


n = 7
 Slope = -0.02678 units per year.
 Mann-Kendall statistic = -17
 critical = -18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

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-3D

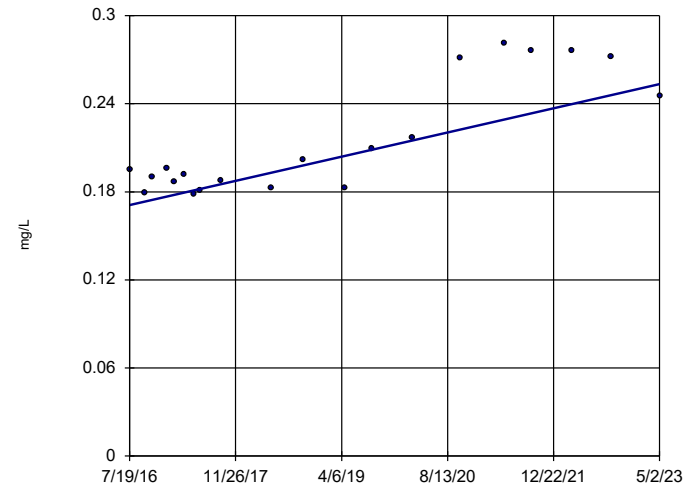


n = 20
 Slope = -0.02718 units per year.
 Mann-Kendall statistic = -115
 critical = -81
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

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

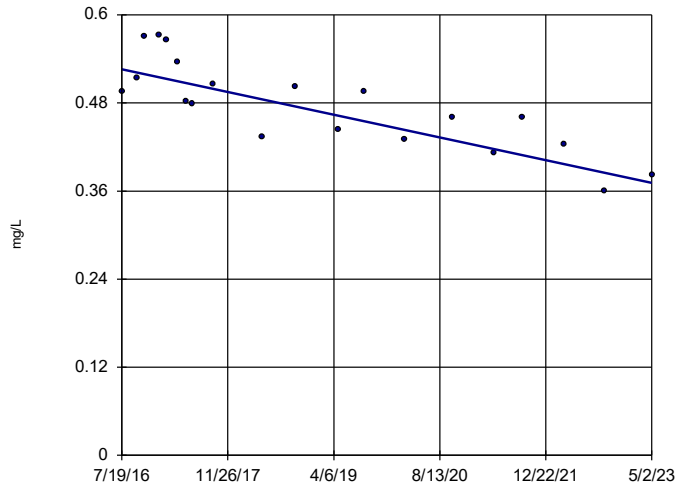


n = 20
 Slope = 0.01214 units per year.
 Mann-Kendall statistic = 98
 critical = 81
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

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

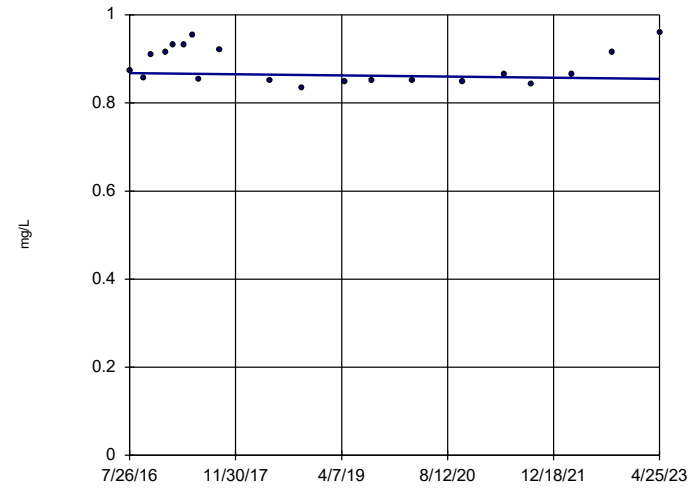


n = 20
 Slope = -0.02278
 units per year.
 Mann-Kendall
 statistic = -127
 critical = -81
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

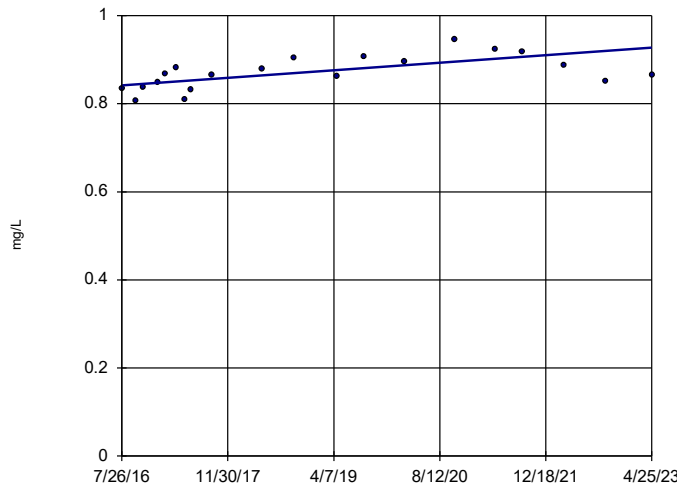


n = 20
 Slope = -0.002017
 units per year.
 Mann-Kendall
 statistic = -24
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

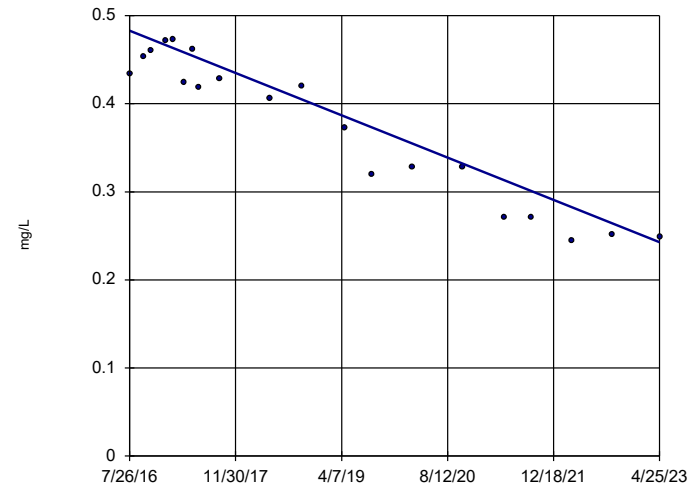


n = 20
 Slope = 0.01273
 units per year.
 Mann-Kendall
 statistic = 86
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

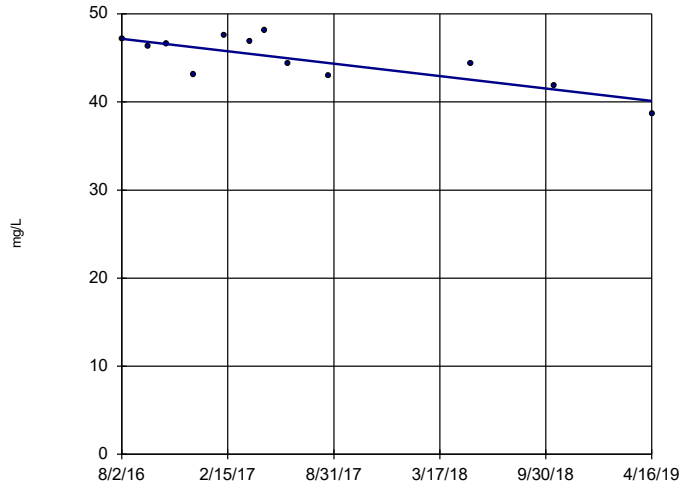


n = 20
 Slope = -0.03554
 units per year.
 Mann-Kendall
 statistic = -144
 critical = -81
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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)

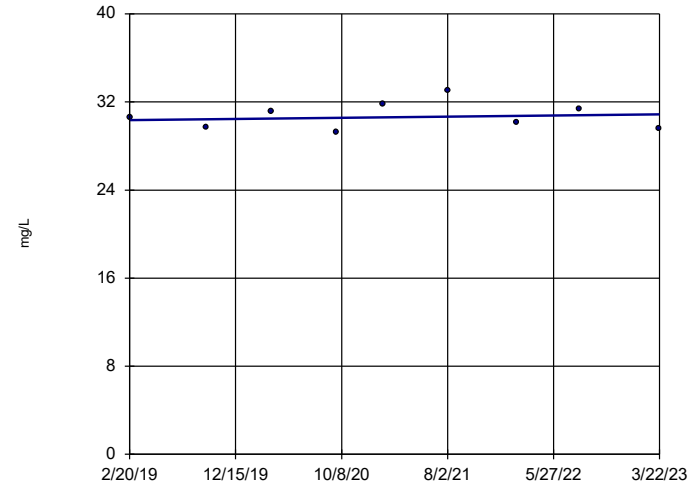


n = 12
 Slope = -2.607 units per year.
 Mann-Kendall statistic = -32
 critical = -38
 Trend not significant at 99% confidence level (α = 0.005 per tail).

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)

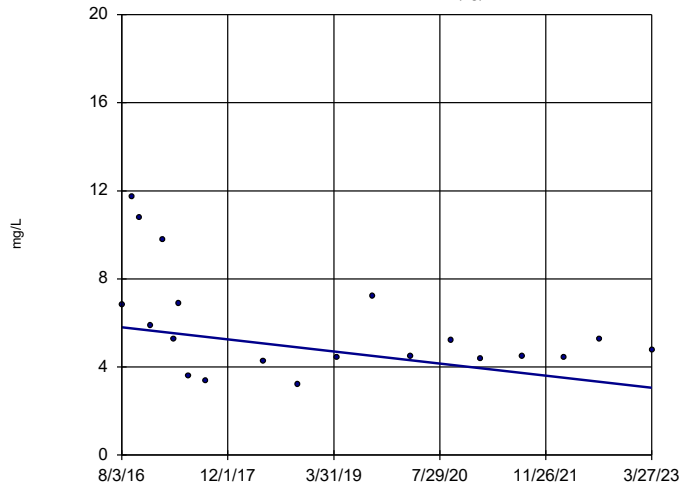


n = 9
 Slope = 0.1233 units per year.
 Mann-Kendall statistic = 2
 critical = 25
 Trend not significant at 99% confidence level (α = 0.005 per tail).

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)

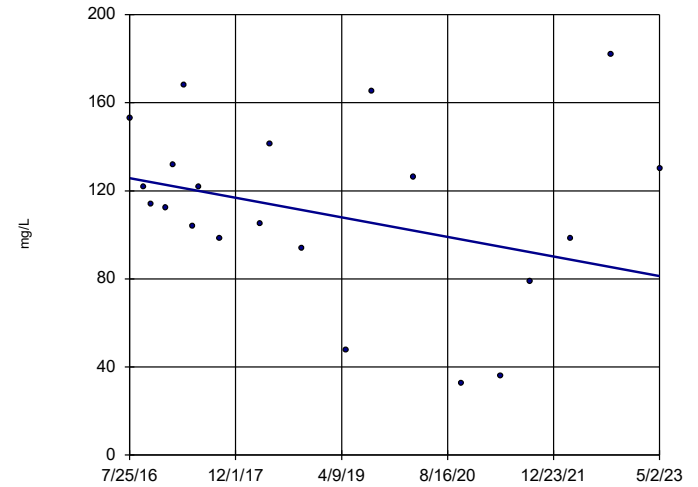


n = 20
 Slope = -0.414 units per year.
 Mann-Kendall statistic = -55
 critical = -81
 Trend not significant at 99% confidence level (α = 0.005 per tail).

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

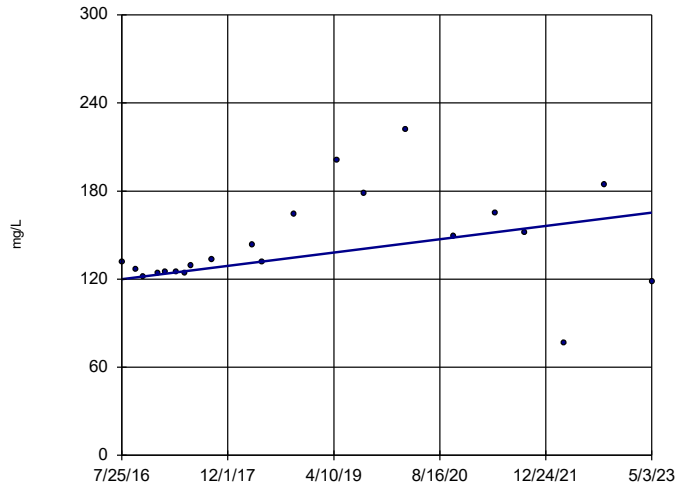


n = 21
 Slope = -6.554 units per year.
 Mann-Kendall statistic = -41
 critical = -87
 Trend not significant at 99% confidence level (α = 0.005 per tail).

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

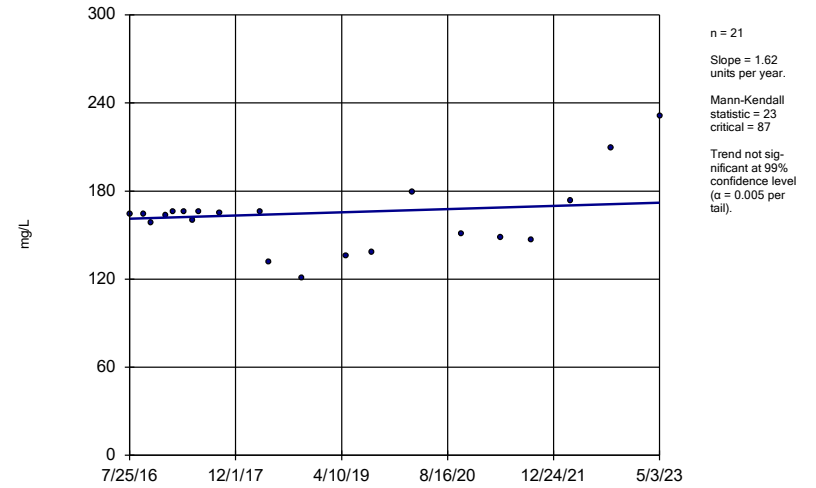
MR-AP-MW-10



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

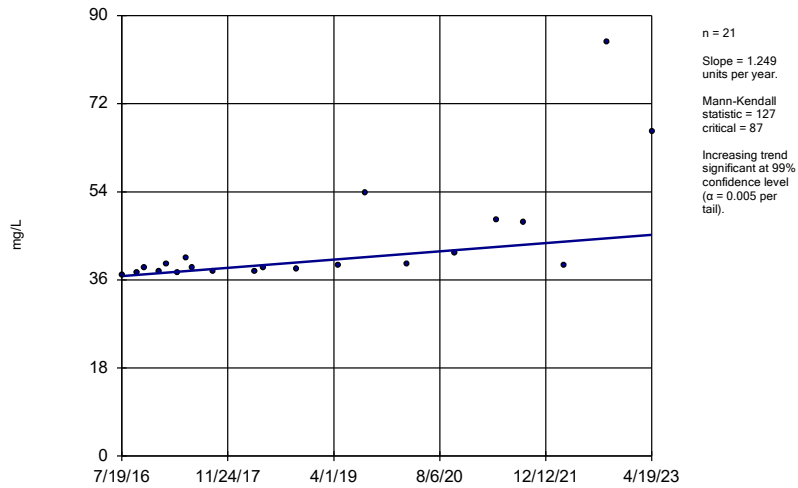
MR-AP-MW-11



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

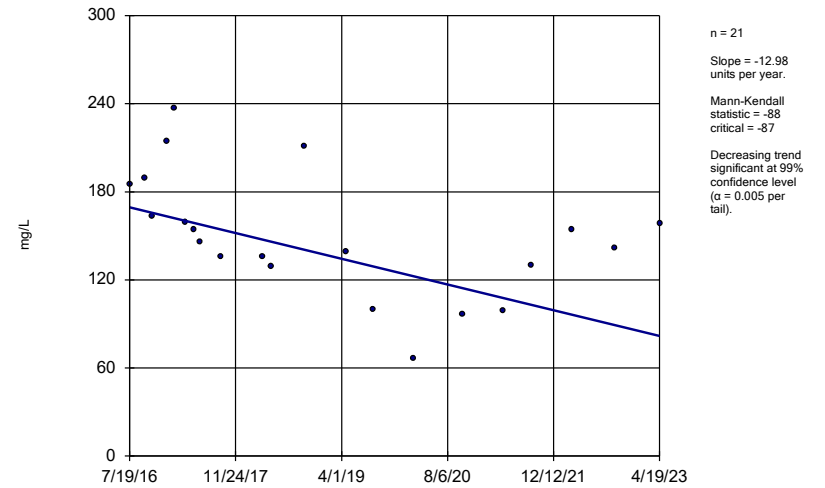
MR-AP-MW-15



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

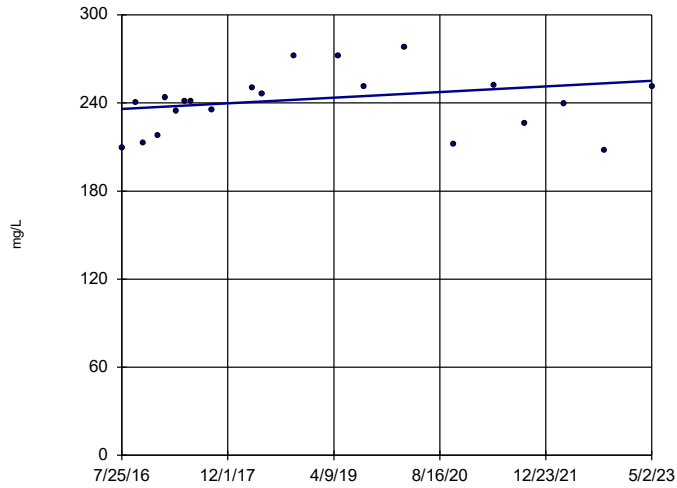
MR-AP-MW-16



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

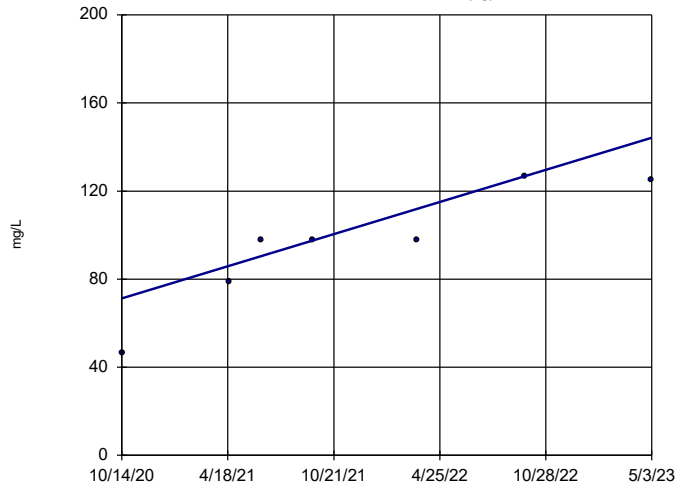
Sen's Slope Estimator

MR-AP-MW-2



Sen's Slope Estimator

MR-AP-MW-22S (bg)

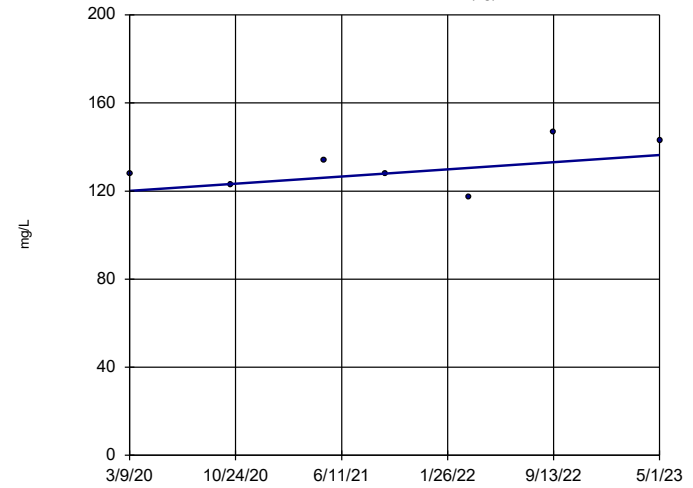


n = 7
 Slope = 28.63
 units per year.
 Mann-Kendall
 statistic = 15
 critical = 18
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

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-23 (bg)

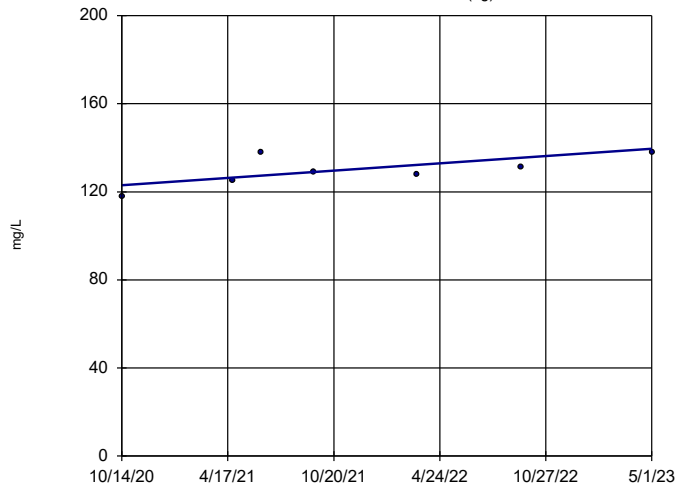


n = 7
 Slope = 5.19
 units per year.
 Mann-Kendall
 statistic = 6
 critical = 18
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

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-23A (bg)

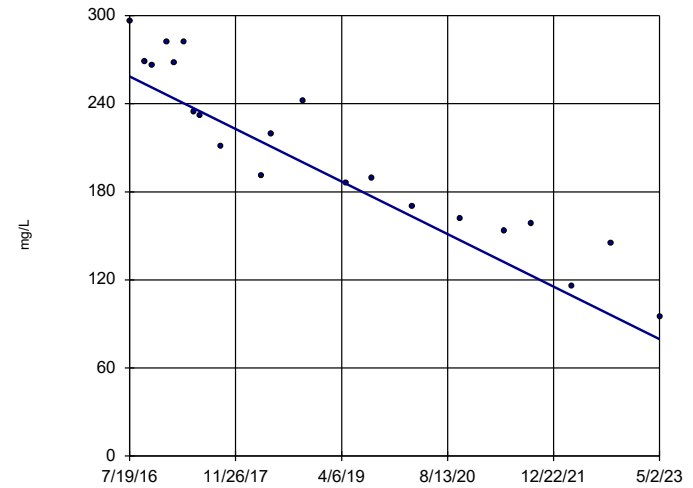


n = 7
 Slope = 6.465
 units per year.
 Mann-Kendall
 statistic = 12
 critical = 18
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

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-3D

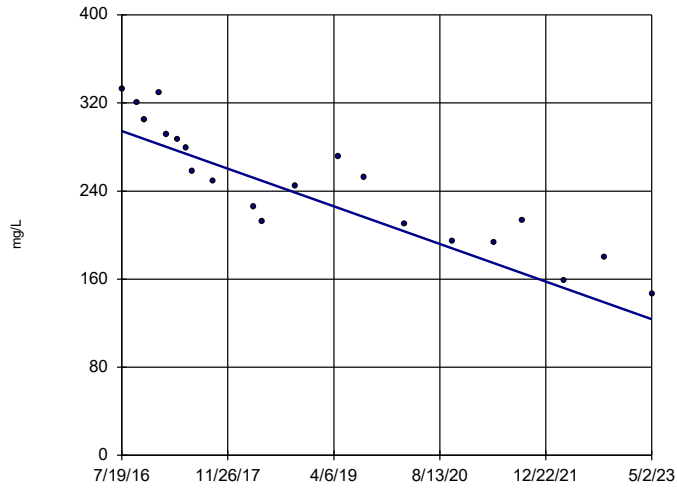


n = 21
 Slope = -26.36
 units per year.
 Mann-Kendall
 statistic = -177
 critical = -87
 Decreasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

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-4

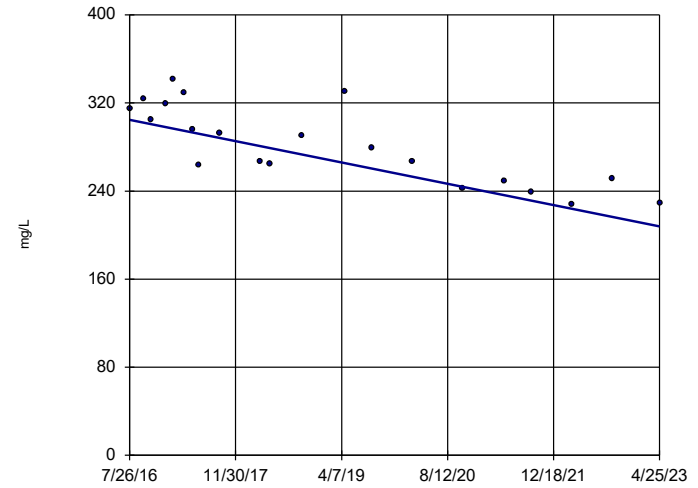


n = 21
 Slope = -25.16
 units per year.
 Mann-Kendall
 statistic = -174
 critical = -87
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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-5

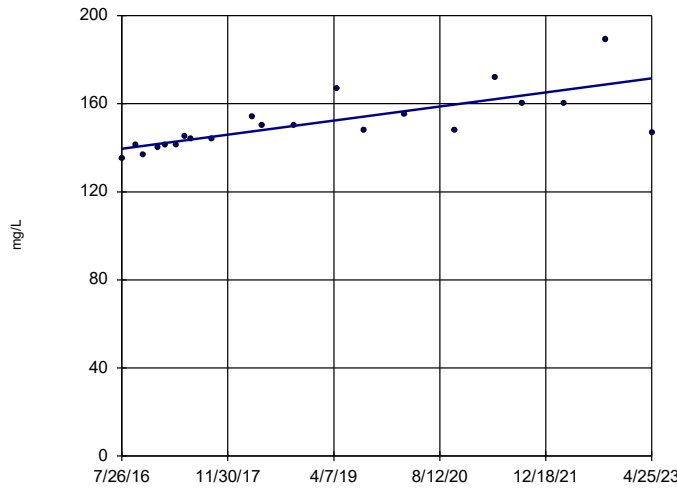


n = 21
 Slope = -14.33
 units per year.
 Mann-Kendall
 statistic = -131
 critical = -87
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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-6

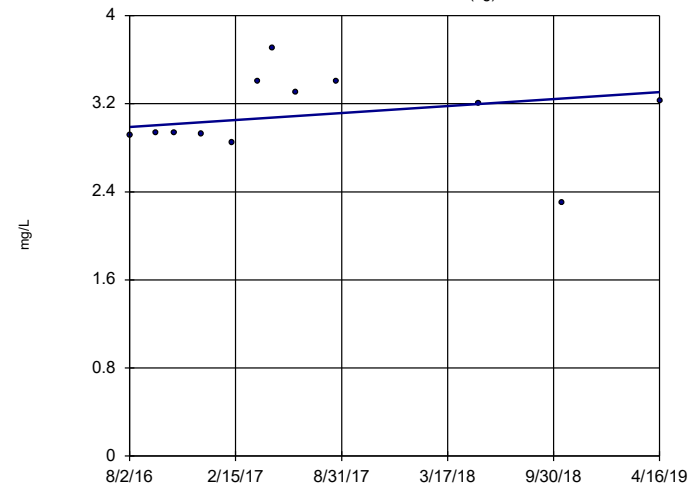


n = 21
 Slope = 4.73
 units per year.
 Mann-Kendall
 statistic = 141
 critical = 87
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

GS-AP-MW-13 (bg)

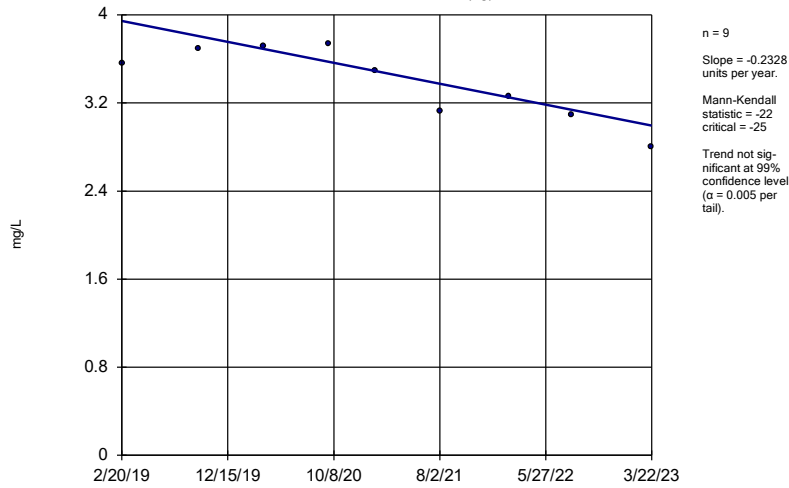


n = 12
 Slope = 0.1178
 units per year.
 Mann-Kendall
 statistic = 10
 critical = 38
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride, Total Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

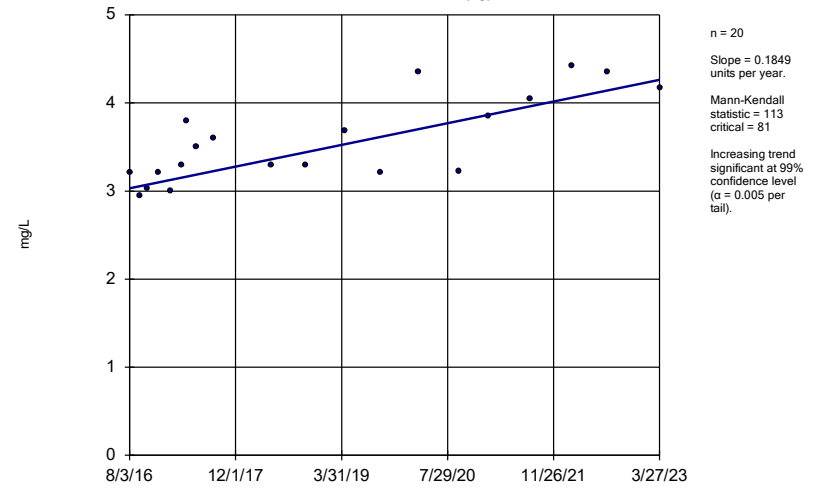
GS-AP-MW-17V (bg)



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

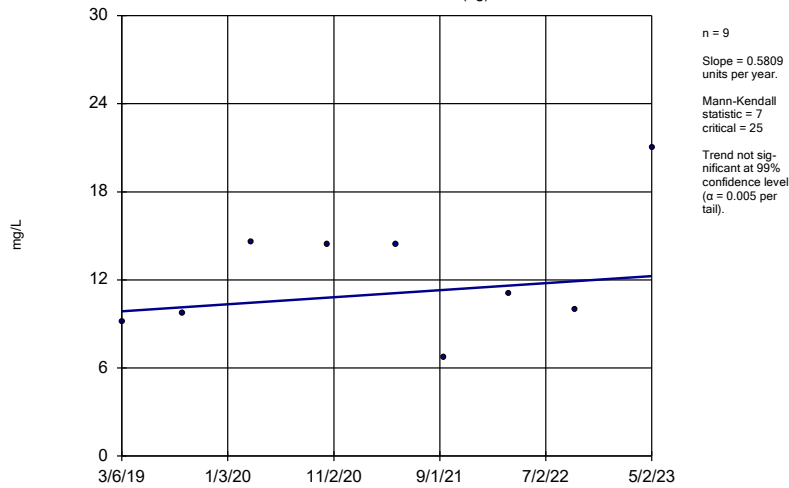
GS-AP-MW-8 (bg)



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

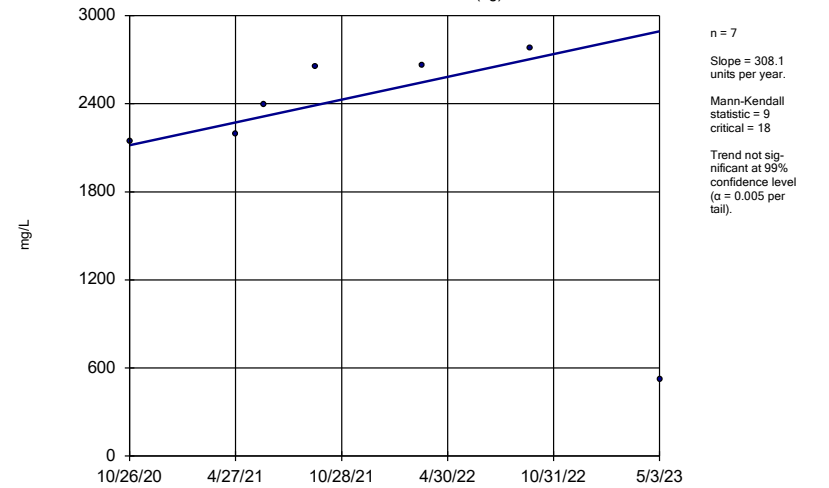
MR-AP-MW-21 (bg)



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

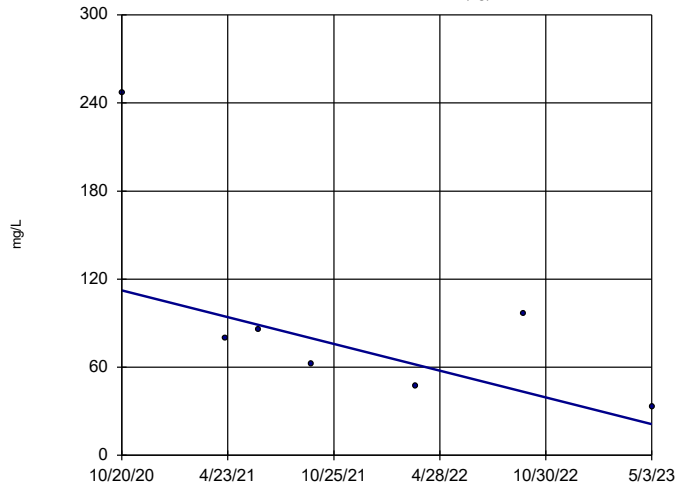
MR-AP-MW-22D (bg)



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)

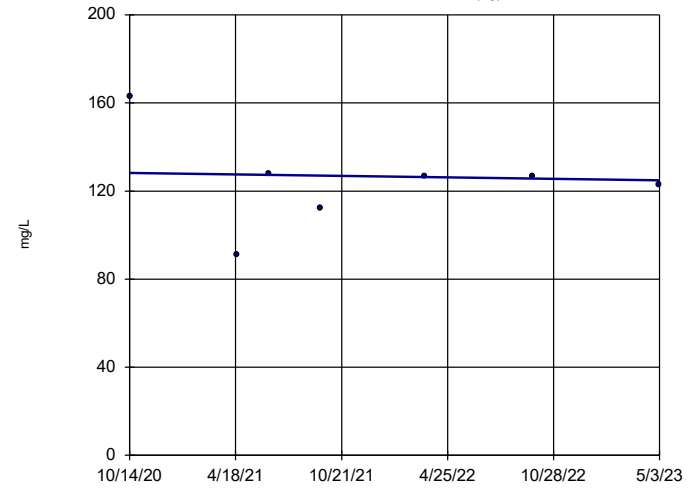


n = 7
 Slope = -35.95 units per year.
 Mann-Kendall statistic = -11
 critical = -18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

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)

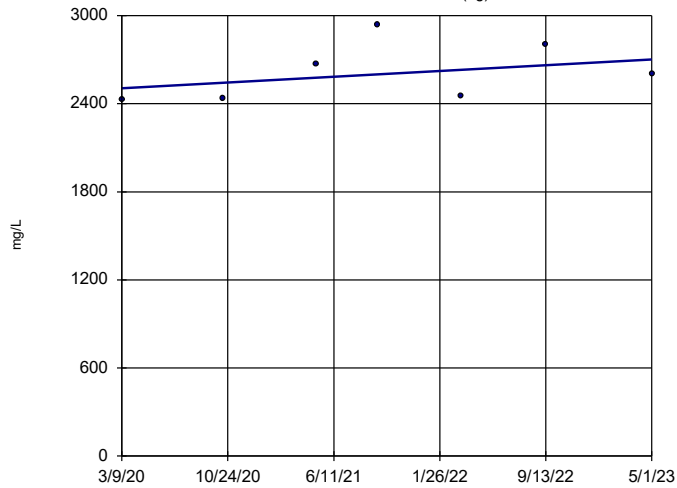


n = 7
 Slope = -1.337 units per year.
 Mann-Kendall statistic = -4
 critical = -18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

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)

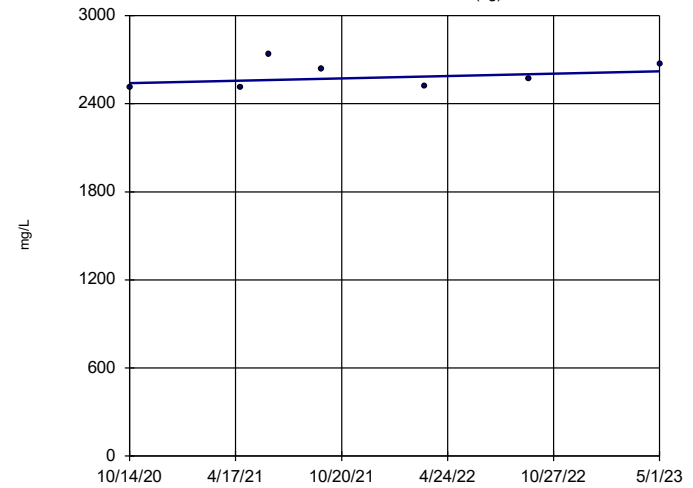


n = 7
 Slope = 62.86 units per year.
 Mann-Kendall statistic = 9
 critical = 18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

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)

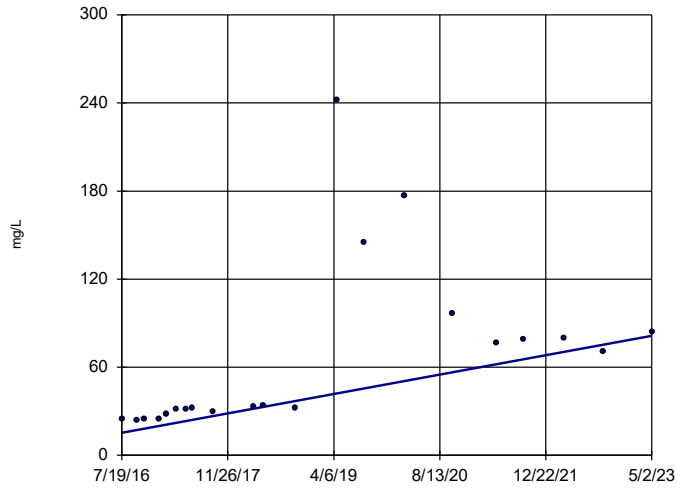


n = 7
 Slope = 31.29 units per year.
 Mann-Kendall statistic = 8
 critical = 18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

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

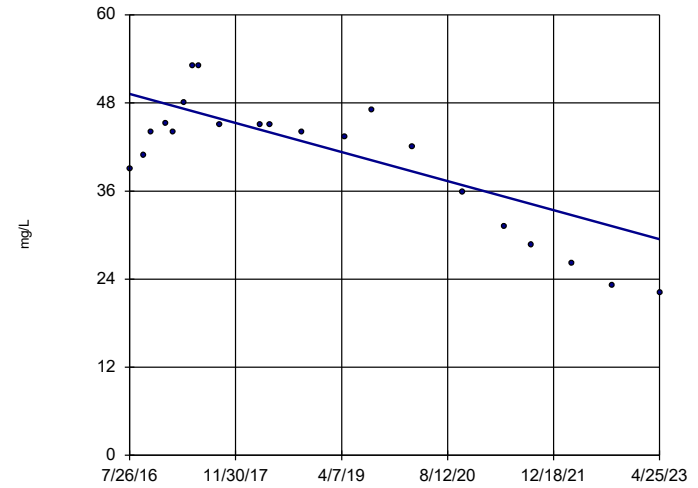


n = 21
 Slope = 9.72
 units per year.
 Mann-Kendall
 statistic = 134
 critical = 87
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

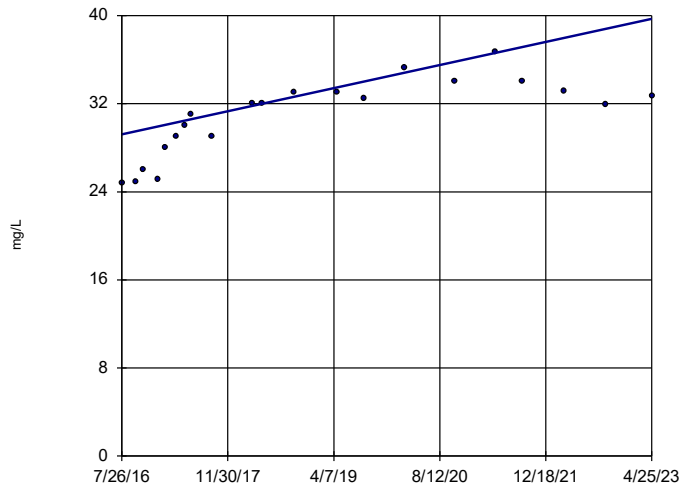


n = 21
 Slope = -2.931
 units per year.
 Mann-Kendall
 statistic = -99
 critical = -87
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

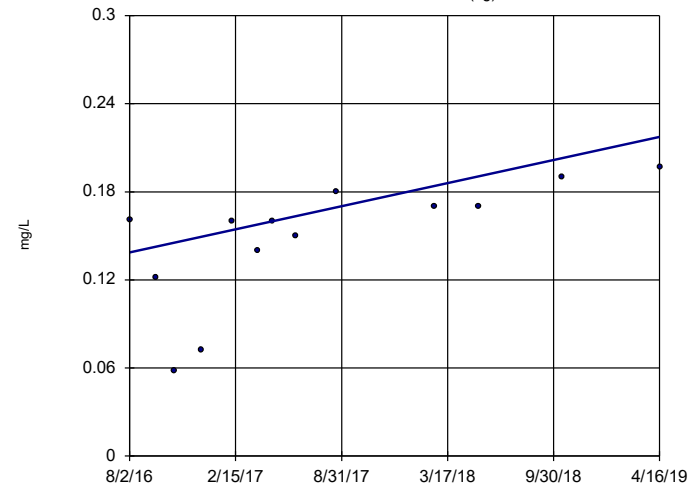


n = 21
 Slope = 1.556
 units per year.
 Mann-Kendall
 statistic = 148
 critical = 87
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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)

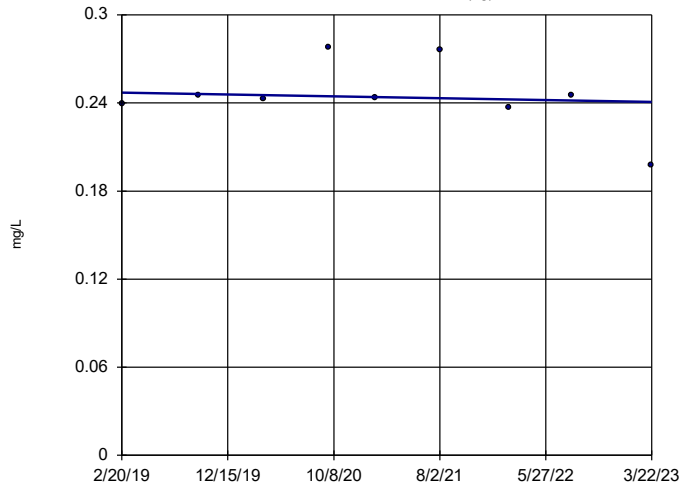


n = 13
 Slope = 0.02914
 units per year.
 Mann-Kendall
 statistic = 48
 critical = 43
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

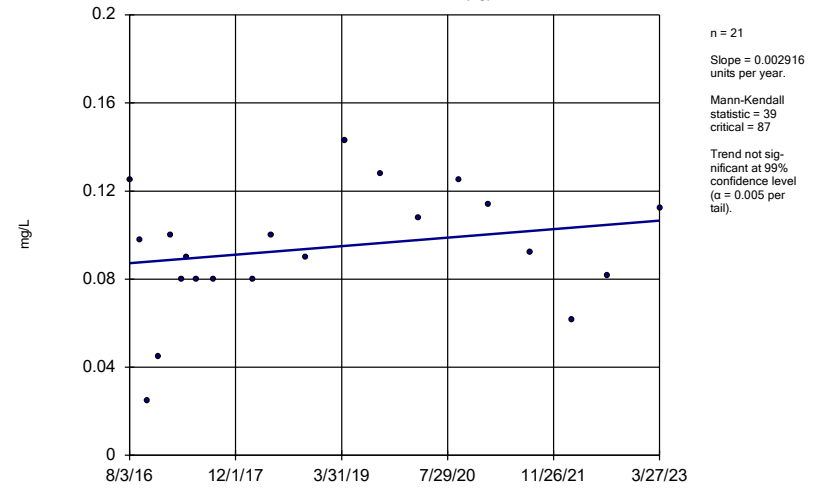
GS-AP-MW-17V (bg)



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

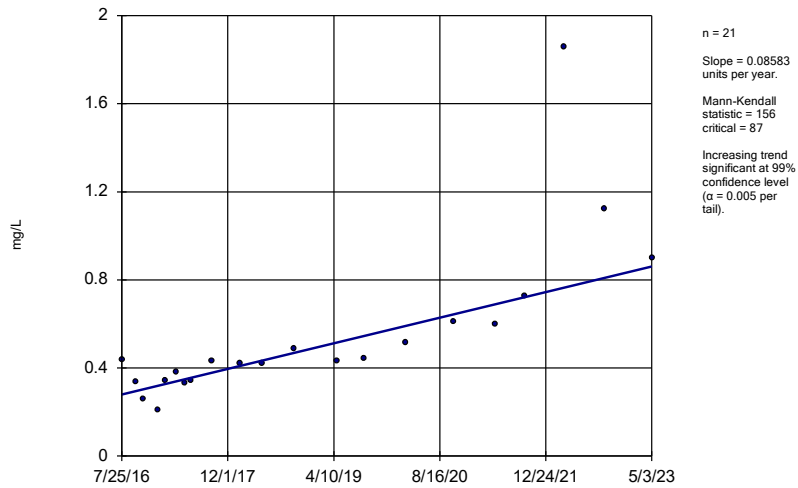
GS-AP-MW-8 (bg)



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

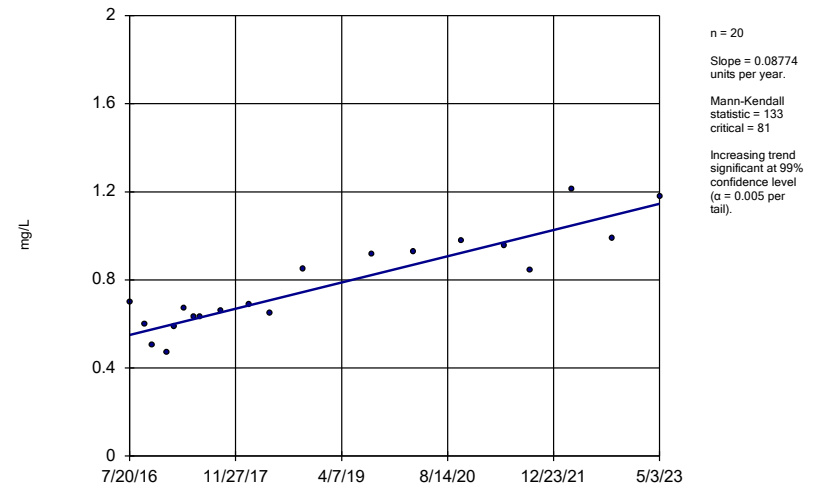
MR-AP-MW-10



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

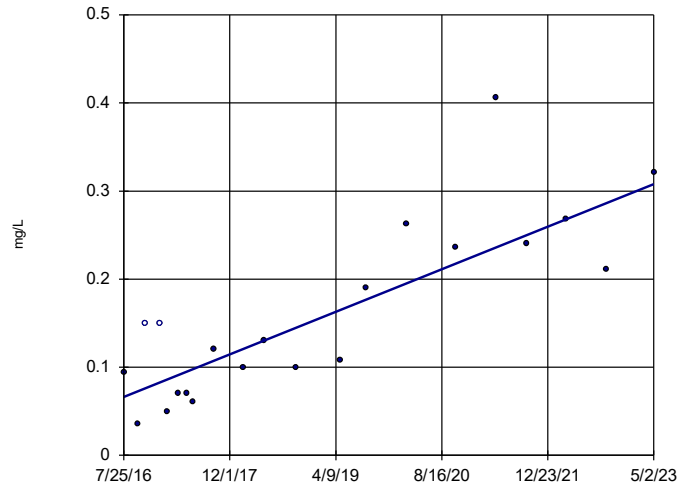
MR-AP-MW-12



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

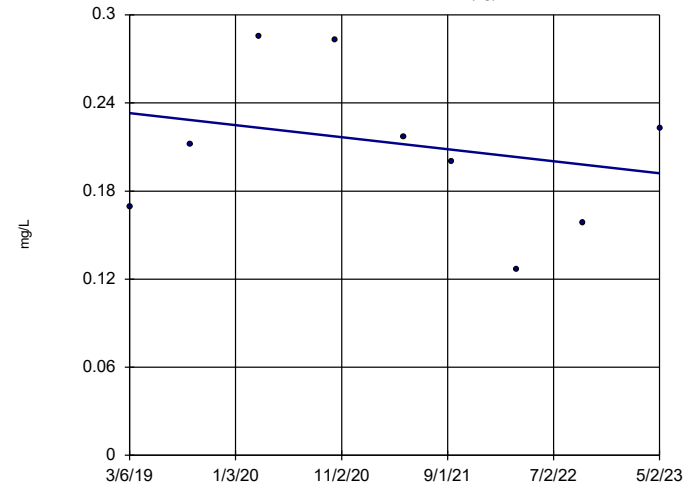


n = 21
 Slope = 0.03571
 units per year.
 Mann-Kendall
 statistic = 127
 critical = 87
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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)

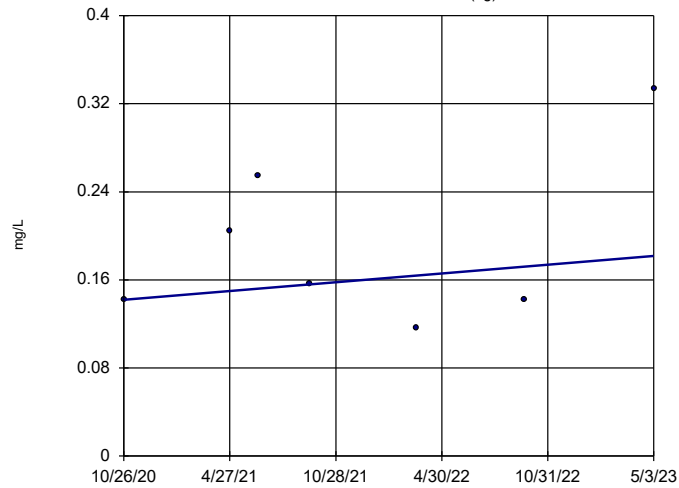


n = 9
 Slope = -0.009852
 units per year.
 Mann-Kendall
 statistic = -6
 critical = -25
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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)

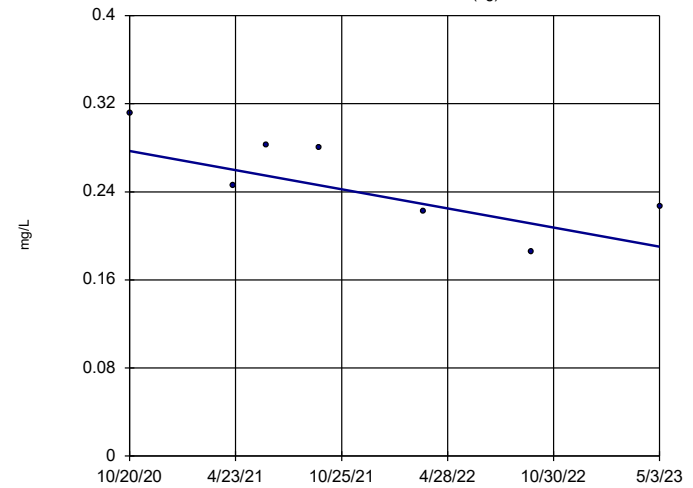


n = 7
 Slope = 0.01582
 units per year.
 Mann-Kendall
 statistic = 2
 critical = 18
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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)

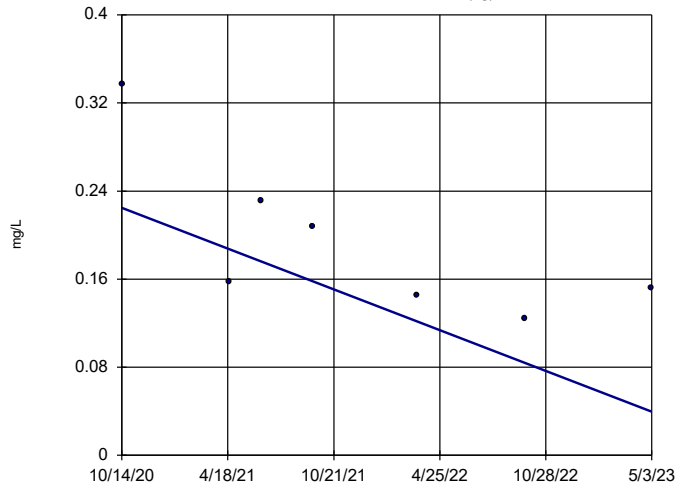


n = 7
 Slope = -0.03429
 units per year.
 Mann-Kendall
 statistic = -13
 critical = -18
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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)

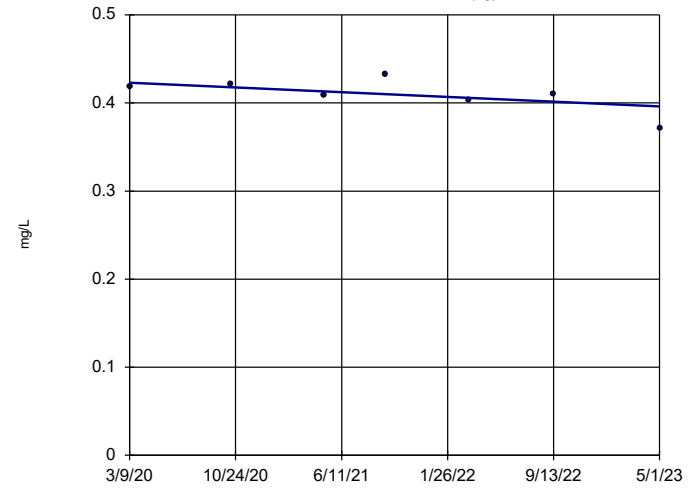


n = 7
 Slope = -0.07253 units per year.
 Mann-Kendall statistic = -13
 critical = -18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

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)

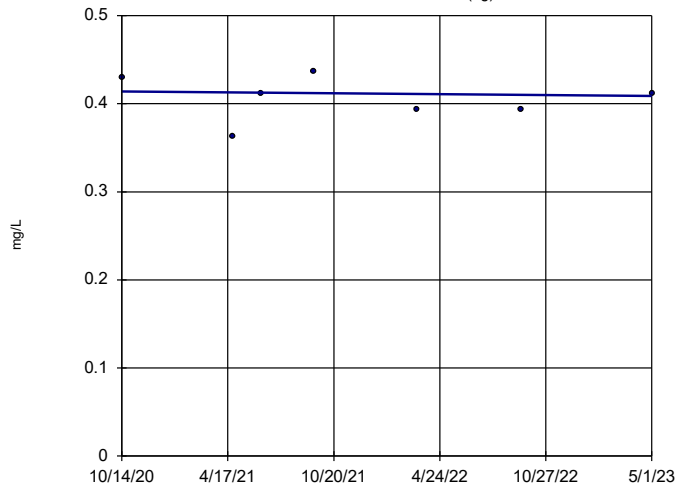


n = 7
 Slope = -0.008649 units per year.
 Mann-Kendall statistic = -9
 critical = -18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

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)

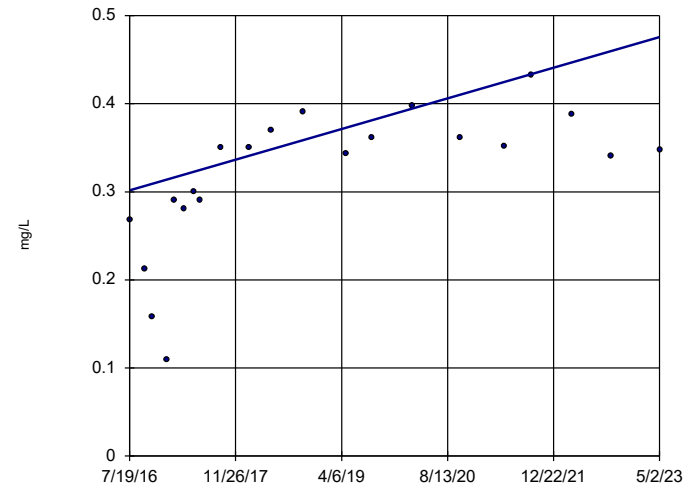


n = 7
 Slope = -0.002005 units per year.
 Mann-Kendall statistic = -2
 critical = -18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

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

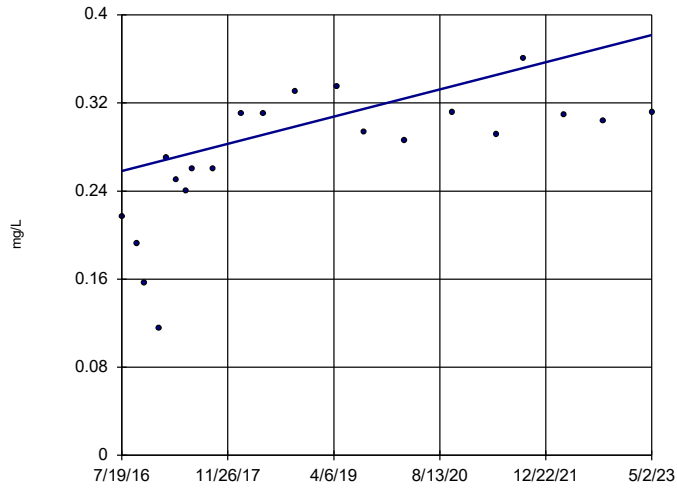


n = 21
 Slope = 0.02561 units per year.
 Mann-Kendall statistic = 116
 critical = 87
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

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

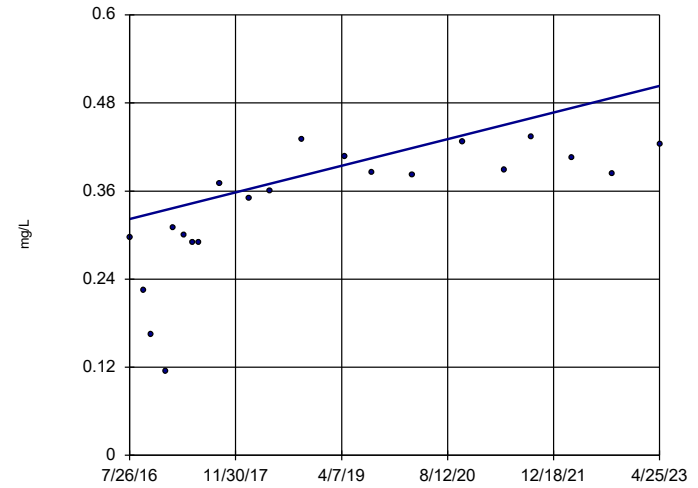


n = 21
 Slope = 0.01818
 units per year.
 Mann-Kendall
 statistic = 119
 critical = 87
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

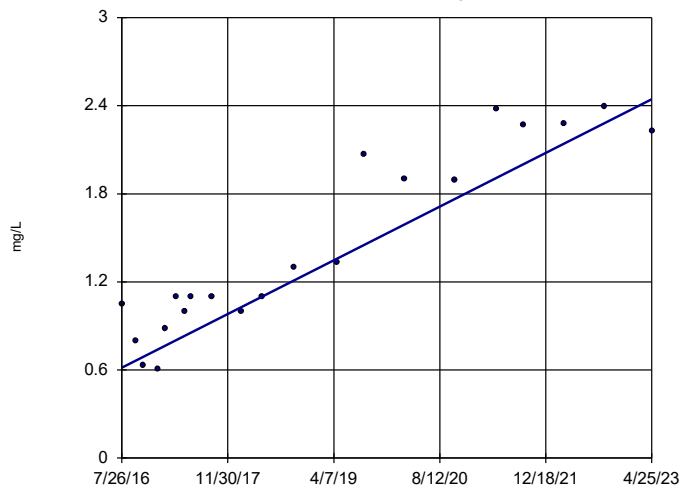


n = 21
 Slope = 0.02684
 units per year.
 Mann-Kendall
 statistic = 131
 critical = 87
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

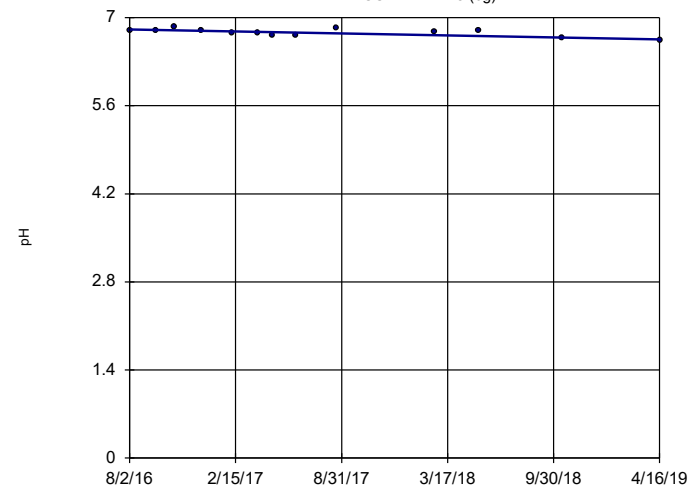


n = 21
 Slope = 0.2706
 units per year.
 Mann-Kendall
 statistic = 159
 critical = 87
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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)

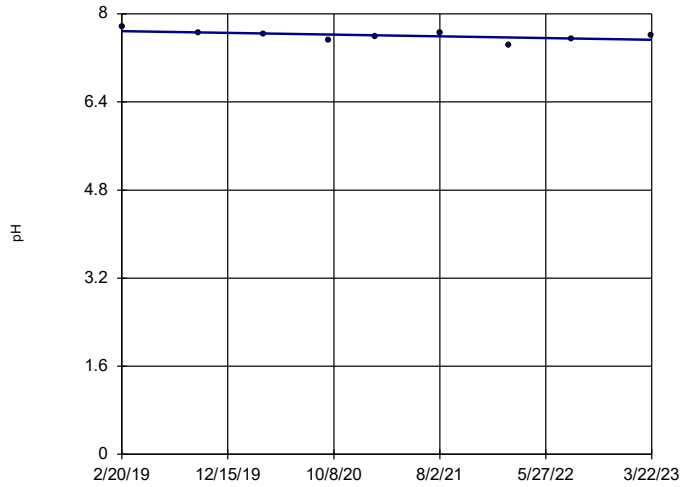


n = 13
 Slope = -0.05825
 units per year.
 Mann-Kendall
 statistic = -34
 critical = -43
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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)

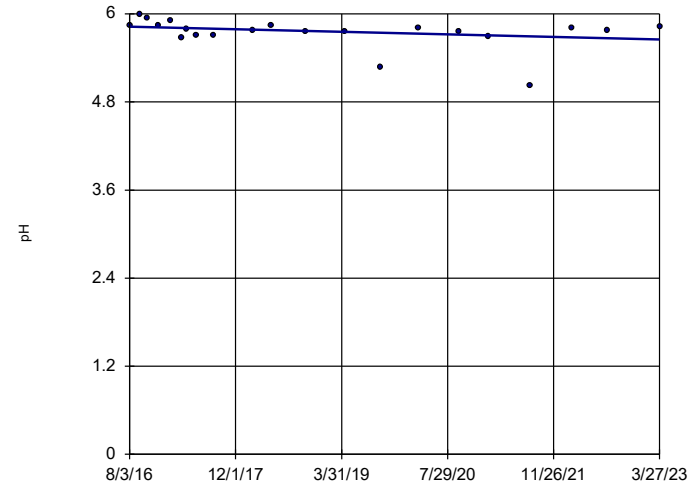


n = 9
 Slope = -0.03831 units per year.
 Mann-Kendall statistic = -15
 critical = -25
 Trend not significant at 99% confidence level (α = 0.005 per tail).

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)

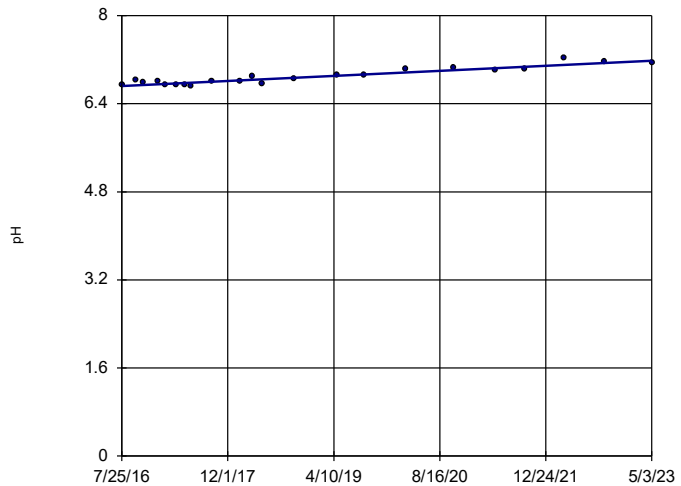


n = 21
 Slope = -0.02608 units per year.
 Mann-Kendall statistic = -65
 critical = -87
 Trend not significant at 99% confidence level (α = 0.005 per tail).

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

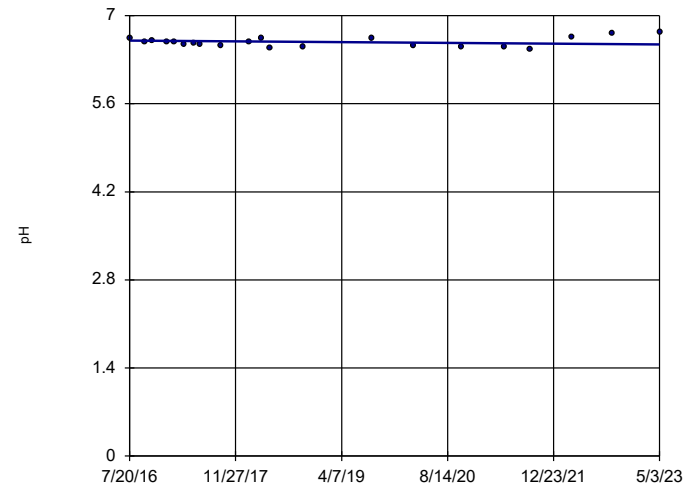


n = 22
 Slope = 0.06711 units per year.
 Mann-Kendall statistic = 157
 critical = 92
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

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

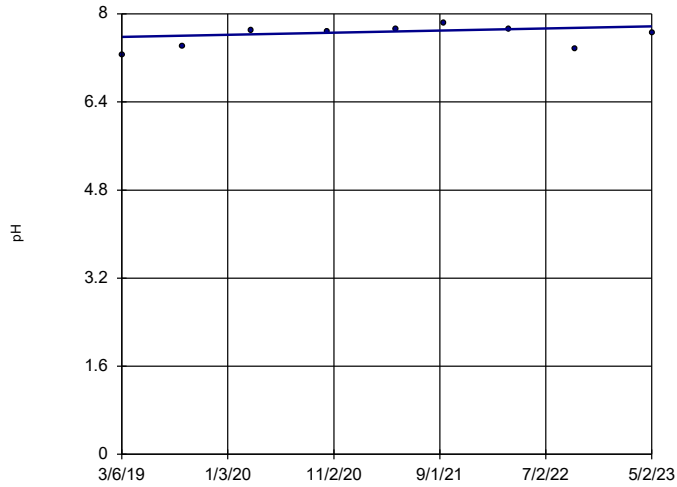


n = 21
 Slope = -0.009366 units per year.
 Mann-Kendall statistic = -22
 critical = -87
 Trend not significant at 99% confidence level (α = 0.005 per tail).

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)

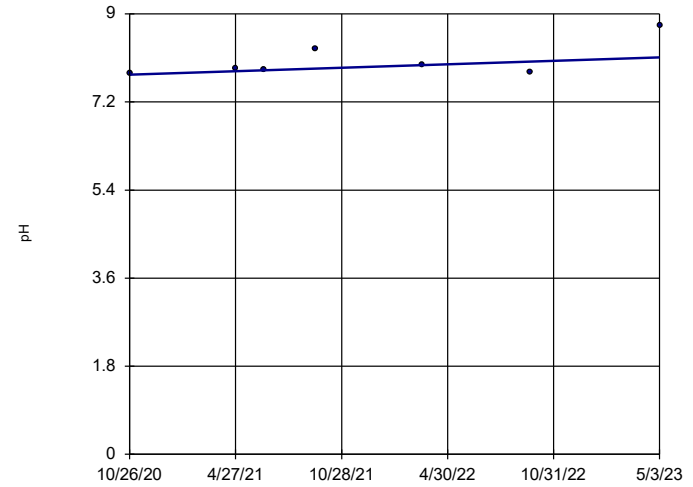


n = 9
 Slope = 0.04529 units per year.
 Mann-Kendall statistic = 8
 critical = 25
 Trend not significant at 99% confidence level (α = 0.005 per tail).

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)

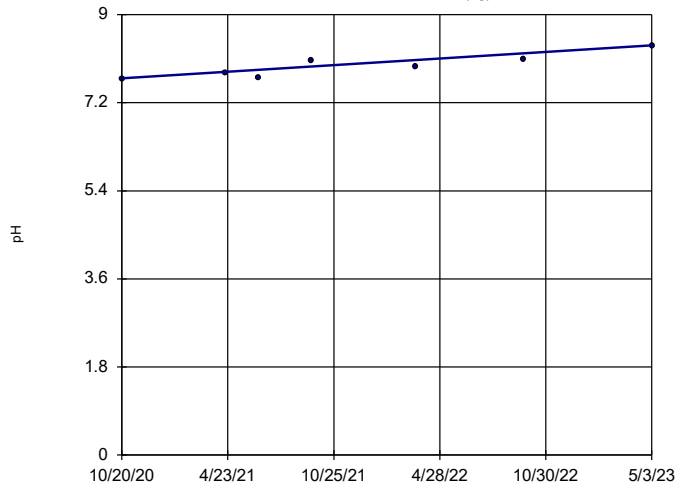


n = 7
 Slope = 0.141 units per year.
 Mann-Kendall statistic = 9
 critical = 18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

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)

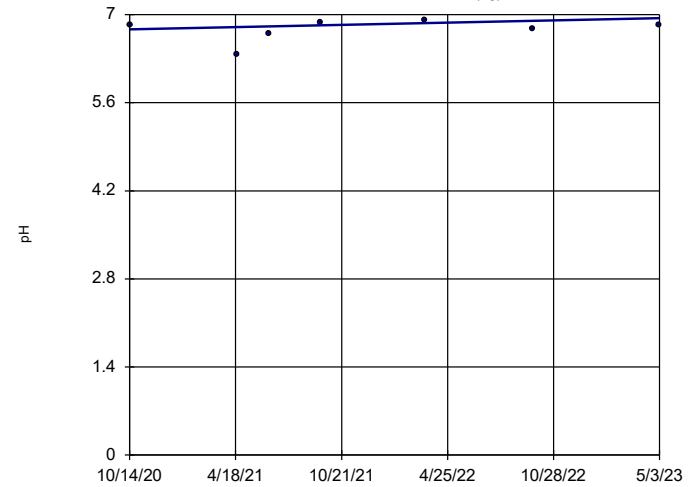


n = 7
 Slope = 0.2644 units per year.
 Mann-Kendall statistic = 17
 critical = 18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

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)

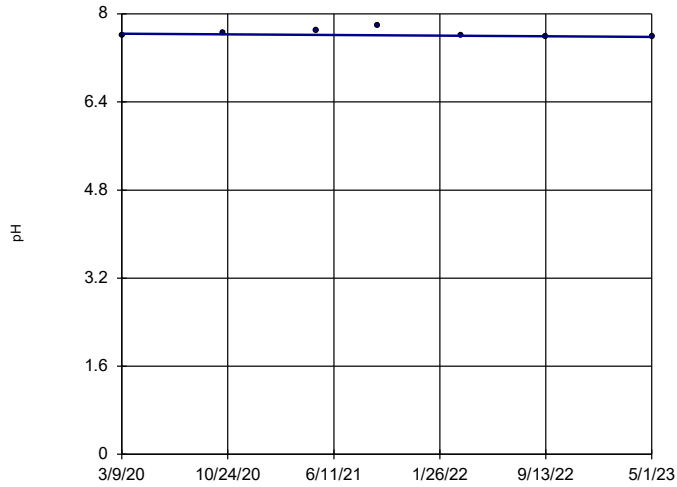


n = 7
 Slope = 0.0711 units per year.
 Mann-Kendall statistic = 5
 critical = 18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

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)

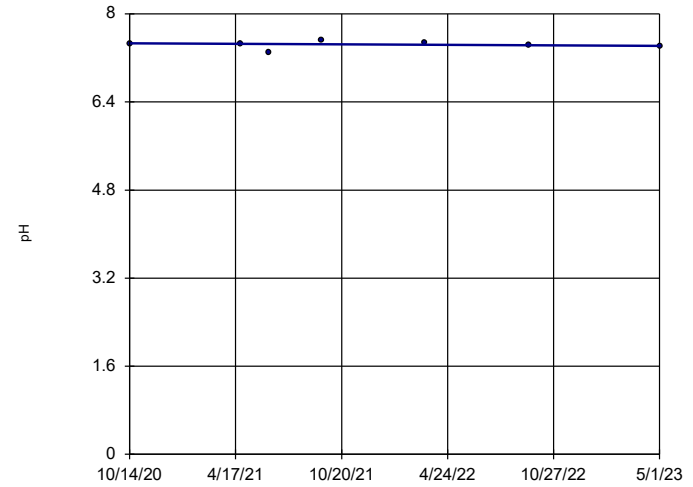


n = 7
 Slope = -0.01772
 units per year.
 Mann-Kendall
 statistic = -6
 critical = -18
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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)

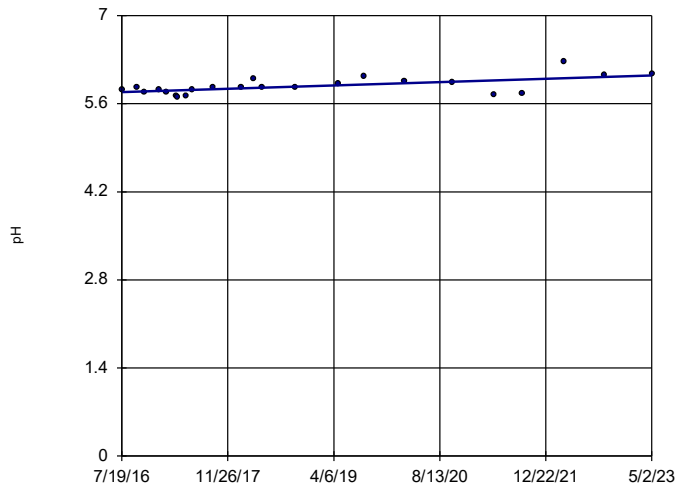


n = 7
 Slope = -0.01872
 units per year.
 Mann-Kendall
 statistic = -5
 critical = -18
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

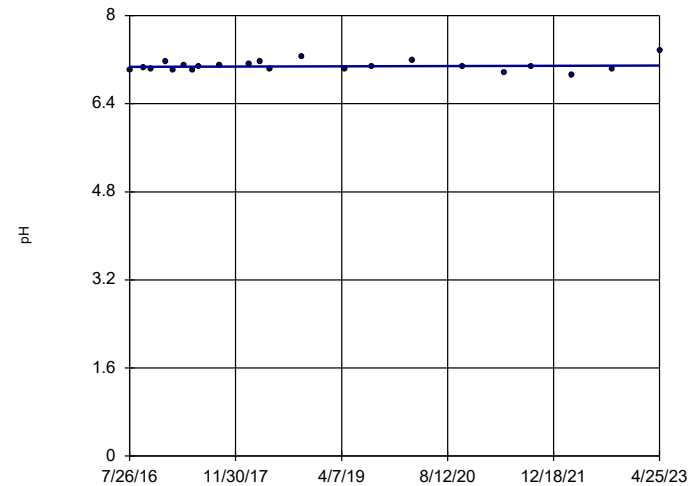


n = 23
 Slope = 0.0386
 units per year.
 Mann-Kendall
 statistic = 114
 critical = 98
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

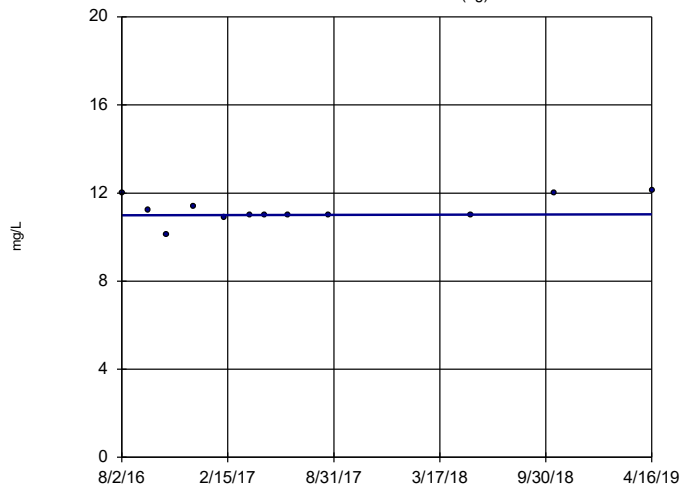


n = 22
 Slope = 0.004042
 units per year.
 Mann-Kendall
 statistic = 21
 critical = 92
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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)

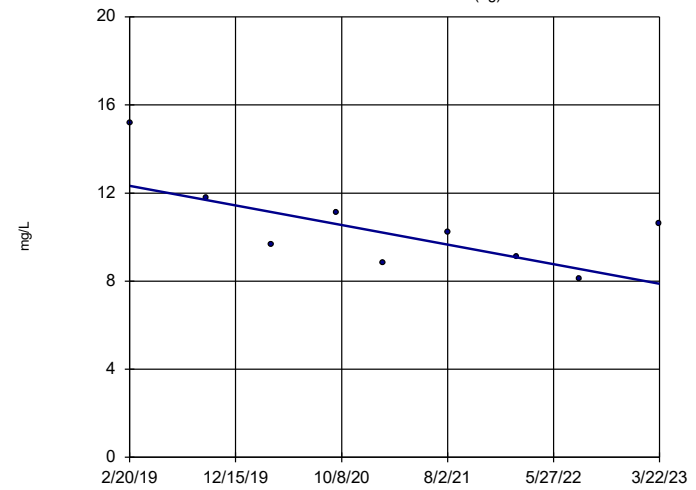


n = 12
 Slope = 0.01849
 units per year.
 Mann-Kendall
 statistic = 11
 critical = 38
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

GS-AP-MW-17V (bg)

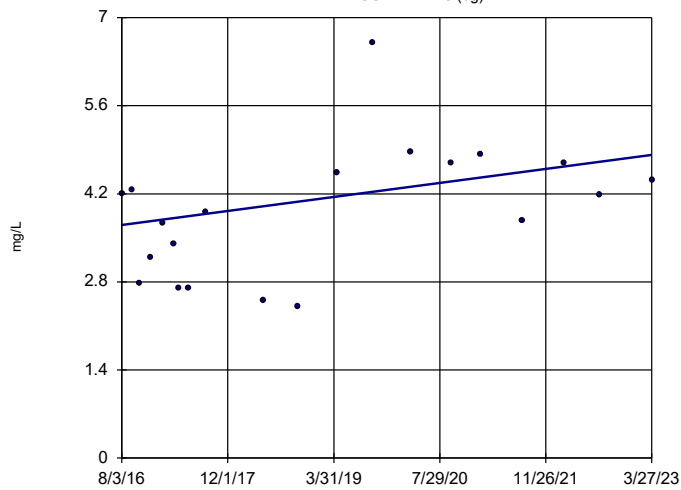


n = 9
 Slope = -1.088
 units per year.
 Mann-Kendall
 statistic = -18
 critical = -25
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

GS-AP-MW-8 (bg)

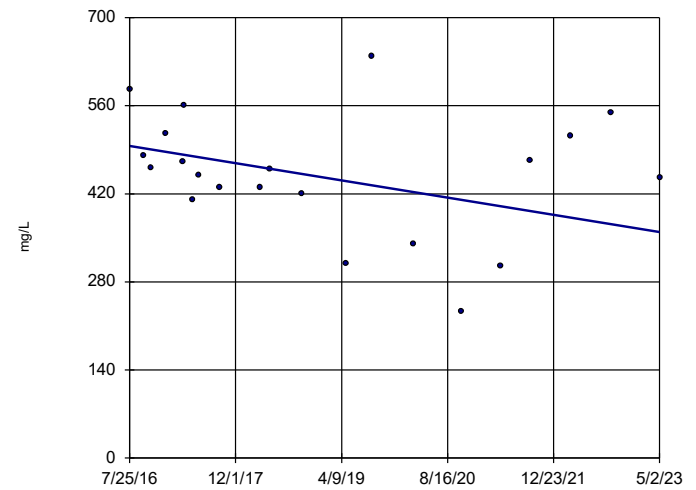


n = 20
 Slope = 0.1674
 units per year.
 Mann-Kendall
 statistic = 43
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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-1

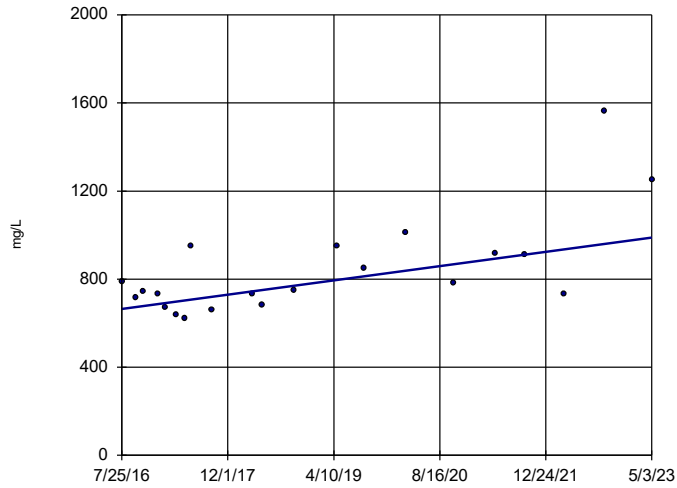


n = 21
 Slope = -20.26
 units per year.
 Mann-Kendall
 statistic = -49
 critical = -87
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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-10

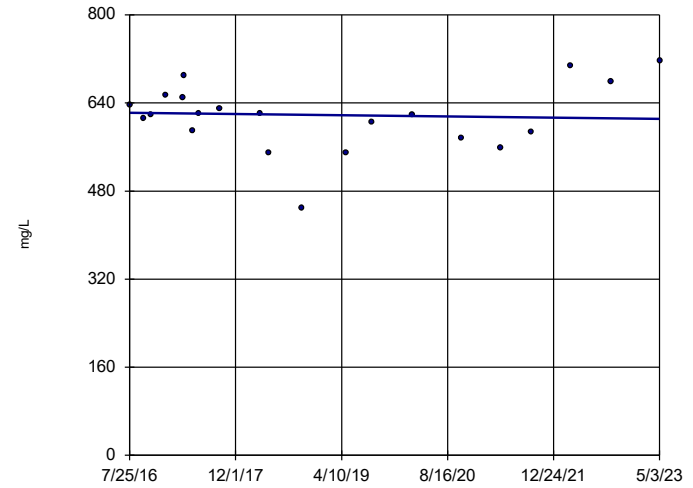


n = 21
 Slope = 47.78
 units per year.
 Mann-Kendall
 statistic = 85
 critical = 87
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

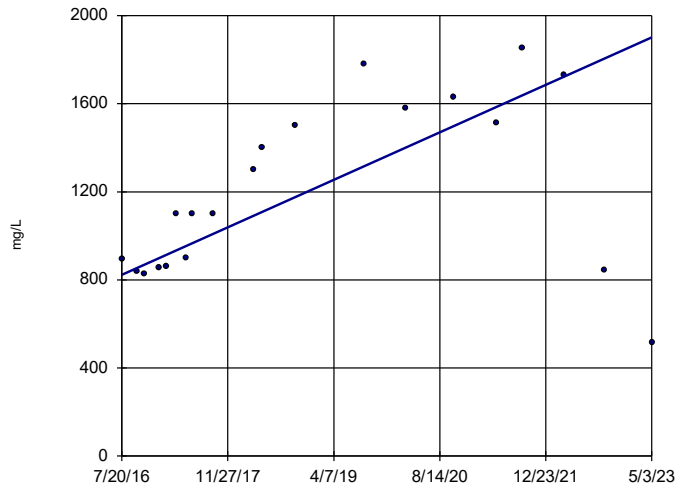


n = 21
 Slope = -1.614
 units per year.
 Mann-Kendall
 statistic = -11
 critical = -87
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

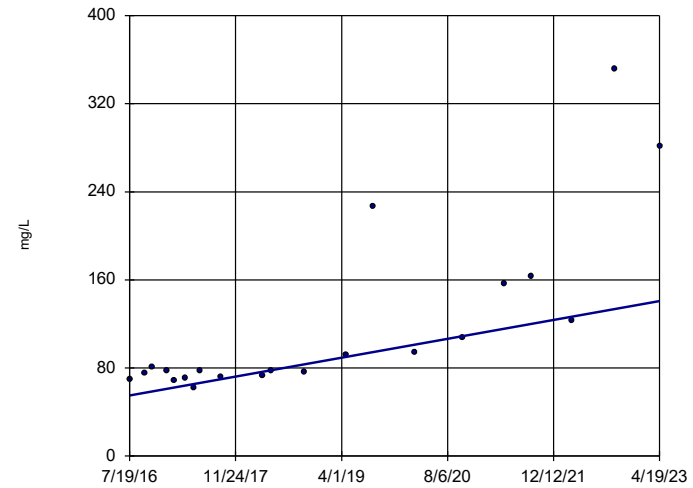


n = 20
 Slope = 158.8
 units per year.
 Mann-Kendall
 statistic = 91
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

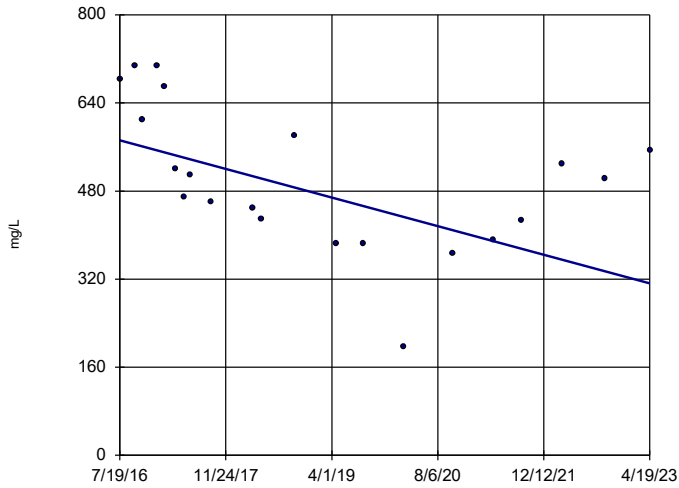


n = 21
 Slope = 12.69
 units per year.
 Mann-Kendall
 statistic = 133
 critical = 87
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

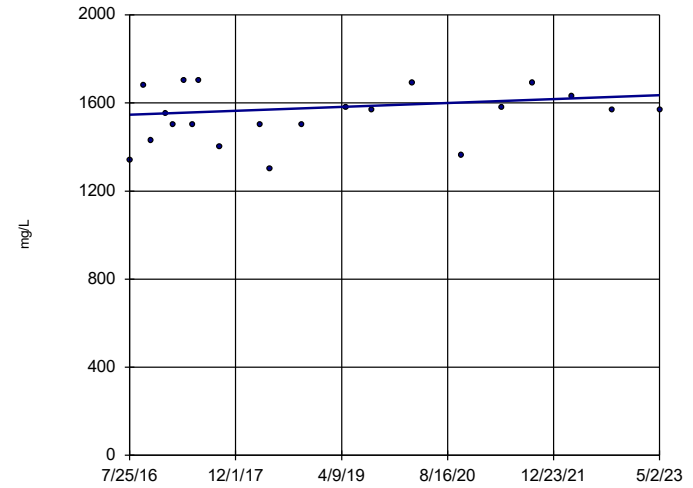


n = 21
 Slope = -38.5
 units per year.
 Mann-Kendall
 statistic = -95
 critical = -87
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

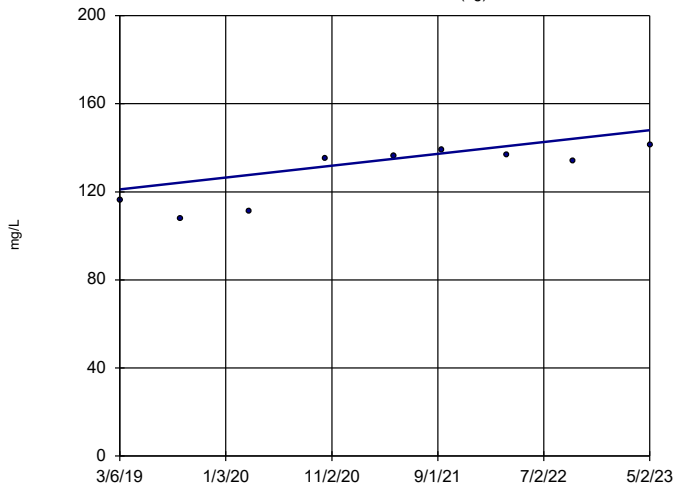


n = 21
 Slope = 13.04
 units per year.
 Mann-Kendall
 statistic = 36
 critical = 87
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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)

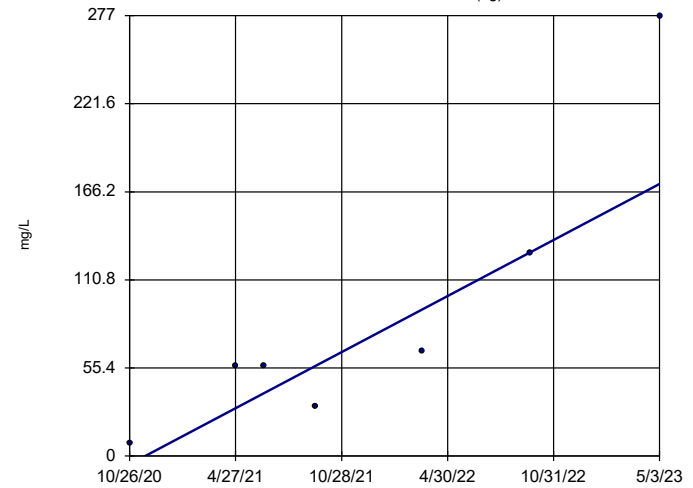


n = 9
 Slope = 6.468
 units per year.
 Mann-Kendall
 statistic = 22
 critical = 25
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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)

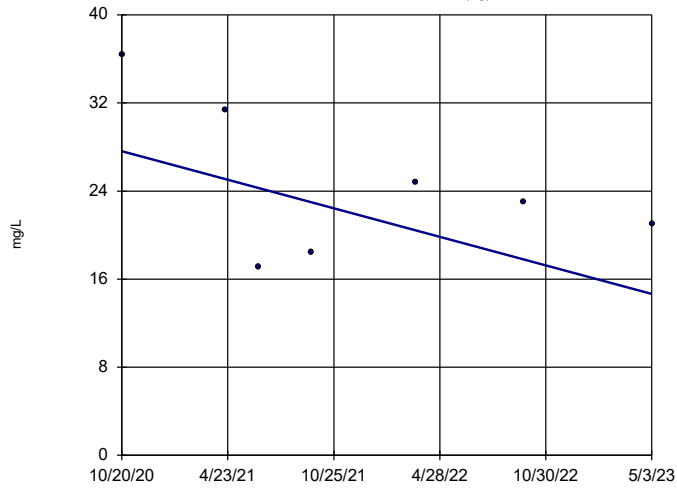


n = 7
 Slope = 70.02
 units per year.
 Mann-Kendall
 statistic = 17
 critical = 18
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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)

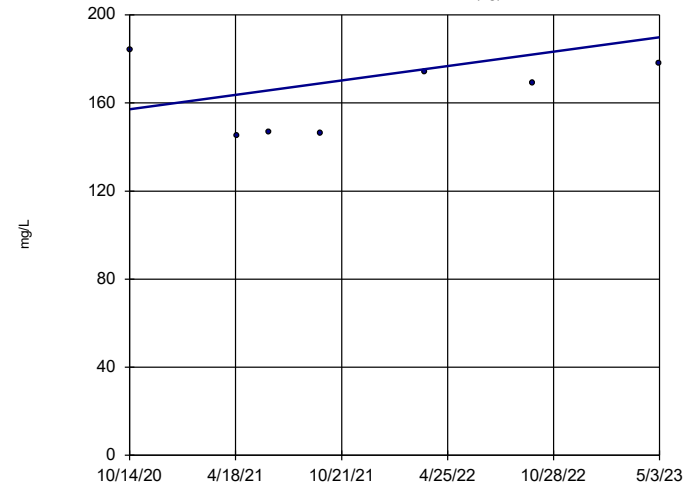


n = 7
 Slope = -5.109 units per year.
 Mann-Kendall statistic = -7
 critical = -18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

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)

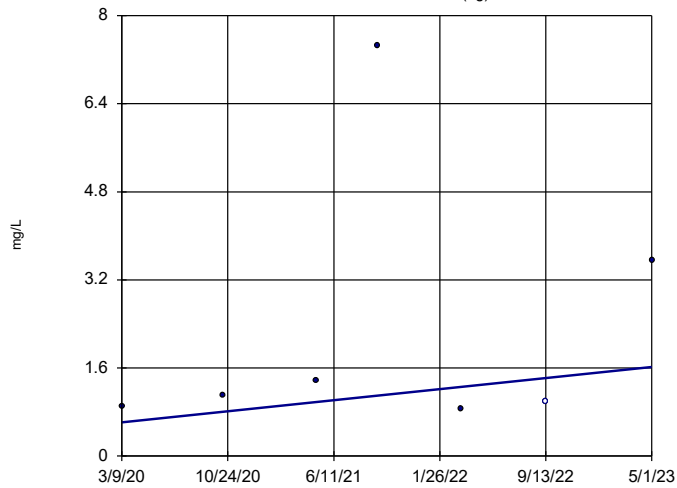


n = 7
 Slope = 12.81 units per year.
 Mann-Kendall statistic = 5
 critical = 18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

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)

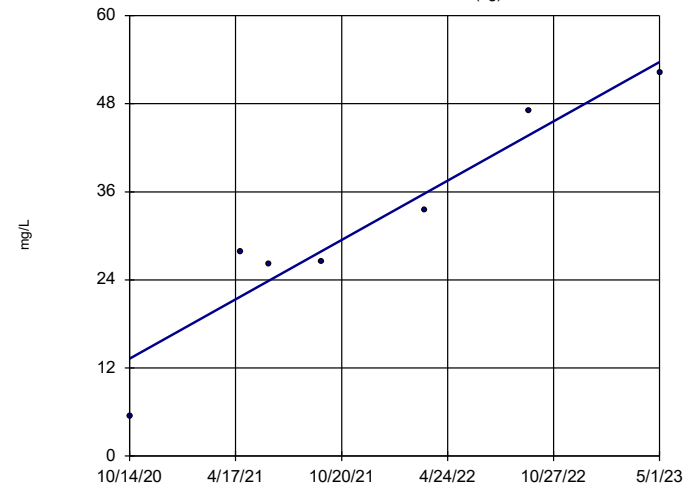


n = 7
 Slope = 0.32 units per year.
 Mann-Kendall statistic = 5
 critical = 18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

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)

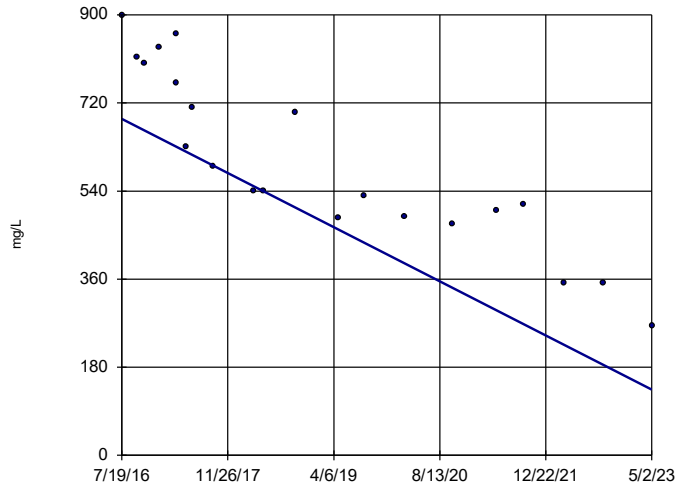


n = 7
 Slope = 15.88 units per year.
 Mann-Kendall statistic = 17
 critical = 18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

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

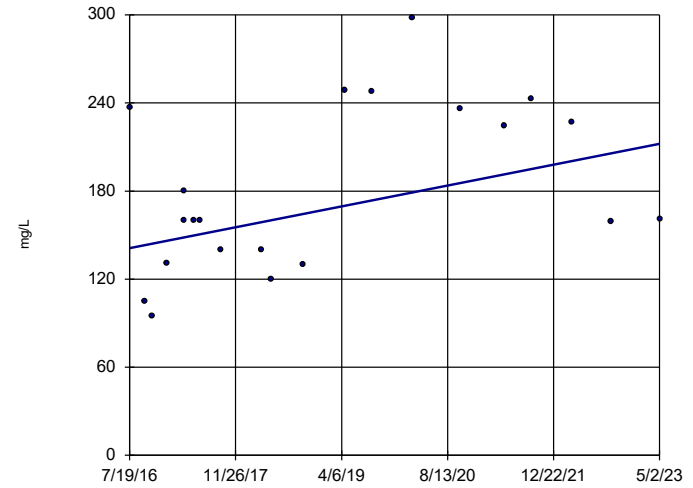


n = 21
 Slope = -81.4
 units per year.
 Mann-Kendall
 statistic = -168
 critical = -87
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

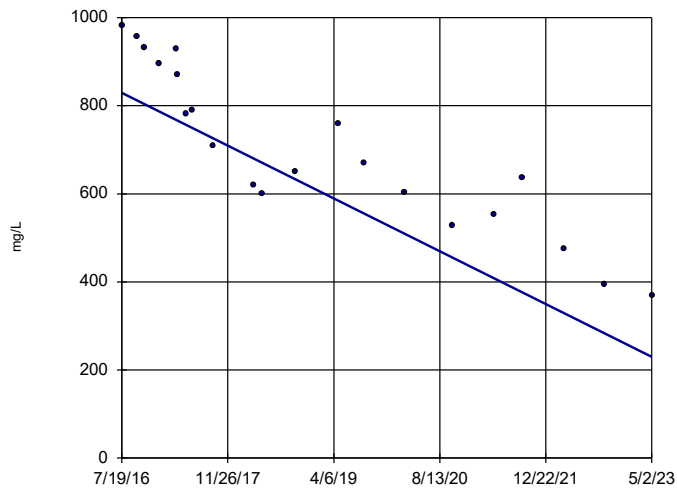


n = 21
 Slope = 10.46
 units per year.
 Mann-Kendall
 statistic = 54
 critical = 87
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

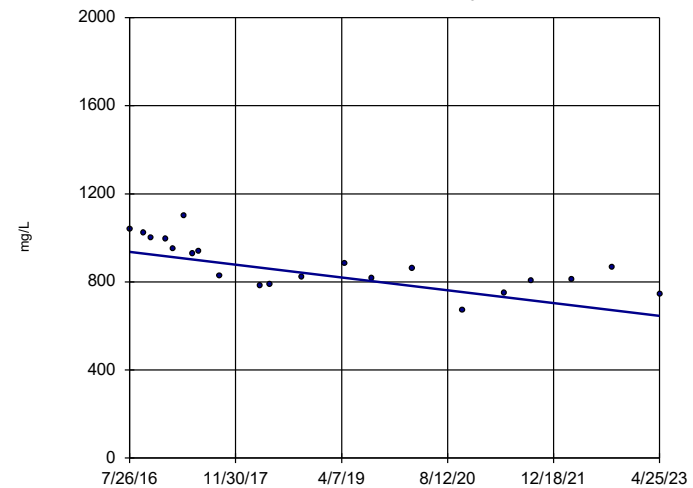


n = 21
 Slope = -88.28
 units per year.
 Mann-Kendall
 statistic = -174
 critical = -87
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

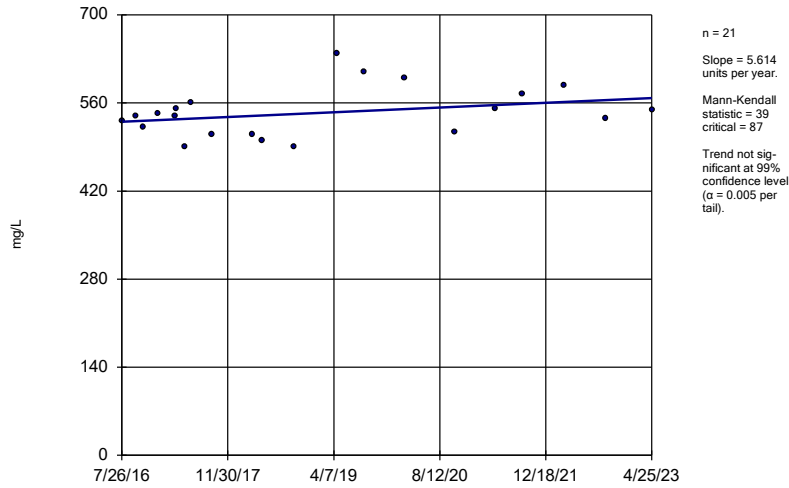


n = 21
 Slope = -42.97
 units per year.
 Mann-Kendall
 statistic = -128
 critical = -87
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

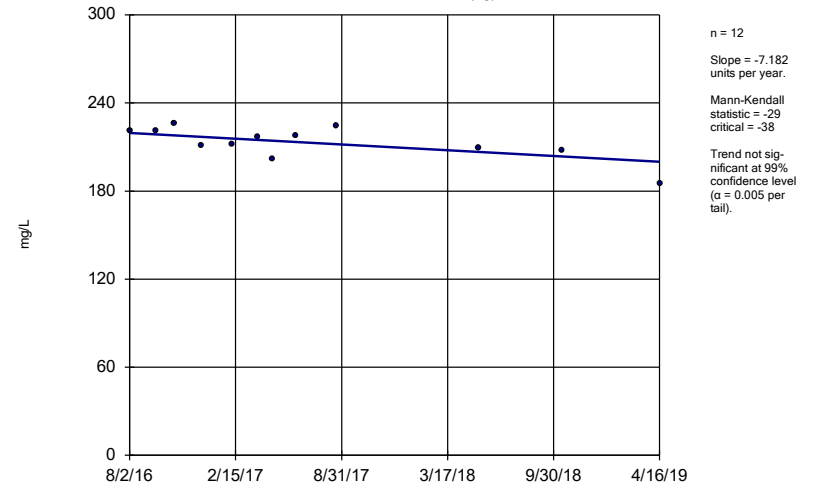
MR-AP-MW-6



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

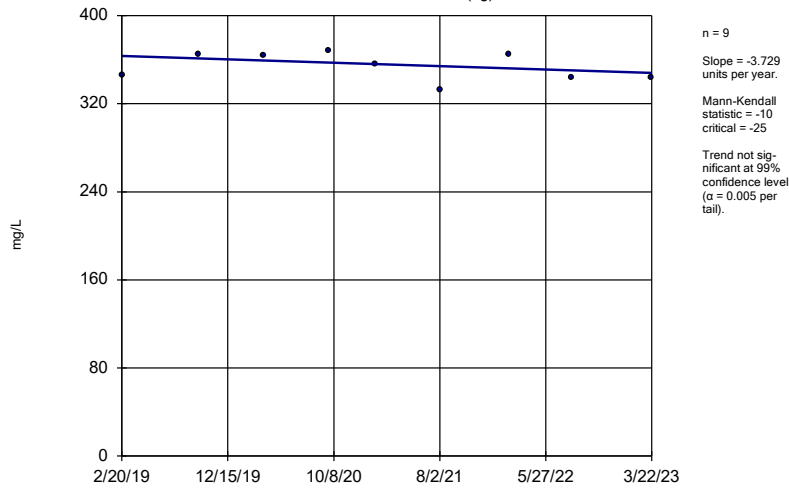
GS-AP-MW-13 (bg)



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

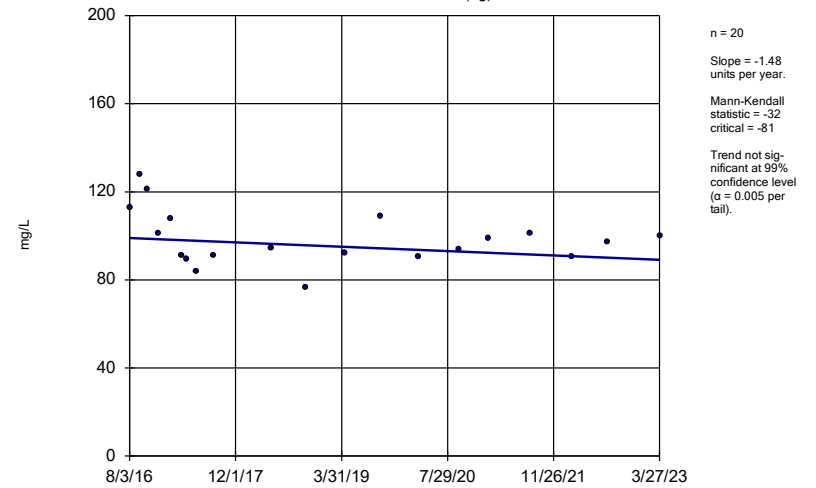
GS-AP-MW-17V (bg)



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

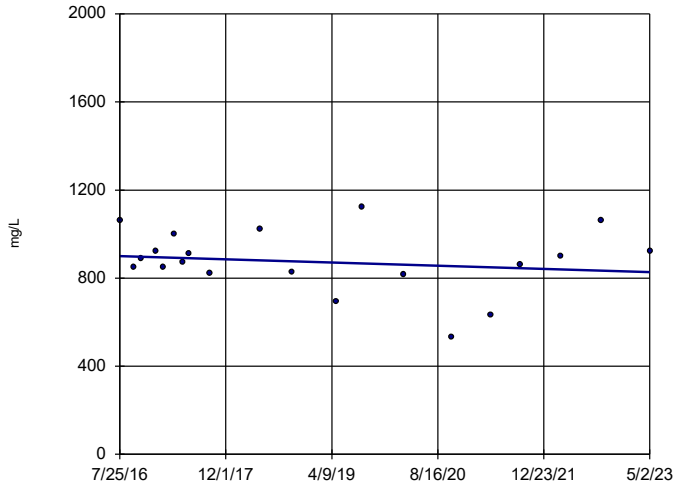
GS-AP-MW-8 (bg)



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

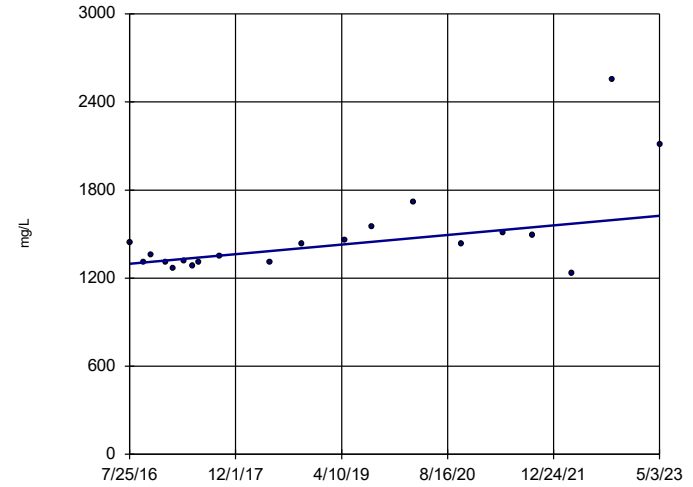


n = 20
 Slope = -10.78
 units per year.
 Mann-Kendall
 statistic = -20
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

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-10

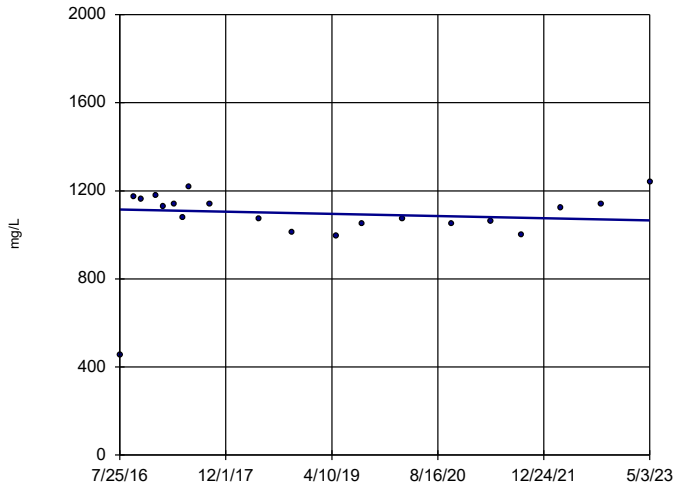


n = 20
 Slope = 48.21
 units per year.
 Mann-Kendall
 statistic = 79
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

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-11

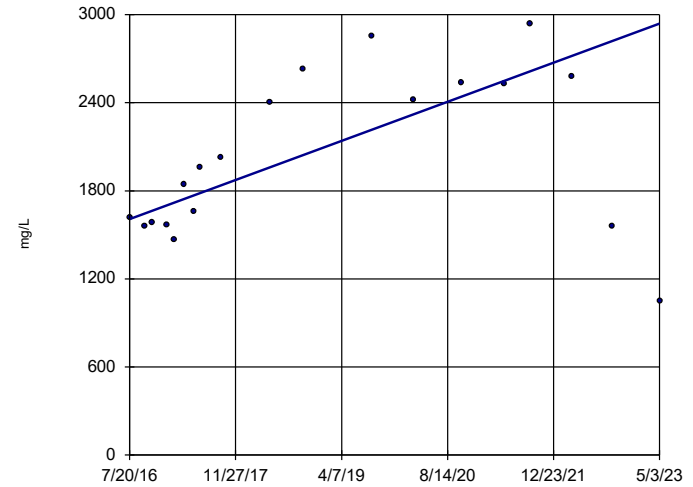


n = 20
 Slope = -7.237
 units per year.
 Mann-Kendall
 statistic = -25
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

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-12

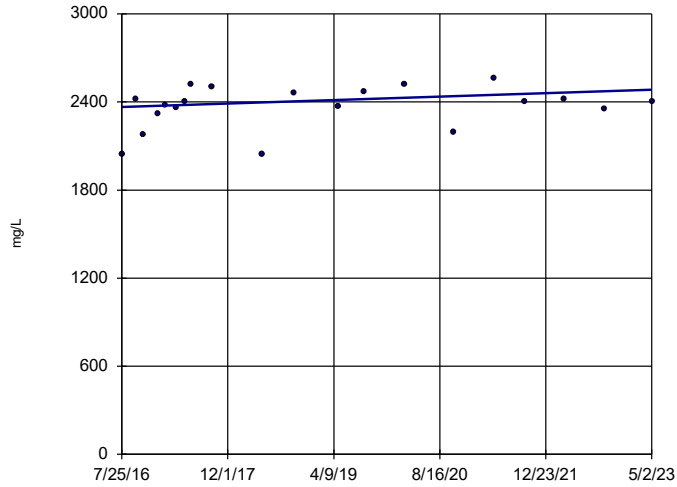


n = 19
 Slope = 196.4
 units per year.
 Mann-Kendall
 statistic = 66
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

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-2

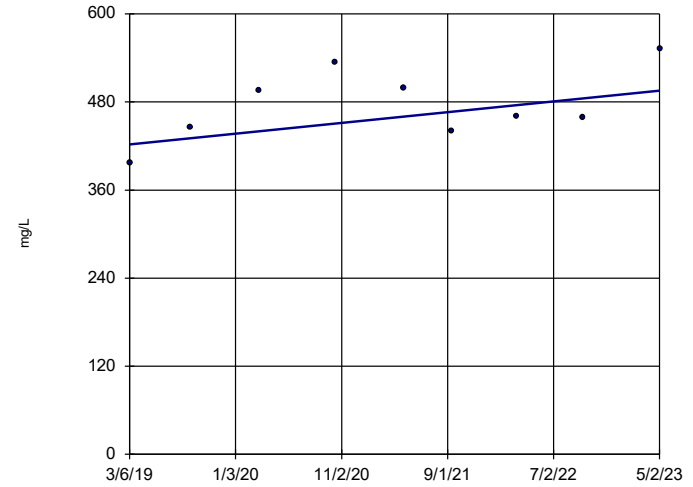


n = 20
 Slope = 17.27
 units per year.
 Mann-Kendall
 statistic = 44
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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)

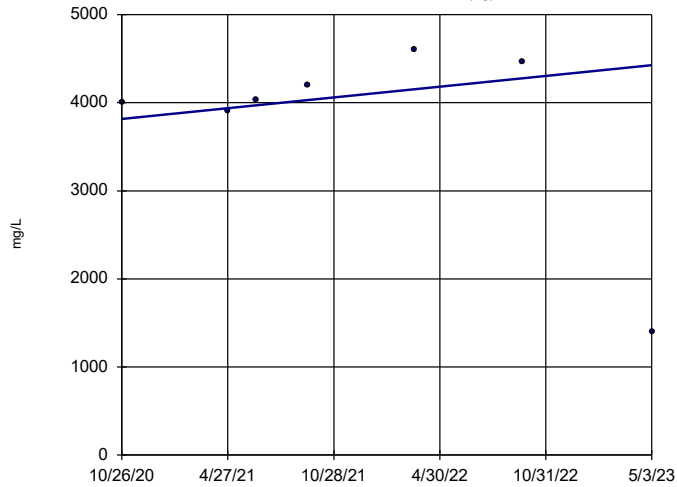


n = 9
 Slope = 17.6
 units per year.
 Mann-Kendall
 statistic = 12
 critical = 25
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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)

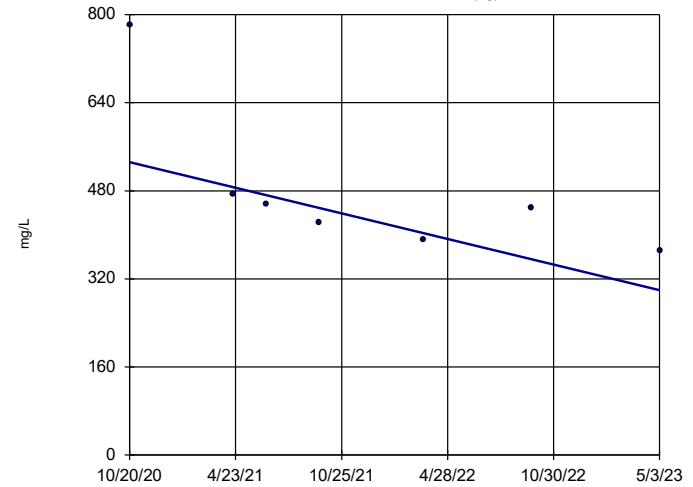


n = 7
 Slope = 241.6
 units per year.
 Mann-Kendall
 statistic = 5
 critical = 18
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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)

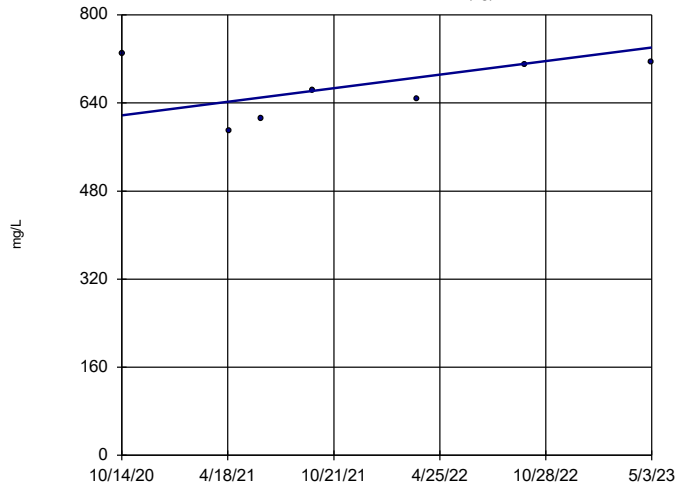


n = 7
 Slope = -91.8
 units per year.
 Mann-Kendall
 statistic = -17
 critical = -18
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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)

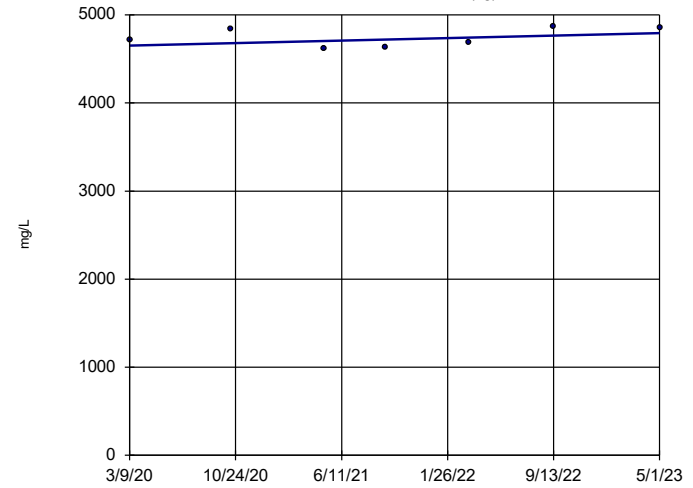


n = 7
 Slope = 48.13 units per year.
 Mann-Kendall statistic = 7
 critical = 18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

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)

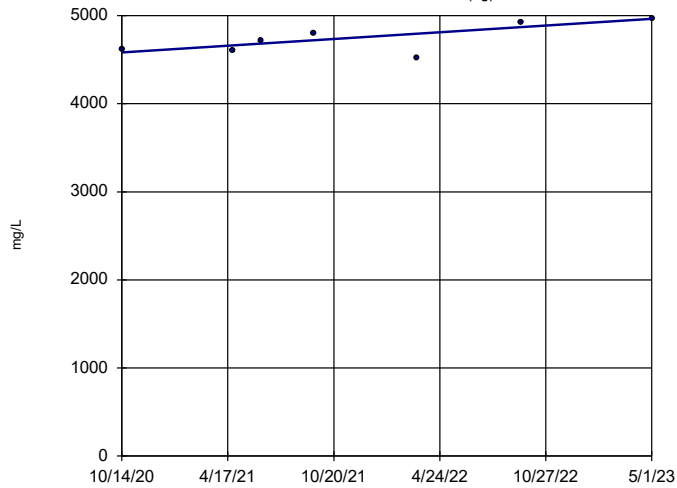


n = 7
 Slope = 44.51 units per year.
 Mann-Kendall statistic = 7
 critical = 18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

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)

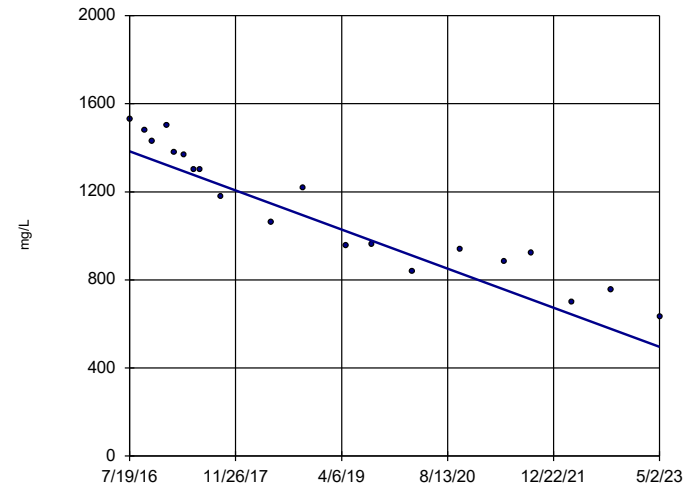


n = 7
 Slope = 149 units per year.
 Mann-Kendall statistic = 11
 critical = 18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

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

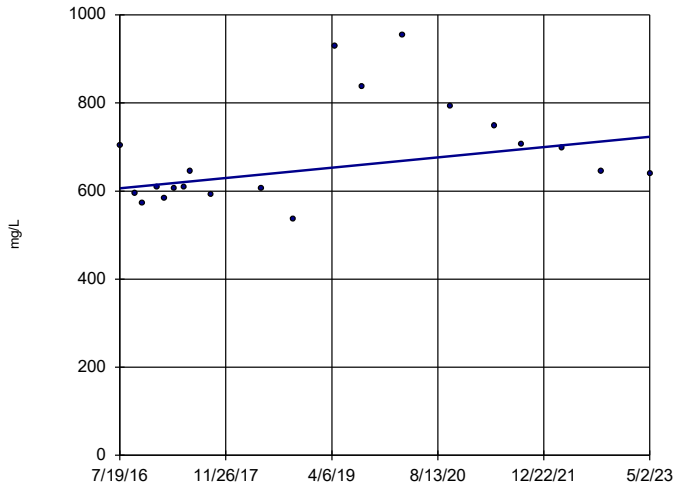


n = 20
 Slope = -130.8 units per year.
 Mann-Kendall statistic = -169
 critical = -81
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

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

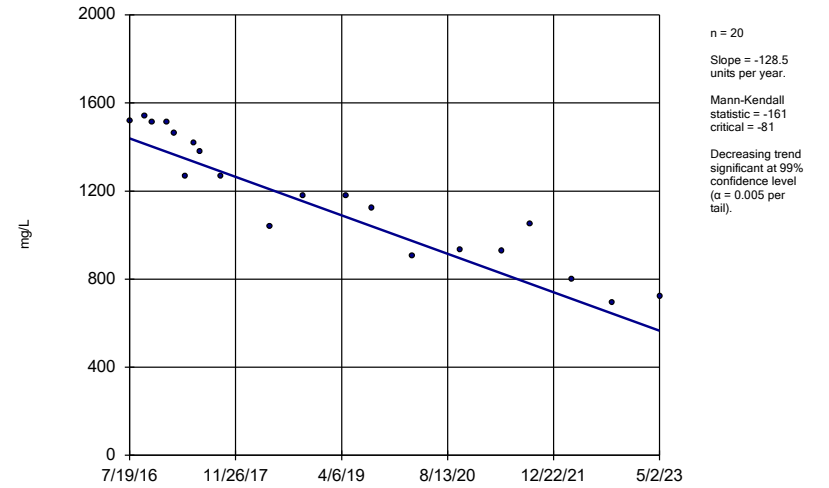
MR-AP-MW-3S



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

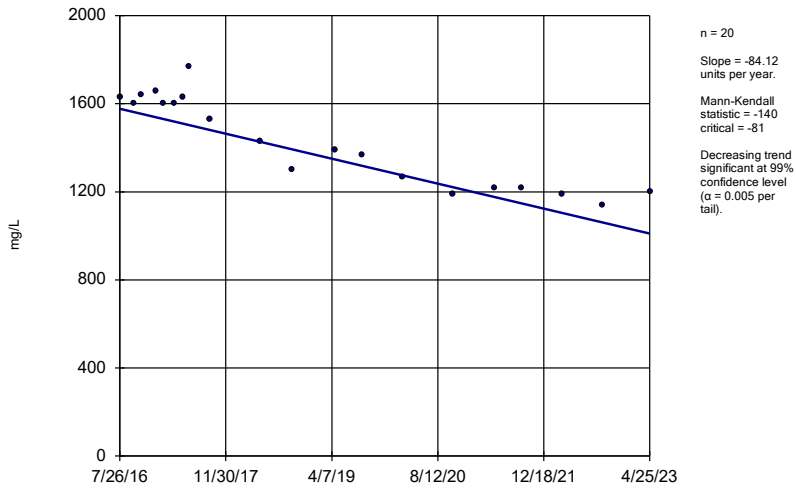
MR-AP-MW-4



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

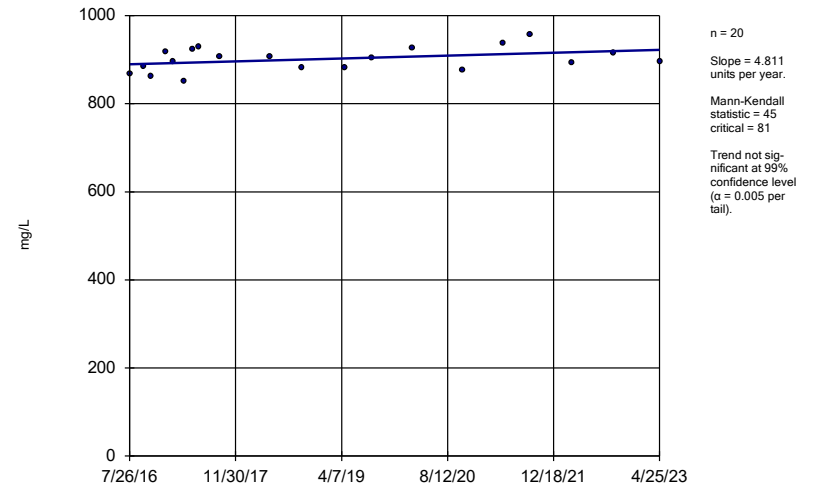
MR-AP-MW-5



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

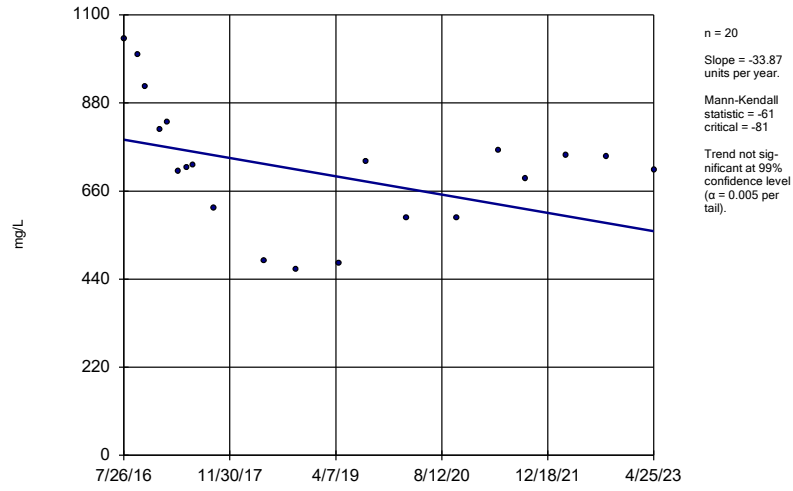
MR-AP-MW-6



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

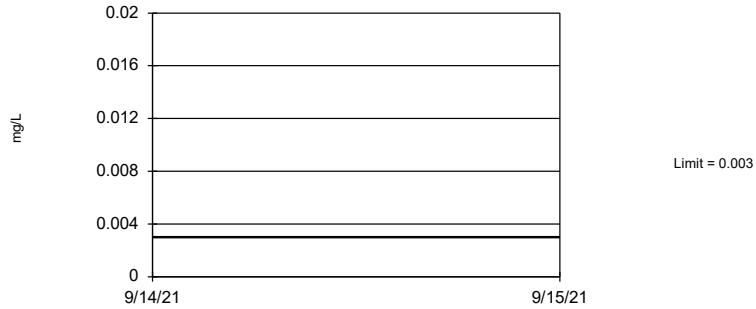
FIGURE G.

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

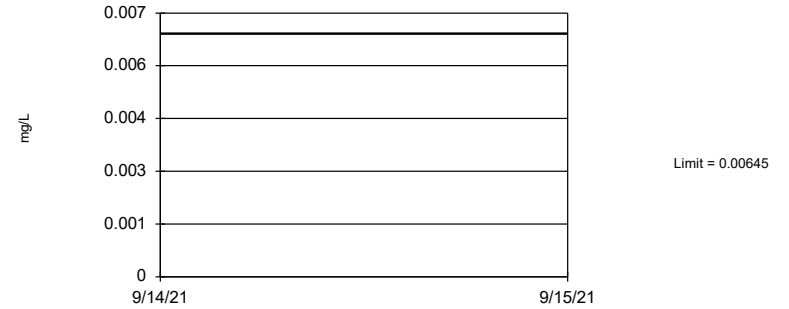
Tolerance Limit Interwell Non-parametric



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

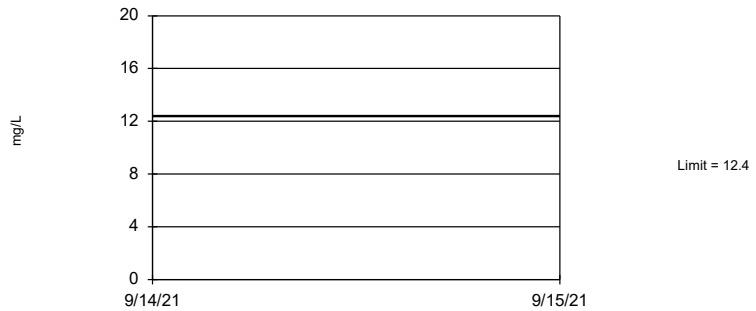
Tolerance Limit Interwell Non-parametric



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

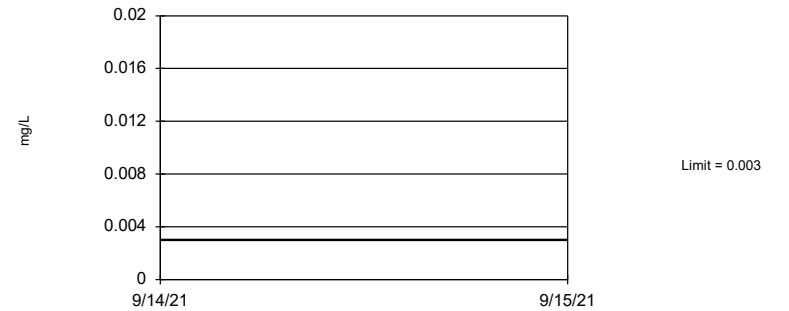
Tolerance Limit Interwell Non-parametric



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

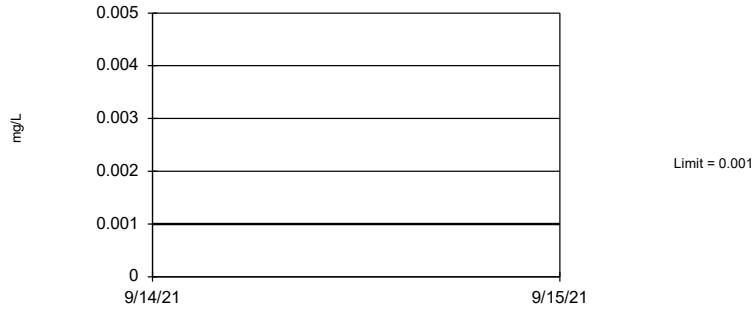
Tolerance Limit Interwell Non-parametric



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

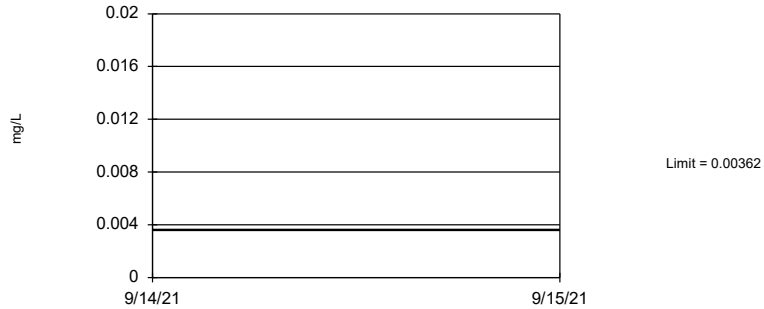
Tolerance Limit Interwell Non-parametric



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

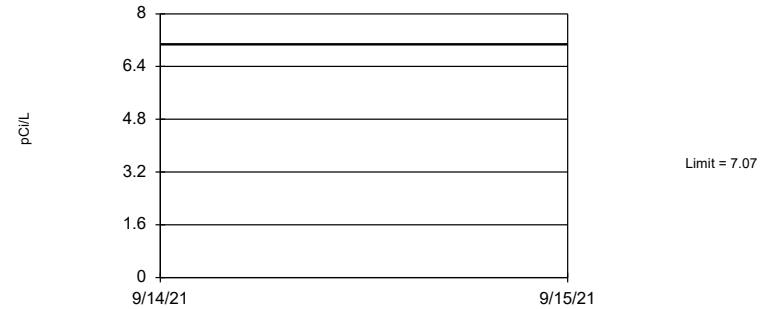
Tolerance Limit Interwell Non-parametric



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

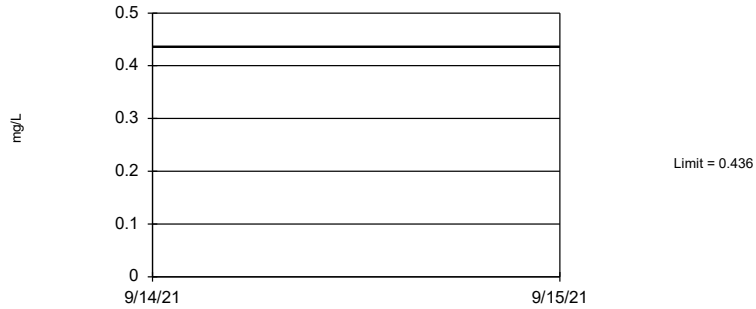
Tolerance Limit Interwell Non-parametric



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

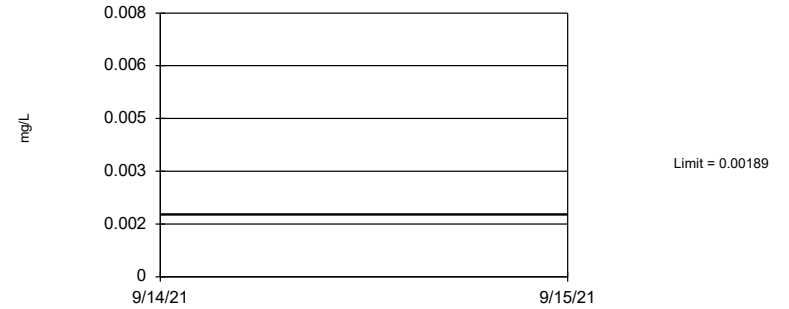
Tolerance Limit Interwell Non-parametric



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

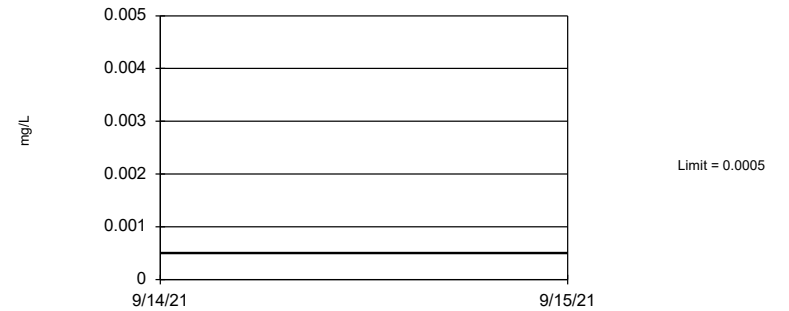
Tolerance Limit Interwell Non-parametric



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

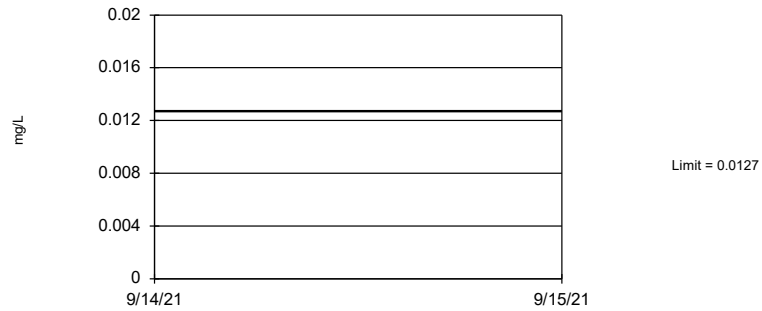
Tolerance Limit Interwell Non-parametric



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)

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
Chromium (mg/L)	MR-AP-MW-4	0.001015	0.000278	0.1	No	8	0.0008323	0.0003384	75	None	No	0.004	NP (NDs)
Chromium (mg/L)	MR-AP-MW-5	0.001015	0.00027	0.1	No	8	0.0009219	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	0.0007251	0.0004001	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	MR-AP-MW-7DR	0.001015	0.000282	0.1	No	6	0.0007737	0.0003739	66.67	None	No	0.0155	NP (NDs)
Chromium (mg/L)	MR-AP-MW-7SR	0.001015	0.000219	0.1	No	6	0.000624	0.0004284	50	None	No	0.0155	NP (normality)
Chromium (mg/L)	MR-AP-MW-9DR	0.001015	0.00024	0.1	No	6	0.0005258	0.0003796	33.33	None	No	0.0155	NP (normality)
Chromium (mg/L)	MR-AP-MW-9SR	0.001015	0.0002	0.1	No	6	0.0006265	0.0004274	50	None	No	0.0155	NP (normality)
Chromium (mg/L)	MR-AP-PZ-5	0.001015	0.00021	0.1	No	8	0.0008175	0.0003658	75	None	No	0.004	NP (NDs)
Cobalt (mg/L)	MR-AP-MW-1	0.0008122	0.000103	0.006	No	8	0.00215	0.00238	37.5	Kaplan-Meier	ln(x)	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-10	0.001304	0.0003286	0.006	No	8	0.002369	0.002208	37.5	Kaplan-Meier	ln(x)	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-11	0.000203	0.000077	0.006	No	8	0.0001873	0.00004455	87.5	Kaplan-Meier	No	0.004	NP (NDs)
Cobalt (mg/L)	MR-AP-MW-12	0.005	0.000717	0.006	No	8	0.00267	0.001948	37.5	None	No	0.004	NP (normality)
Cobalt (mg/L)	MR-AP-MW-13DR	0.005	0.00066	0.006	No	6	0.001488	0.001723	16.67	None	No	0.0155	NP (normality)
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-14R	0.000203	0.0000688	0.006	No	6	0.0001806	0.00005479	83.33	None	No	0.0155	NP (NDs)
Cobalt (mg/L)	MR-AP-MW-15	0.01115	0.00005165	0.006	No	8	0.006327	0.008323	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-16	0.005737	0.002161	0.006	No	8	0.003949	0.001687	12.5	None	No	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.
Cobalt (mg/L)	MR-AP-MW-3D	0.005304	0.003844	0.006	No	8	0.004574	0.0006888	0	None	No	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-3S	0.0002	0.00012	0.006	No	8	0.00019	0.00002828	87.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	MR-AP-MW-4	0.0129	0.003322	0.006	No	8	0.008113	0.00452	0	None	No	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-6	0.01721	0.004291	0.006	No	8	0.01065	0.008459	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-7SR	0.005	0.00067	0.006	No	6	0.001591	0.001699	16.67	None	No	0.0155	NP (normality)
Cobalt (mg/L)	MR-AP-MW-9DR	0.005	0.00011	0.006	No	6	0.0009582	0.00198	16.67	None	No	0.0155	NP (normality)
Cobalt (mg/L)	MR-AP-MW-9SR	0.005	0.000115	0.006	No	6	0.001038	0.001944	16.67	None	No	0.0155	NP (normality)
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-1	1.069	0.3463	5	No	8	0.7075	0.3408	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-10	1.124	0.2924	5	No	8	0.7084	0.3925	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-11	0.5558	0.1588	5	No	8	0.3573	0.1873	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-12	1.049	0.2829	5	No	8	0.6524	0.4038	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-13DR	0.8997	0.2763	5	No	6	0.588	0.2269	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-13SR	1.436	0.5423	5	No	6	0.989	0.3252	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-14R	0.9061	-0.1254	5	No	6	0.3903	0.3754	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-15	0.7504	0.09511	5	No	8	0.4228	0.3091	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-16	0.5502	0.1006	5	No	8	0.3254	0.212	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-2	0.811	0.3542	5	No	8	0.5826	0.2155	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-3D	0.9163	0.0462	5	No	8	0.4813	0.4104	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-3S	1.025	0.009198	5	No	8	0.5169	0.4789	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-4	0.4989	0.2316	5	No	8	0.3653	0.1261	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-5	1.132	0.1835	5	No	8	0.6579	0.4475	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-6	0.3341	0.1429	5	No	8	0.2385	0.0902	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-7DR	1.303	0.007039	5	No	6	0.6548	0.4716	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-7SR	0.878	0.3784	5	No	6	0.6282	0.1818	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-9DR	1.197	0.1699	5	No	6	0.6835	0.3739	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-9SR	0.6398	0.09291	5	No	6	0.3663	0.199	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-PZ-5	0.7523	0.1192	5	No	8	0.4207	0.3348	0	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-1	0.1829	0.1516	4	No	8	0.1673	0.01479	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-10	1.292	0.4283	4	No	8	0.8473	0.464	0	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-11	0.1514	0.1006	4	No	8	0.126	0.02396	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-12	1.137	0.8642	4	No	8	1	0.1285	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-13DR	0.241	0.113	4	No	6	0.177	0.0466	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-13SR	0.6282	0.1958	4	No	6	0.412	0.1574	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-14R	0.2063	0.155	4	No	6	0.1807	0.01866	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-15	0.1252	0.08808	4	No	8	0.1066	0.01997	12.5	None	x^2	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-16	0.29	0.14	4	No	8	0.1734	0.0491	0	None	No	0.004	NP (normality)
Fluoride, total (mg/L)	MR-AP-MW-2	0.3395	0.194	4	No	8	0.2668	0.06868	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-3D	0.4057	0.3396	4	No	8	0.3726	0.03116	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-3S	0.361	0.286	4	No	8	0.3084	0.02334	0	None	No	0.004	NP (normality)
Fluoride, total (mg/L)	MR-AP-MW-4	0.2612	0.1733	4	No	8	0.2173	0.04144	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-5	0.433	0.382	4	No	8	0.4035	0.02161	0	None	No	0.004	NP (normality)
Fluoride, total (mg/L)	MR-AP-MW-6	0.1574	0.07754	4	No	8	0.1175	0.03768	12.5	None	No	0.01	Param.

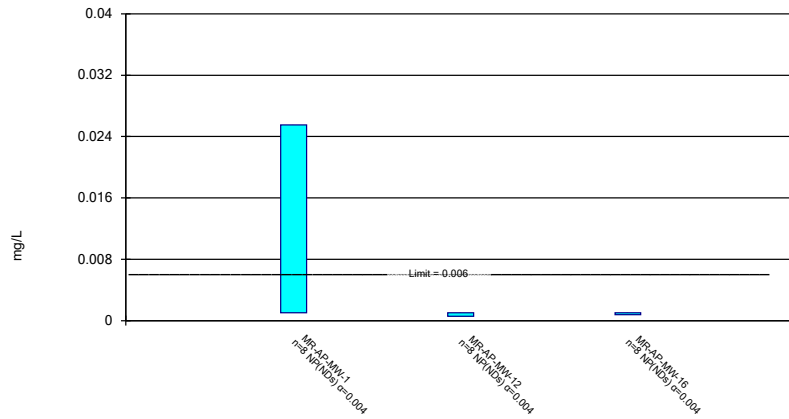
Confidence Intervals - All Results

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
Fluoride, total (mg/L)	MR-AP-MW-7DR	0.16	0.115	4	No	6	0.1288	0.01579	33.33	None	No	0.0155	NP (normality)
Fluoride, total (mg/L)	MR-AP-MW-7SR	0.254	0.1807	4	No	6	0.2173	0.02666	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-9DR	0.2581	0.0899	4	No	6	0.174	0.06122	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-9SR	0.162	0.0852	4	No	6	0.1236	0.02794	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-PZ-5	2.388	1.965	4	No	8	2.176	0.1997	0	None	No	0.01	Param.
Lead (mg/L)	MR-AP-MW-13DR	0.000203	0.000121	0.015	No	6	0.0001893	0.00003348	83.33	None	No	0.0155	NP (NDs)
Lead (mg/L)	MR-AP-MW-13SR	0.0007862	0.00004217	0.015	No	6	0.0003533	0.0003356	50	Kaplan-Meier	x^(1/3)	0.01	Param.
Lead (mg/L)	MR-AP-MW-3D	0.000203	0.000084	0.015	No	8	0.0001881	0.00004207	87.5	Kaplan-Meier	No	0.004	NP (NDs)
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-13DR	0.03872	0.03188	0.04	No	6	0.0353	0.002492	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-13SR	0.04064	0.01731	0.04	No	6	0.02773	0.01011	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	MR-AP-MW-14R	0.02139	0.01981	0.04	No	6	0.0206	0.0005762	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-15	0.02201	0.01831	0.04	No	8	0.02015	0.001769	0	None	x^(1/3)	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-MW-9SR	0.04733	0.03974	0.04	No	6	0.04353	0.002761	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-1	0.0142	0.005075	0.1	No	8	0.007668	0.003368	12.5	None	No	0.004	NP (normality)
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-11	0.01015	0.00039	0.1	No	8	0.005495	0.004985	50	None	No	0.004	NP (normality)
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.
Molybdenum (mg/L)	MR-AP-MW-13DR	0.005378	0.002076	0.1	No	6	0.004722	0.002942	16.67	Kaplan-Meier	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-13SR	0.01015	0.00011	0.1	No	6	0.002328	0.004008	16.67	None	No	0.0155	NP (normality)
Molybdenum (mg/L)	MR-AP-MW-14R	0.01015	0.00009	0.1	No	6	0.005136	0.005492	50	None	No	0.0155	NP (normality)
Molybdenum (mg/L)	MR-AP-MW-15	0.01015	0.00008	0.1	No	8	0.006432	0.005133	62.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	MR-AP-MW-16	0.08468	0.02644	0.1	No	8	0.05556	0.02747	0	None	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-2	0.01015	0.00166	0.1	No	8	0.005333	0.004093	37.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	MR-AP-MW-3D	0.0278	0.02432	0.1	No	8	0.02606	0.001642	0	None	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-3S	0.06223	0.04619	0.1	No	8	0.05421	0.007566	0	None	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-4	0.01015	0.00007	0.1	No	8	0.005127	0.00537	50	None	No	0.004	NP (normality)
Molybdenum (mg/L)	MR-AP-MW-5	0.0934	0.0709	0.1	No	8	0.07948	0.009254	0	None	No	0.004	NP (normality)
Molybdenum (mg/L)	MR-AP-MW-6	0.01015	0.00135	0.1	No	8	0.004066	0.003796	25	None	No	0.004	NP (normality)
Molybdenum (mg/L)	MR-AP-MW-7DR	0.006596	0.003432	0.1	No	6	0.00587	0.002392	16.67	Kaplan-Meier	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-7SR	0.03652	0.02928	0.1	No	6	0.0329	0.002632	0	None	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-9DR	0.01015	0.000304	0.1	No	6	0.003746	0.004973	33.33	None	No	0.0155	NP (normality)
Molybdenum (mg/L)	MR-AP-MW-9SR	0.00202	0.0001632	0.1	No	6	0.00247	0.003836	16.67	Kaplan-Meier	x^(1/3)	0.01	Param.
Molybdenum (mg/L)	MR-AP-PZ-5	0.01015	0.000184	0.1	No	8	0.00523	0.00526	50	None	No	0.004	NP (normality)
Selenium (mg/L)	MR-AP-MW-13SR	0.001015	0.000598	0.05	No	6	0.0009455	0.0001702	83.33	None	No	0.0155	NP (NDs)
Selenium (mg/L)	MR-AP-MW-16	0.005353	0.001114	0.05	No	8	0.002924	0.002227	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Selenium (mg/L)	MR-AP-MW-4	0.00112	0.000539	0.05	No	8	0.0009411	0.0001905	62.5	Kaplan-Meier	No	0.004	NP (NDs)
Thallium (mg/L)	MR-AP-MW-13SR	0.001	0.0000701	0.002	No	6	0.0002674	0.0003611	16.67	None	No	0.0155	NP (normality)
Thallium (mg/L)	MR-AP-MW-16	0.0002	0.00007	0.002	No	8	0.0001677	0.00005976	75	None	No	0.004	NP (NDs)
Thallium (mg/L)	MR-AP-MW-4	0.0002	0.00007	0.002	No	8	0.0001837	0.00004596	87.5	None	No	0.004	NP (NDs)

Non-Parametric Confidence Interval

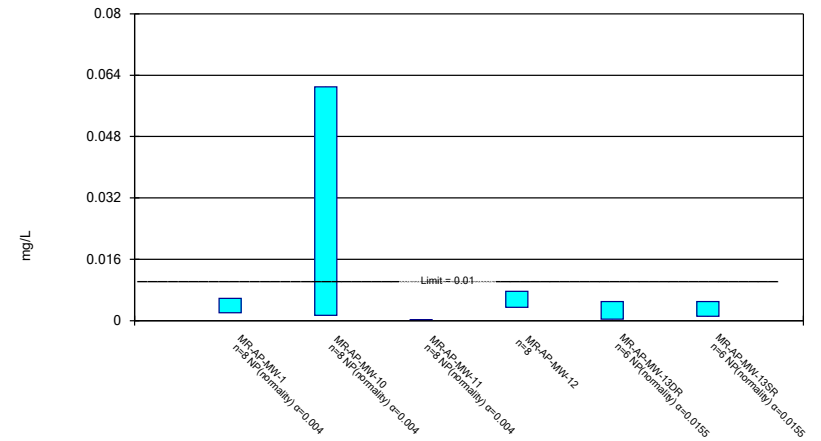
Compliance Limit is not exceeded.



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

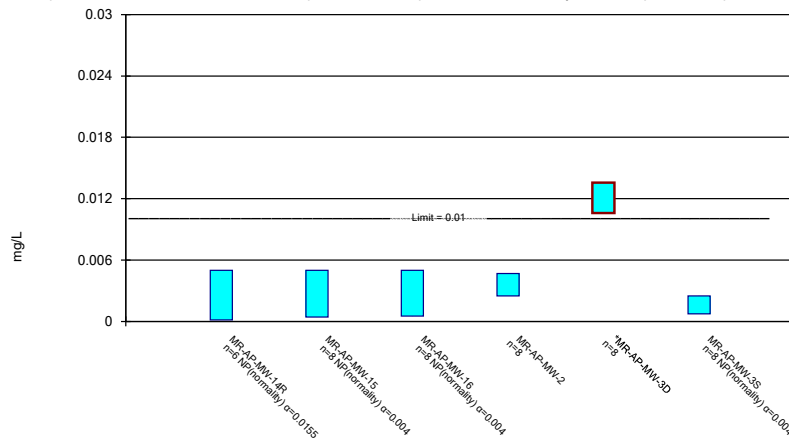
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



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

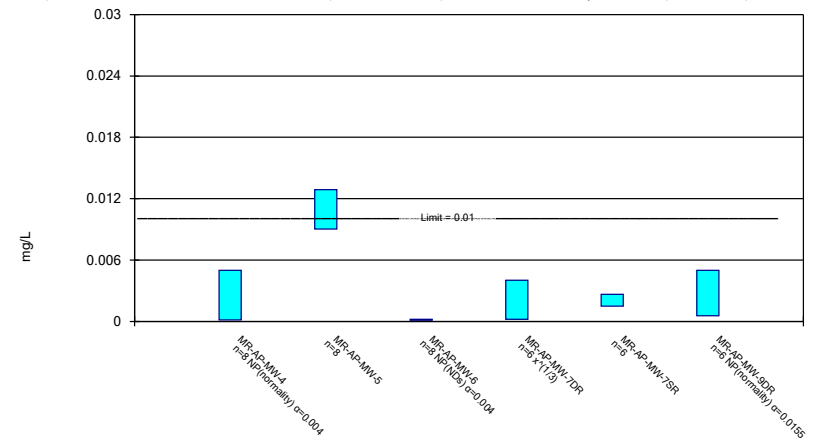
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 6/30/2023 11:28 AM View: Appendix IV - Confidence Intervals
 Plant Miller Client: Southern Company Data: Miller Ash Pond

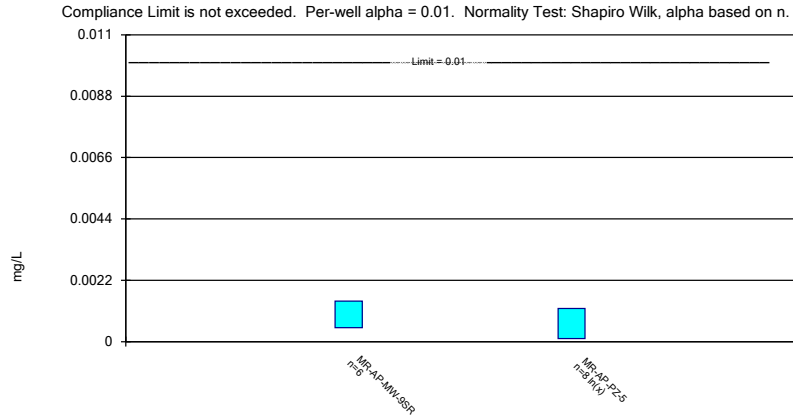
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



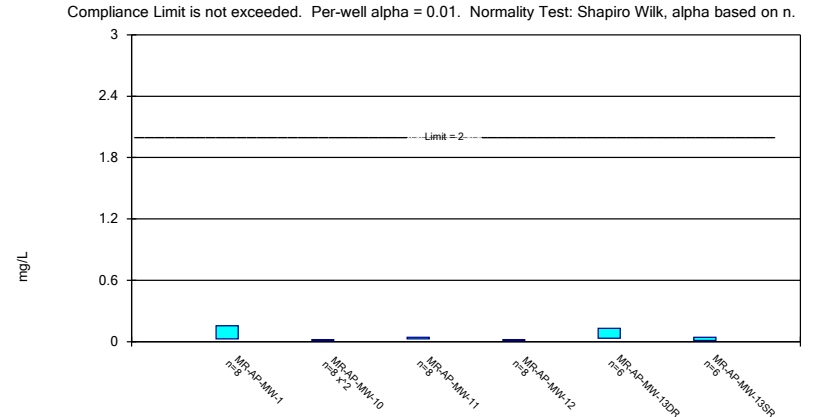
Constituent: Arsenic Analysis Run 6/30/2023 11:28 AM View: Appendix IV - Confidence Intervals
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Parametric Confidence Interval



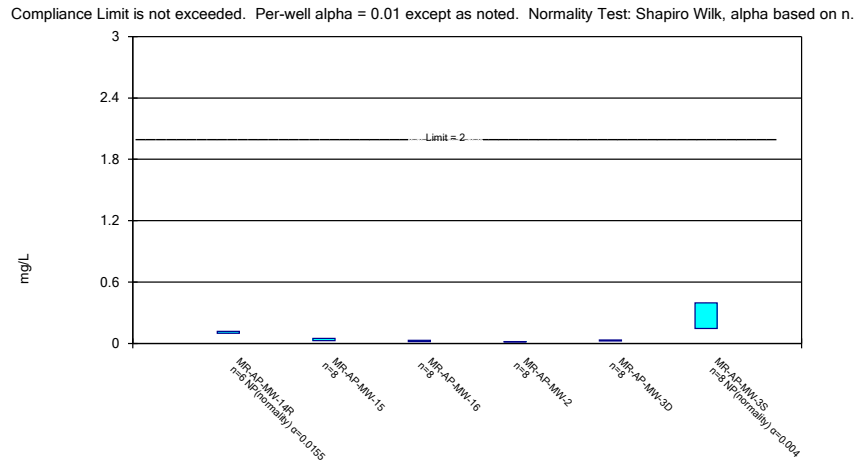
Constituent: Arsenic Analysis Run 6/30/2023 11:28 AM View: Appendix IV - Confidence Intervals
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Parametric Confidence Interval



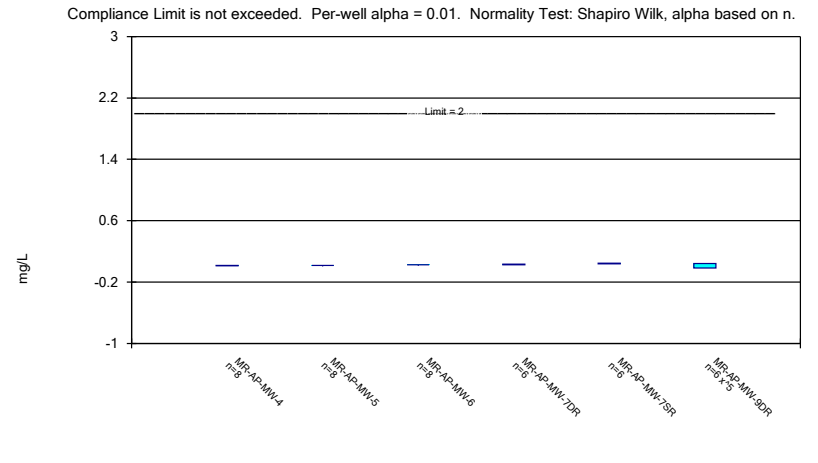
Constituent: Barium Analysis Run 6/30/2023 11:28 AM View: Appendix IV - Confidence Intervals
 Plant Miller Client: Southern Company Data: Miller Ash Pond

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

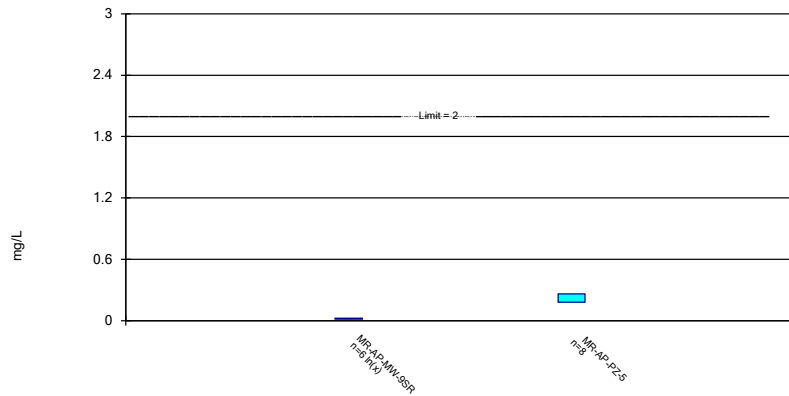
Parametric Confidence Interval



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

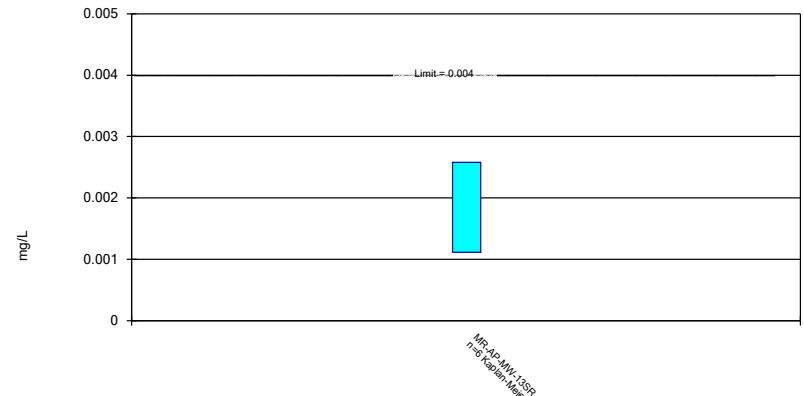
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

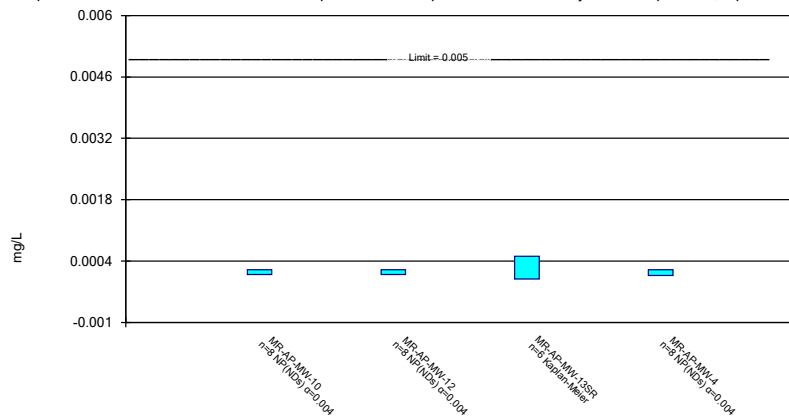
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

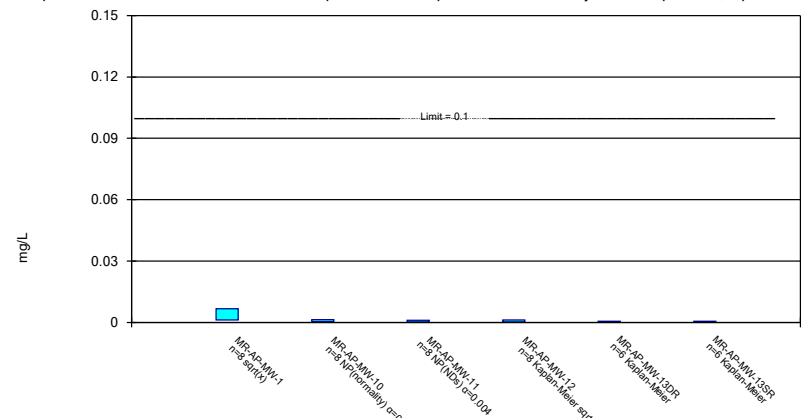
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



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

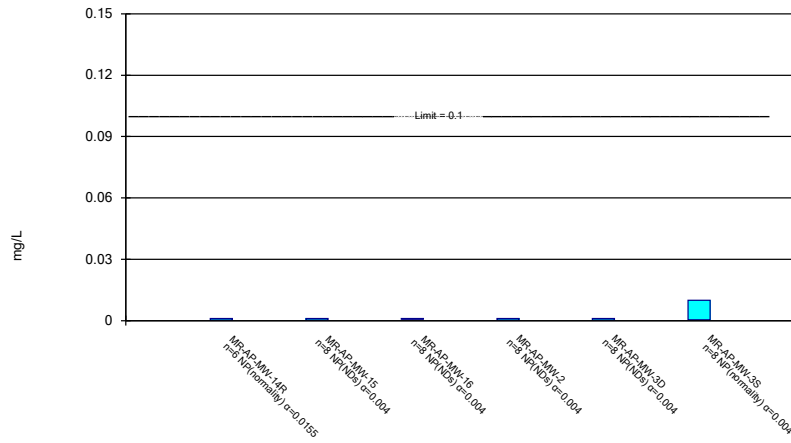
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



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

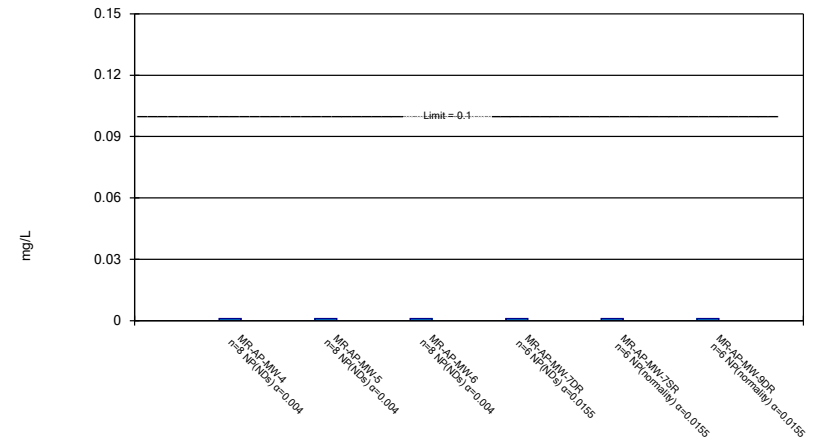
Compliance Limit is not exceeded.



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

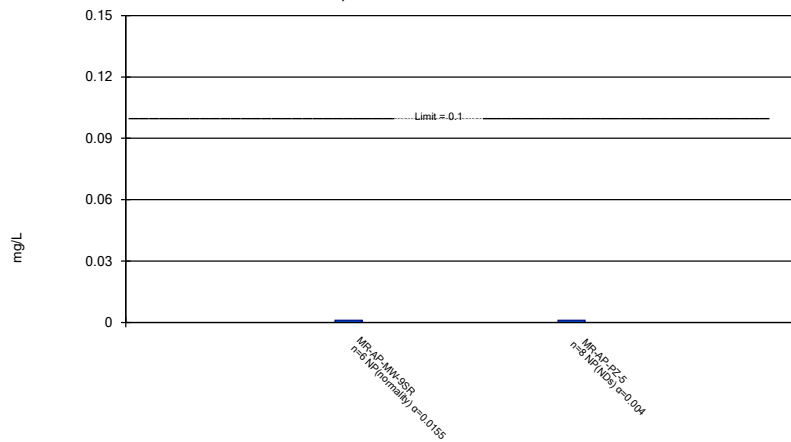
Compliance Limit is not exceeded.



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

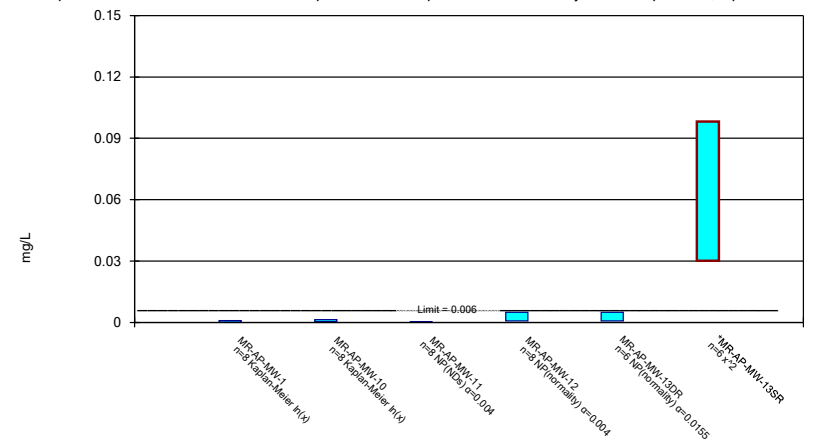
Compliance Limit is not exceeded.



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

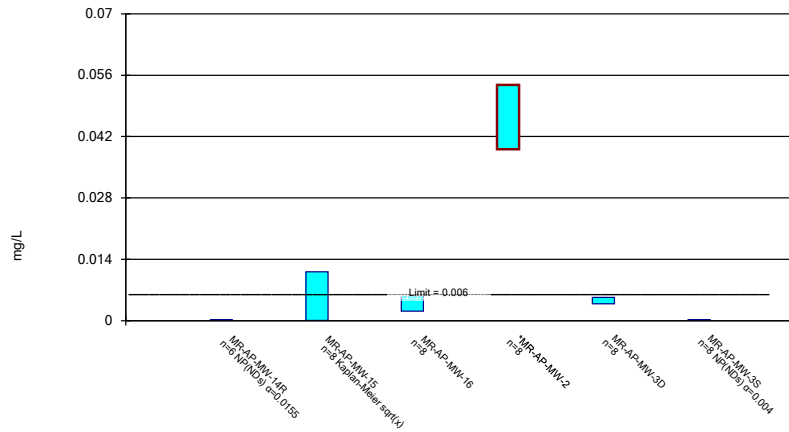
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



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

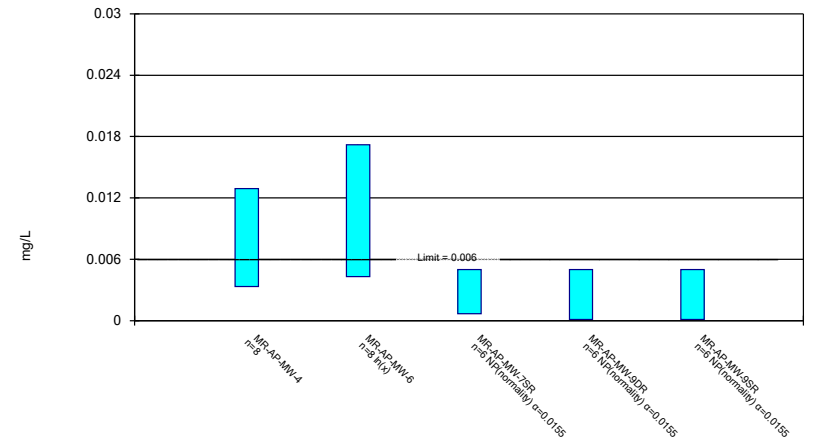
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



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

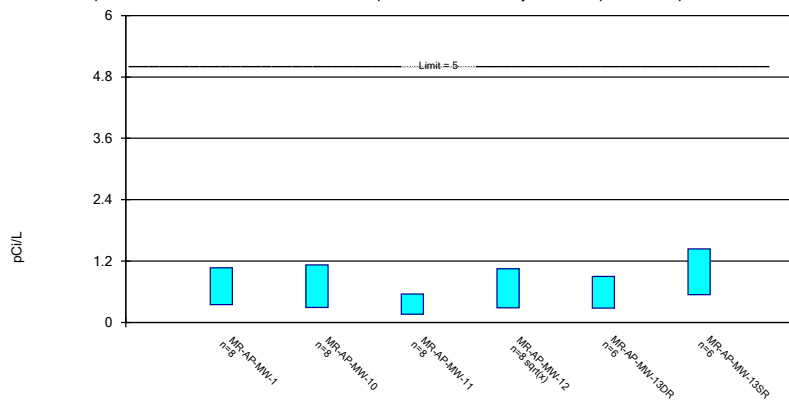
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



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

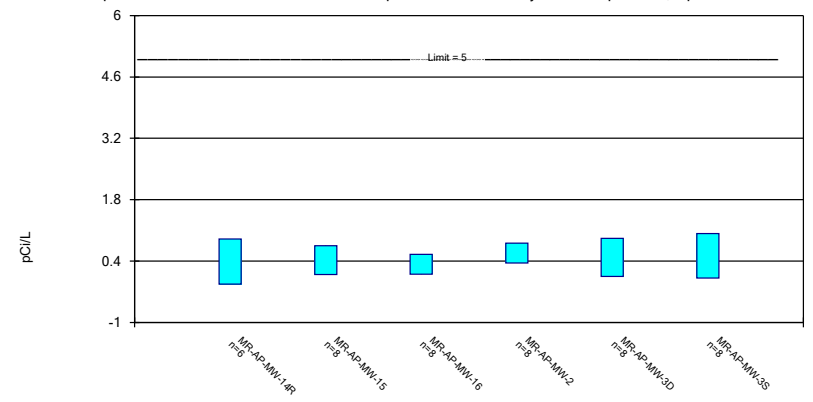
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

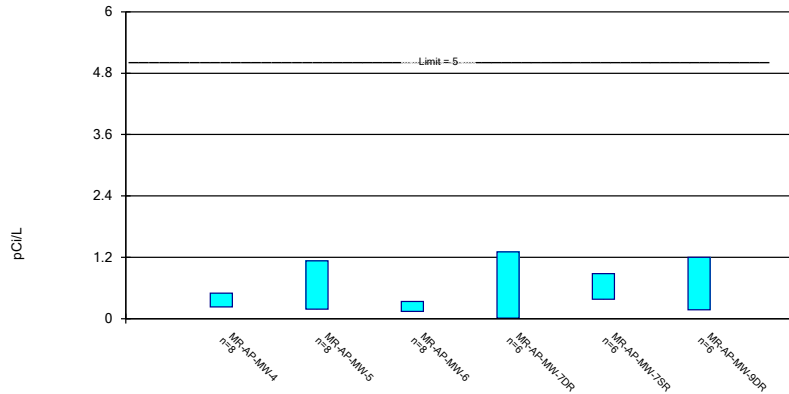
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

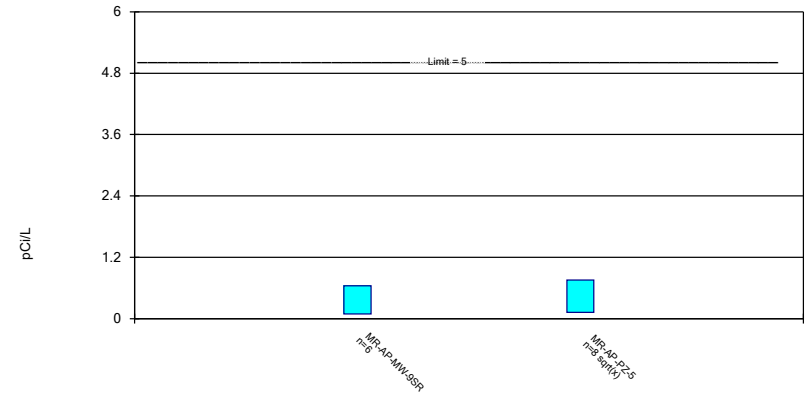
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 6/30/2023 11:28 AM View: Appendix IV - Confidence Intervals
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Parametric Confidence Interval

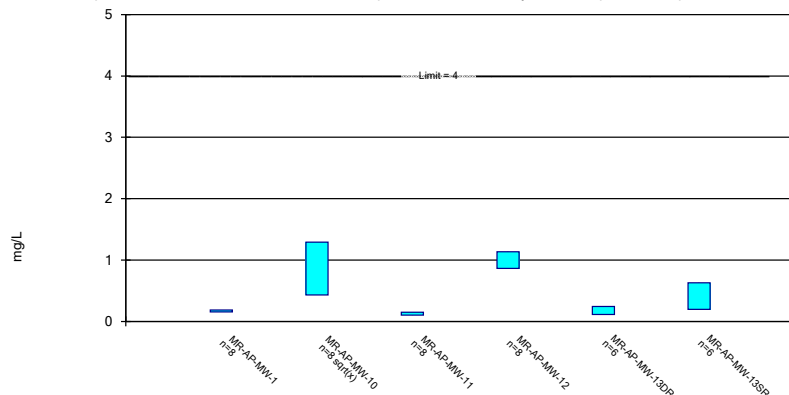
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 6/30/2023 11:28 AM View: Appendix IV - Confidence Intervals
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Parametric Confidence Interval

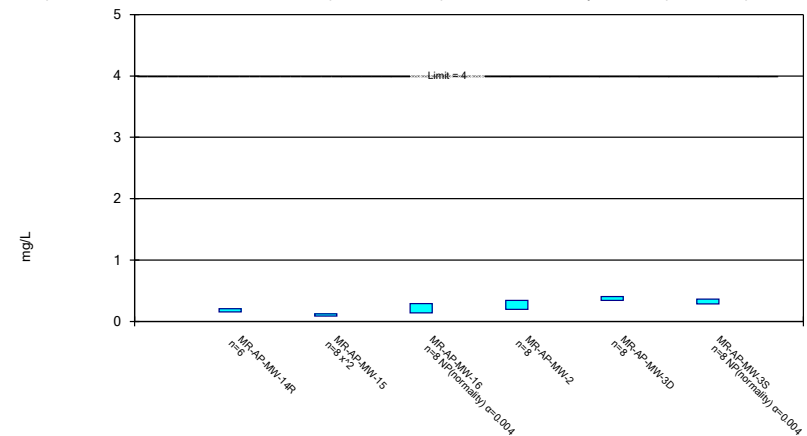
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

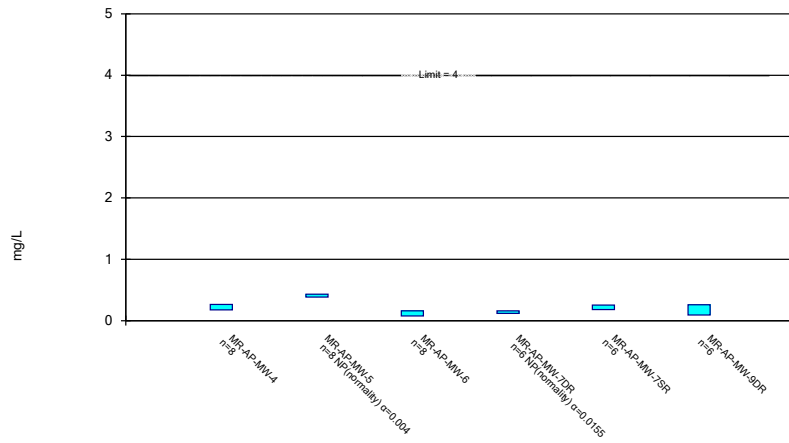
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: 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

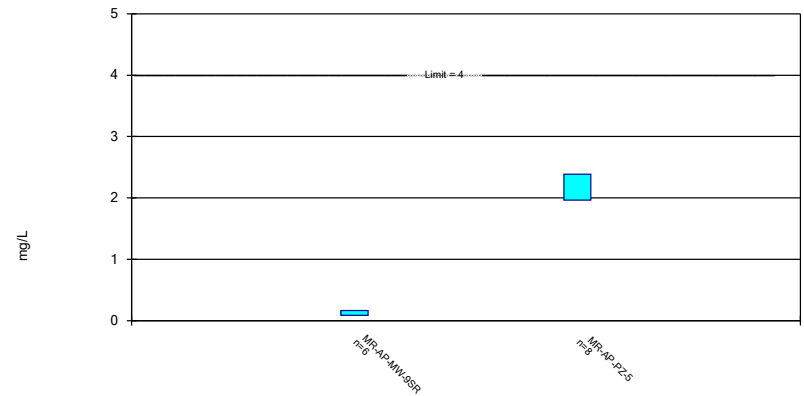
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



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 Confidence Interval

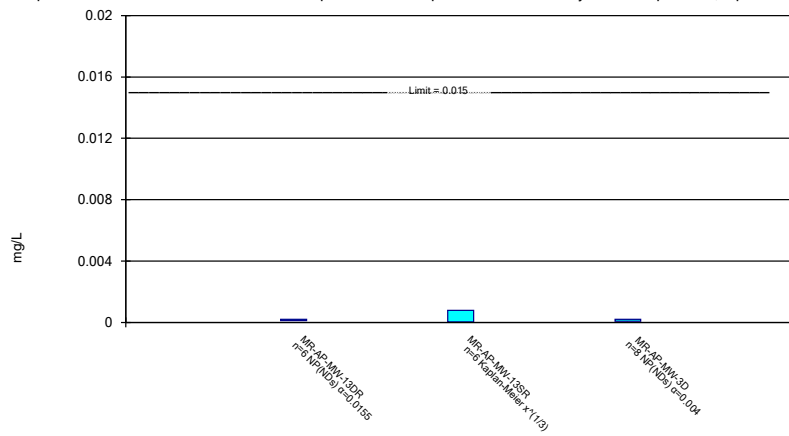
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

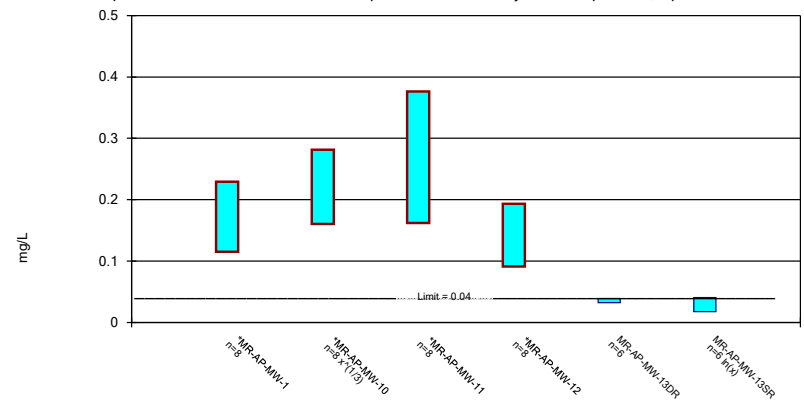
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



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

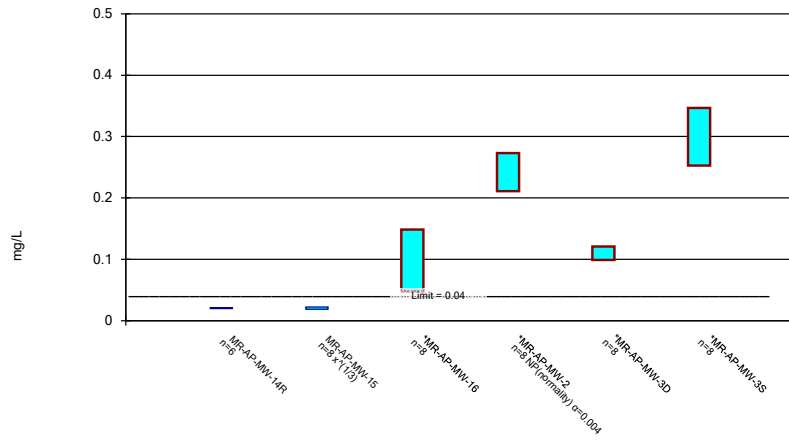
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

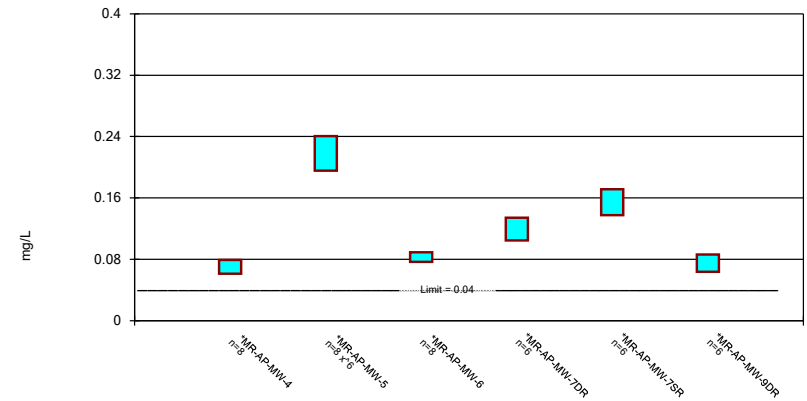
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



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

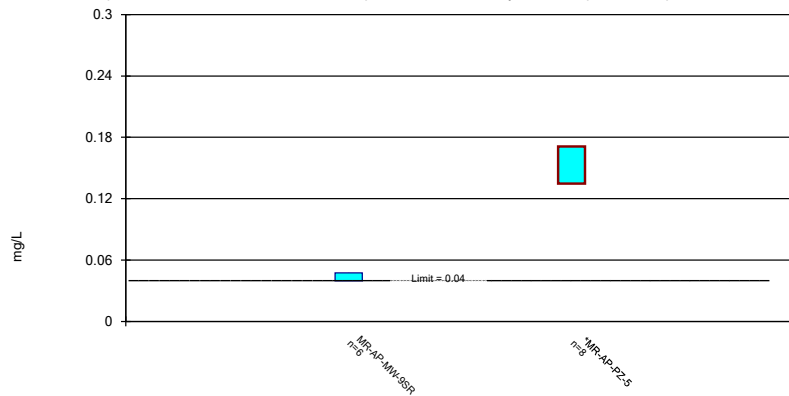
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

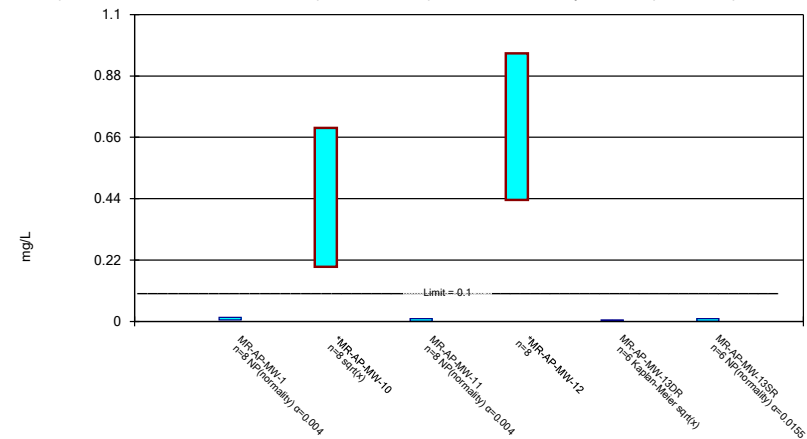
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

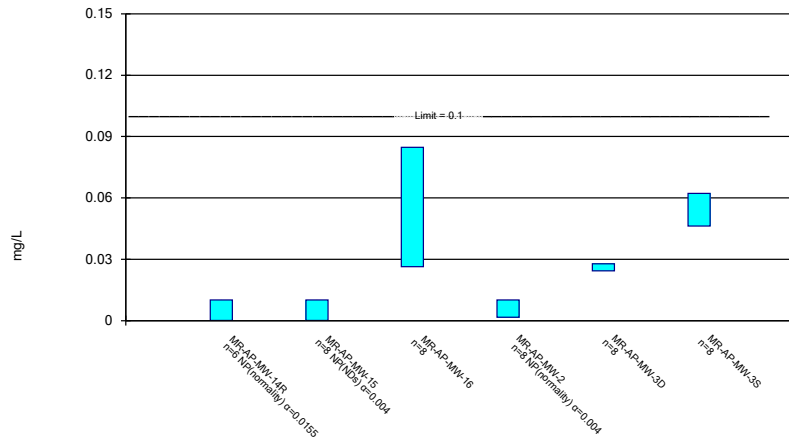
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: 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

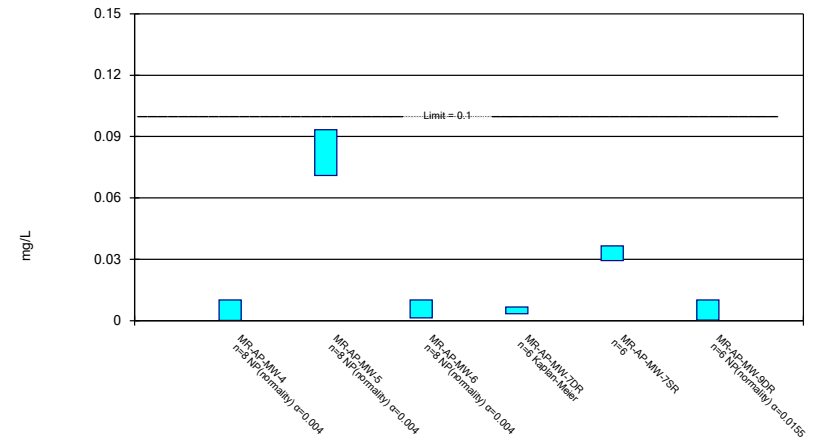
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



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

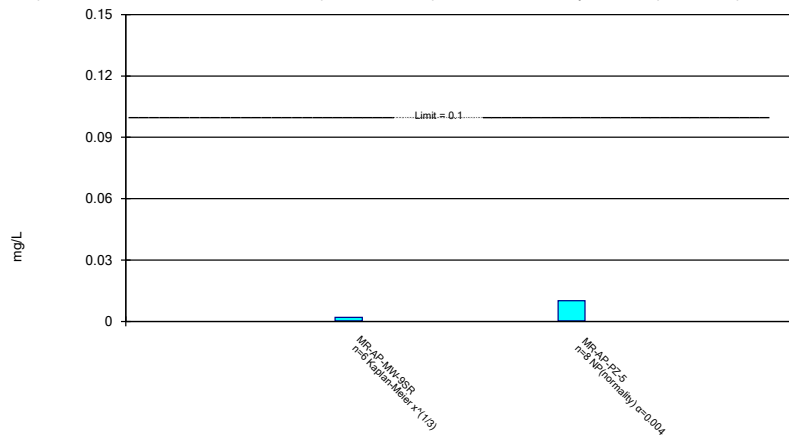
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: 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

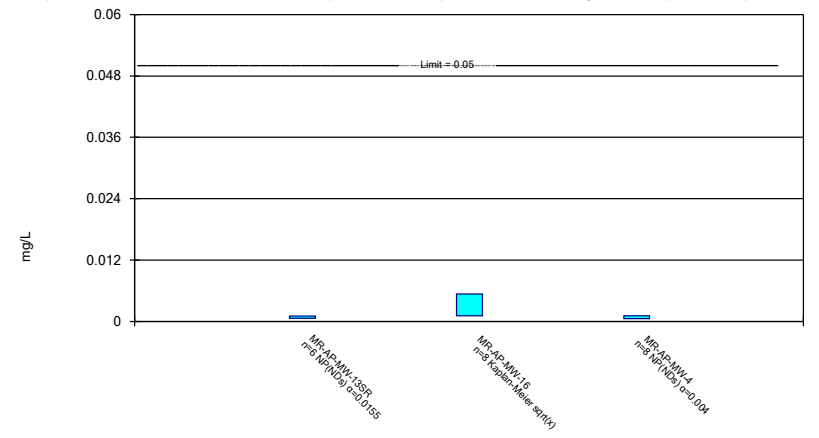
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



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

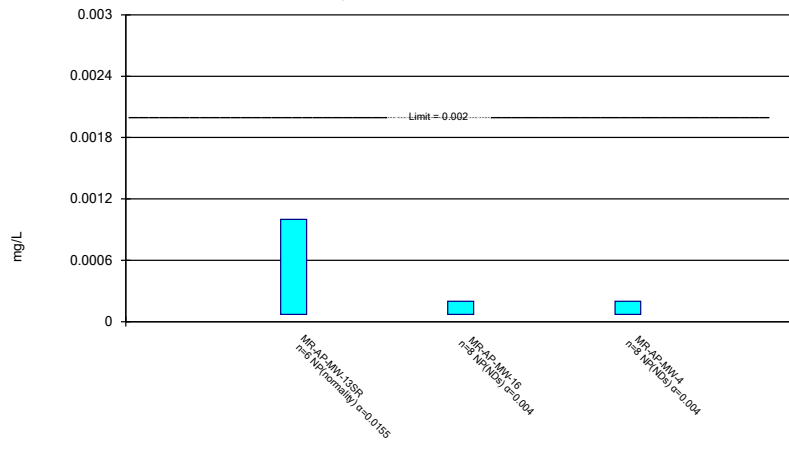
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



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