

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

**ALABAMA POWER COMPANY  
PLANT MILLER  
ASH POND**

**July 31, 2022**

Prepared for

Alabama Power Company  
Birmingham, Alabama

By

Southern Company Services  
Earth Science and Environmental Engineering



## CERTIFICATION STATEMENT

This 2022 *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.

 \_\_\_\_\_ 7/31/2022 \_\_\_\_\_

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## **EXECUTIVE SUMMARY**

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

The CCR unit began the monitoring period in assessment monitoring pursuant to § 257.95 and ADEM Admin. Code r. 335-13-15-.06(6). Statistically significant increases (SSI) of Appendix III constituents over background were identified in the results of the first detection monitoring event and assessment monitoring was initiated in January 2018. Statistically significant levels (SSL) of Appendix IV parameters above groundwater protection standards (GWPS) were identified while in assessment monitoring. Consequently, an assessment of corrective measures (ACM) was initiated on January 13, 2019 and completed on June 12, 2019 according to the requirements of § 257.96, ADEM Admin. Code r. 335-13-15-.06(7), and ADEM Administrative Order No.18-098-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.18-095-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.

SSLs of Appendix IV parameters arsenic, cobalt, lithium, and molybdenum were detected above GWPS during the first semi-annual monitoring event of 2022. The following summarizes activities for 2022 groundwater monitoring at the Site:

- Submitted 2021 Annual Groundwater Monitoring and Corrective Action Report on January 31, 2022.

- Submitted the Corrective Action Groundwater Monitoring Program document on February 28, 2022.
- Completed the second semi-annual assessment groundwater monitoring event between March 7, 2022, and March 24, 2022.
- Completed a re-sampling event on May 19, 2022.

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:

- Initiate Phase III of delineation and assessment activities which includes an assessment of geogenic sources, occurrences, and mechanisms for mobilization of COI.
- 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 (August-September 2022).
- Evaluation of recently collected MNA parameter data.
- Evaluation of molybdenum, south of the Ash Pond, in context of planned Remedial Action strategies and work flow.
- Conduct the second semi-annual assessment monitoring event in October 2022 and submit the semi-annual groundwater monitoring report summarizing the findings to ADEM by January 31, 2023.

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

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

Assessment Monitoring Initiated: January 15, 2018  
 Monitoring Period: January 1 - July 31, 2022  
 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, 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-12, and MR-AP-MW-16
Chloride	MR-AP-MW-3D, MR-AP-MW-3S, MR-AP-MW-4, MR-AP-MW-5, MR-AP-PZ-5, MR-AP-MW-6, and MR-AP-MW-15
Fluoride	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-3D, MR-AP-MW-4, and MR-AP-MW-10
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, 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, MR-AP-MW-12, and MR-AP-MW-16

**Appendix IV SSLs**

Parameter	Wells
Arsenic	MR-AP-MW-5
Cobalt	MR-AP-MW-2
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-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-PZ-5
Molybdenum	MR-AP-MW-10, and 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**

Selected During Period: Yes  
 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

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) and the State of Alabama Department of Environmental Management (ADEM) Admin. Code Ch. 335-13-15, this 2022 Semi-Annual Groundwater Monitoring and Corrective Action Report has been prepared to document 2022 semi-annual assessment groundwater monitoring activities at the Plant Miller Ash Pond (Ash Pond) and to satisfy the requirements of § 257.90(e) and ADEM Admin. Code r. 335-13-15-.06(1)(f). Semi-annual assessment monitoring and associated reporting for the Ash Pond is performed in accordance with the monitoring requirements of §§ 257.90 through 257.95 and ADEM Admin. Code r. 335-13-15-.06(1) through r. 335-13-15-.06(6).

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 18-098-GW. The ACM was completed June 12, 2019 and a public meeting was held to discuss the ACM on July 1, 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 § 257.95 and ADEM Admin. Code r. 335-13-15-.06(6), APC will continue semi-annual assessment monitoring, including all monitoring wells in the certified groundwater monitoring system and any well installed to characterize the horizontal and vertical extent of SSLs. 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 4<sup>th</sup> or 5<sup>th</sup> 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 stripmining 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 6.1.3**, 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 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 suggests that 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. Comprised of 2-3 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 2-3 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. The exception to this pattern may be the Mary Lee flow system, where recent potentiometric surface data (2020 monitoring events) indicate potential groundwater flow towards the ash pond.

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 projects 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, 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 therefore, 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. It is anticipated that this recommendation will be finalized and submitted to ADEM by the first quarter of 2022 or earlier.

**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 utilized 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**, summarizes compliance well installation data including monitoring well construction details and the lithology (flow system) adjacent to the screened interval.

### **3.3.1.3 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 and sampled as part of the first 2021 semi-annual sampling event.

**Figure 5** and **Table 1b, Water-Level Only Piezometer Network Details** summarize monitoring well construction details and design purpose for the Plant Miller Ash Pond.

#### **3.3.1.4 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 designated as from a piezometer to a horizontal delineation well. All three wells were sampled in the first 2021 semi-annual sampling event.

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

#### **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-MW27H, 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 18-096-GW, additional monitoring wells (**Table 1c, 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, Groundwater Analytical Data**.

#### **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 – mid spring and (2) early to late fall. The temporal spacing between sampling events is sufficient to ensure that sampling events yield independent groundwater samples and generally, represent different climatic or meteorological seasons which often foster a degree of natural variability in groundwater quality.

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

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

### **3.4.1 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). All 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 NTU.
- Temperature and 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 within the designated size and type of laboratory-supplied containers required for specific parameters. Sample bottles were pre-preserved by the laboratory.

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

### **3.4.3 Chain of Custody**

A chain-of-custody (COC) record was used to track sample possession from the time of collection to the time of receipt at the laboratory. All samples were handled under strict COC procedures beginning in the field. COC records are included with the analytical laboratory reports included in **Appendix 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). Both APCEL and Pace are accredited by National Environmental Laboratory Accreditation Program (NELAP) and maintain a NELAP certification for all parameters analyzed. **Table 2, Monitoring Parameters and Reporting Limits**, lists assessment monitoring constituents analyzed from site groundwater samples. Lab reports and chain of custody 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)(f), the following describes monitoring-related activities performed during the monitoring period. Semi-annual assessment monitoring sampling occurred between April 20<sup>th</sup> and May 5<sup>th</sup>, 2021. A re-sampling event was conducted on May 19, 2022 to evaluate potential outliers observed in wells MR-AP-MW-10 and MR-AP-MW-12 following receipt of the March laboratory data.

Groundwater samples were analyzed for the full list of Appendix III and Appendix IV parameters during the Assessment Monitoring event. 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)(f)3.

## 4.0 GROUNDWATER ELEVATIONS

### 4.1 GROUNDWATER ELEVATIONS AND FLOW

During the most recent monitoring event, groundwater elevations ranged from 163.03 to 429.38 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.

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 (March 7, 2022) – Mary Lee Aquifer, Figure 6B, Potentiometric Surface Contour Map (March 7, 2022) – Gillespy Lower Discrete Zone, Figure 6C, Potentiometric Surface Contour Map (March 7, 2022) – Gillespy Lower Sandstone, Figure 6D, Potentiometric Surface Contour Map (March 7, 2022) – Gillespy-Pratt Transition Zone, Figure 6E, Potentiometric Surface Contour Map (March 7, 2022) – Pratt Coal Group, Figure 6F, Potentiometric Surface Contour Map (March 7, 2022) – Deep Upgradient Monitoring Wells (Middle to Lower Mary Lee Group), and Figure 6G, Potentiometric Surface Contour Map (March 7, 2022) – 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 2 to 3 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 the second semi-annual monitoring event, 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. Other factors, such as the underground Mary Lee

Mine, could influence deeper flow systems. 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 this 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, shows flow towards the Ash Pond and the underground Mary Lee coal mine. Additional data evaluation and monitoring is needed to explore this observation. 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.

Extensive de-watering has occurred within the Ash Pond as part of the closure process. On March 7, 2022, the average pond elevation was 404.48 ft MSL and down approximately 16 to 18 feet from historical operational levels (420 to 423 ft MSL). Groundwater elevations in multiple well locations were identified as potential lowerbound 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. Well locations MR-AP-MW-20HS and MR-AP-MW-33H are slightly below the lowerbound IQR threshold and do not have a large historical data set for evaluation. These wells and data are provided below.

Well	Lowerbound GW Elevation Threshold (IQR)	GW Elevation 3/7/2022	Distance below Lowerbound GW Elevation
MR-AP-MW-4	380.48	373.87	-6.61
MR-AP-MW-10	410.02	399.33	-10.69
MR-AP-MW-12	414.96	406.44	-8.52
MR-AP-MW-4V	335.03	331.68	-3.35
*MR-AP-MW-20HS	331.27	330.46	-0.81
MR-AP-MW-30H	352.69	348.37	-4.32
MR-AP-MW-31H	314.03	306.75	-7.28
*MR-AP-MW-33H	305.60	304.02	-1.58
MR-AP-MW-37H	329.34	314.84	-14.50

Conversely, multiple well locations exhibited an increase in groundwater elevation from the Fall 2021 sampling event and during a time of active ash pond dewatering. This data suggests either, an absence of, or poor hydraulic communication between the ash pond and these well locations. These well locations and data are provided below.

Well	GW Elevation 9/1//2021	GW Elevation 3/7/2022
MR-AP-MW-3S	347.96	348.45
MR-AP-MW-7DR	258.69	259.04
MR-AP-MW-13SR	428.84	429.38
MR-AP-MW-14R	410.48	411.09
MR-AP-MW-6V	259.99	260.47
MR-AP-MW-32H	260.03	261.18
MR-AP-MW-35H	294.01	295.95
MR-AP-MW-19H	158.96	163.03

Four downgradient and delineation wells displayed groundwater elevations above pond elevation (404.48 ft MSL) on March 7, 2022. These locations are spatially clustered east of central sections of the Ash Pond and are screened across Pratt and Gillespy-Pratt Transition flow systems. These data indicate a potential transition in flow direction where: (A) groundwater may flows towards the pond from the east or (B) a no flow boundary develops in the area.

Based upon the last three groundwater elevation readings, downgradient well MR-AP-MW-13SR is upgradient of the ash pond. Additional data collected in future events will be reviewed to evaluate this potential transition with wells MR-AP-MW-14R, MR-AP-MW-12, and MR-AP-MW-28H. Wells described in this section are provided below.

Well	GW Elevation 3/7//2022
MR-AP-MW-12	406.44
MR-AP-MW-13SR	429.38
MR-AP-MW-14R	411.09
MR-AP-MW-28H	405.45



Recent groundwater elevation data recorded since 2016 have been tabulated and included in **Table 3, Recent 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  $1.00 \times 10^{-3}$  cm/sec and  $6.00 \times 10^{-7}$  cm/sec. Hydraulic conductivity in the uppermost aquifer typically ranges between  $10^{-4}$  to  $10^{-5}$  cm/sec with an average  $6.15 \times 10^{-4}$  cm/sec.

The lowest estimated hydraulic conductivity value of  $6 \times 10^{-7}$  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 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..

All RPD's were below 20% for the most recent sampling event with the exception of calcium in the sample collected from MR-AP-MW-20HS and its field duplicate. Arsenic was detected at a concentration of 0.000305 mg/L in the sample and 0.000215 mg/L in the field duplicate, resulting in an RPD of 34.6%. However, since (1) neither result are 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 were observed in blank samples during the most recent sampling event. Chromium was detected in EB-1, FB-1, FB-3, FB-4, and FB-5. Molybdenum was detected in EB-1.

**Table 4b – Field QC: Blank Detections** provides a summary of these detected results. Each of these blank detections were estimated concentrations, above the MDL but below the RL, and qualified in the laboratory analytical reports with “J flags.” However, if concentrations are detected above the MDL in field QC samples, all original results less than five times the field QC detection are flagged with a (+) U\* and MDL/RL values modified.

Based on this validation procedure, the (+) U\* flag would be applied to 25 original well samples for chromium and 1 original well sample for molybdenum. Validated flags do not have an impact on possible statistical analyses due to: (1) low-level concentrations flagged during validation and or (2) constituents flagged are not Site COI. The extent of trace chromium detections in blanks can be explained by a low MDL value of 0.000203 mg/L.

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

Parametric tolerance limits (i.e. UTLs) were calculated using pooled upgradient well data for Appendix IV parameters with a target of 95% confidence and 95% coverage. The confidence and coverage levels

for nonparametric tolerance limits are dependent 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 assessment monitoring, when the Lower Confidence Limit (LCL), or the entire interval, exceeds the GWPS as discussed in the USEPA Unified Guidance (2009), the result is recorded as an SSL. 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 2022 semi-annual monitoring event in March 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 assessment monitoring parameters were evaluated to determine if concentrations statistically exceeded the established groundwater protection standard.

#### **5.3.1 Appendix III Constituents**

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

### 5.3.2 Appendix IV Constituents

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

The following subsections describe statistical exceedances.

#### 5.3.2.1 First Semi-Annual Groundwater Monitoring Event

##### 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.
- MR-AP-MW-3S: Lithium.
- MR-AP-MW-4: Lithium.
- MR-AP-MW-5: Arsenic, 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.

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: Cobalt, 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**

During the first semi-annual monitoring event, Appendix IV data were compared to background concentrations from newly installed upgradient well GS-AP-MW-17V. Using concentrations from MR-AP-MW-17V as a guide for site-specific background concentrations, the following SSLs were identified over GWPS at the listed downgradient wells:

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

The primary difference between the comparison using published GWPS and those based on background is the increased GWPS for lithium with the inclusion of site background and new upgradient well location GS-AP-MW-17V. This increased GWPS (from 0.04 to 0.0809 mg/L) reduces the number of lithium exceedances.

### **Delineation Wells**

Limited groundwater analytical data is available for delineation wells installed at the site; therefore, groundwater quality is simply compared to the GWPS. Similar to above, this comparison includes variance limits for non-MCL constituents and does not include site-specific background derived GWPS.



A review of analytical data derived from delineation wells revealed the following GWPS Exceedances for the first semi-annual sampling event:

- MR-AP-MW-4V: Cobalt, Lithium
- 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, Cobalt.
- MR-AP-MW-34H: Lithium.
- MR-AP-MW-35H: Arsenic.
- MR-AP-MW-36HR: Lithium.

**Observed Changes in Groundwater Quality**

Between the Fall 2021 and Spring 2022 sampling events, several changes in concentrations relative to the GWPS have been observed in Site compliance wells. On the western side of the Ash Pond, (1) cobalt concentrations in wells MR-AP-MW-4 and MR-AP-MW-6 declined below the GWPS and (2) the arsenic concentration in well MR-AP-MW-5 declined below the GWPS. The following contributing factors to these decreasing concentrations have been noted:

- Cobalt has been showing a predominate decreasing trend in well MW-4 since June 2017. Strong to moderate correlations with cobalt are:
  - Conductivity
  - TDS
  - Barium
  - Boron
  - Calcium
  - Lithium.

- Groundwater elevations in MW-4 has shown 2 successive decreases with each decrease greater in magnitude than std dev of historical range. Groundwater elevations likely lowering in response to lowering of pond level. DO has increased similarly while ORP has decreased.
- Cobalt in well MR-AP-MW-6 has generally been decreasing in concentration since 2018 and correlates with decreasing trends in DO, ORP.
- Arsenic in well MW-5 decreased below GWPS – this appears to be possibly related to broader decreasing trends in conductivity and pH.
- Molybdenum in wells MR-AP-MW-10 and MR-AP-MW-12 were evaluated as SSLs following statistical analysis of the March 2022 laboratory data. These are the first SSLs of molybdenum observed at the Site.

As described in **Section 3.2.2**, lithium can occur naturally at elevated concentrations in Pottsville Sequences and ranged from 1.4 to 128 mg/L (average of ~ 28 mg/L) in Pratt Coal Group strata queried from the NRCDS. Additionally, recent data from upgradients piezometers installed in the middle to lower portions of the Mary Lee Coal group suggest that higher concentrations of lithium are native to background water quality in deeper and coal measure screened wells. This information will be discussed further in **Section 6.0** as it pertains to delineation criteria.

**Table 6, First Semi-Annual Monitoring Event Analytical 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 18-096-GW) and correspondence from ADEM (March 2021), this report provides an update on groundwater delineation activities completed since the submittal of the Facility Plan for Groundwater Investigation (November 13, 2018). The primary purpose of this plan and subsequent phases of work were to identify the horizontal and vertical extent of groundwater impacts defined by EPA Appendix IV groundwater protection standards.

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

### **6.1 CHRONOLOGY OF DELINEATION ACTIVITIES**

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

#### **6.1.1 Delineation Wells**

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

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

Phase I was conducted between the dates of January 14, 2019 and August 15, 2019. **Table 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 two miles west-northwest of Plant Miller to assess the viability of using the well for background groundwater quality. The location was chosen based upon 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 the Department on May 13, 2019. This report recommended a second phase of groundwater investigation to complete delineation of groundwater impacts as required by Part B of the Order 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 the Department on July 11, 2019 as required by Part C of the Order.
- Submitted a Phase II – Groundwater Delineation Plan to the Department on August 15, 2019. This plan documented planned activities associated with proposed Phase II delineation efforts.
- On December 30, 2019, provided the Department with a response to comments received from the Department on November 14, 2019.

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

Following a review of data gathered from the Phase I Investigation, additional groundwater investigation was proposed to the Department 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. **Table 1a** through **1c** and **Figure 5** present details and locations of Phase II delineation well activities conducted between the dates of 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 workplan plan provided additions 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 two 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 3 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 GEOCHEMICAL DATA REVIEW**

A thorough review of existing data and recent boron isotopic results were conducted during the first semi-annual monitoring period of 2022 to evaluate lines of evidence supporting a geogenic source for lithium in site monitoring wells. The purpose of this data review was to guide (A) areas of the Site where additional delineation or assessment is necessary and (B) locations where geogenic or mine-enhanced sources of COI are strongly indicated. The following provides a summary of data review findings and a recommendation for future actions.

### **6.3.1 Geochemical Facies of Site Groundwater**

Piper diagrams are a graphical representation of the ionic concentrations of water samples presented on a ternary diagram. Concentrations of major cations (calcium, magnesium, sodium, potassium) and anions (chloride, sulfate, carbonate alkalinity, bicarbonate alkalinity) are normalized and undergo a matrix transformation for plotting on the diagram. Once plotted, samples can be grouped into discrete or mixed

geochemical facies which provides context as to the source and evolution of water quality. **Appendix E** shows where distinct geochemical facies and mixed facies plot on Piper Diagrams. **Table 7, Description of Geochemical Facies**, provides context as to the potential source, evolution, and age of water samples by geochemical facies.

Piper diagrams can be a useful tool for helping to determine or evaluate the source of constituents in groundwater and differentiating potential impacts from natural sources. One method for differentiating sources is to compare how ash pond water/pore water plots relative to groundwater samples. As shown on **Table 7**, CCR water chemistry plots near the top of the Piper Diagram, and generally falls within the calcium-chloride/sulfate facies or mixed calcium/magnesium chloride facies. Wells adjacent or within mine spoils can also display a calcium-chloride to sodium-chloride water type due to the weathering of silicates and accumulation of sulfate and chloride salts.

In comparison, water quality results in wells that display significantly different geochemical facies as well as a lack of mixing of facies, provide one line of evidence that these wells are not impacted by CCR leachate. **Table 8, Geochemical Facies in Site Groundwater** provides a summary of geochemical facies observed in Site wells. A notation is made if calcium chloride or sodium chloride facies overlap with strip mined areas and mine spoil materials.

### **6.3.2 Groundwater Age Classification**

Estimates of groundwater age quantify the date or potential range of dates for which groundwater recharged. For this study, the comparison of groundwater recharge dates vs the operational start date of the Plant Miller Ash Pond provides information as to whether groundwater recharged prior to or after the construction and operation of the Ash Pond. Additionally, groundwater recharge dates can be compared to time of travel estimates between individual wells and the Ash Pond boundary to determine if sufficient time has passed to allow migration of groundwater from the Ash Pond to the wells.

Tritium ( $^3\text{H}$ ) has been used as a tracer and to classify age of groundwater recharge. Tritium concentrations in the atmosphere and in meteoric precipitation have been studied since the era of thermonuclear weapon development and testing in the 1950s and early 1960s. It is well documented that the highest concentrations of tritium occurred between the late 1950s and early-to-mid 1960s correspondent to the peak of nuclear testing. Tritium concentrations began a sharp decline after the 1963 ban on nuclear testing treaty (Test Ban Treaty) went into effect. Small concentration increases were observed between 1978 and

1981 corresponding to France's testing of weapons during this time. Prior to, and after thermonuclear weapons testing, background atmospheric tritium concentrations are orders of magnitude lower. **Table 9, Tritium Thresholds for Estimating Age of Groundwater Recharge** provides a summary of tritium concentrations from recent history.

Historically, tritium concentration ranges have been used to determine if the source of tritium occurred prior to or after the period between 1953 and 1963. Lindsey et al. (2019) provided a revised template for evaluating tritium data for purposes of classifying age of groundwater recharge. In this paper, the authors outlined a method for classifying groundwater into three distinct groundwater age groups based upon tritium threshold concentration values: (1) "Premodern" – Older than 1953, (2) Mixed, and (3) Modern.

Tritium data collected from Site wells in April and May 2019 were analyzed using the method and template of Lindsey et al. (2019) as a guide. As atmospheric tritium concentrations vary considerably by longitude and latitude (increasing north and east across the continental US), modeled monthly tritium concentrations for longitudes 33 to 37 degrees and latitudes -85 to -90 degrees were used to reflect more site-specific values to be used in determining age classification thresholds. Tritium data used in these analyses were derived from the work of Michel et al. (2018) and Michel (1989) and data downloaded directly from the United States Geological Survey in a package supporting Michel et al. (2018).

Tritium data evaluation methodology included:

- Annualizing tritium data by monthly average (Average monthly concentration reflective of year)
- Time-series plotting of modeled tritium concentrations in precipitation from 1953 to 2012
- Averaging of tritium concentrations between 2008 and 2012 to use as representative concentrations for years 2012 to 2019 where no modeled data existed
- Time-series plotting of resulting tritium concentrations decayed to 2019 using a tritium half-life of 12.32 years
- Determination of Pre-modern threshold: (1) Estimate of 1952 tritium concentration decayed to 2019 or (2) Published value from Lindsey et al. (2019)
- Determination of Mixed-Modern threshold which is represented by the lowest value of decayed tritium post-1963
- Comparison of tritium concentrations in Site wells to the decayed tritium concentrations and threshold values.



Plots in **Appendix E**, shows modeled tritium concentrations in precipitation for latitudes between 33 and 35 degrees and longitudes -85 to -90 degrees. **Appendix E** also provides a plot of tritium concentrations decayed to 2019 for years 1953 to 2018. **Table 9** provides method determined thresholds for site-specific tritium age classification. **Table 10, Tritium Age Estimation and Interpretations**, provides age classification(s) by Site well sampled in May 2019.

### 6.3.3 Boron Isotopic Analyses

As boron and lithium behave similarly in groundwater (largely unreactive), boron isotopic results can provide an indication of the source of lithium. Boron isotopes have been studied and implemented as tracer for CCR impacts to groundwater (Davidson and Bassett, 1993; Ruhl et al., 2014). These studies have shown that coal or CCR sources are definitively identified by a distinctive negative  $\delta(11)\text{B}$  signature whereas other geologic and anthropogenic sources display positive ratios.

Historically, Plant Miller has used coals from the Appalachian Basin (Warrior Basin, AL) and Powder River Basin (WY). Data included in Ruhl et al. (2014) indicate that ash derived from Appalachian Basin coals display a  $\delta(11)\text{B}$  range of -2.7 to -17.6 ‰, Powder River Basin coals between -1.7 and -4.8 ‰, and a mixed Appalachian-Powder River Basin provided a value of -7.8 ‰.

A comparison of  $\delta(11)\text{B}$  values derived from Site groundwater monitoring wells and the reference values for Appalachian and Powder River Basin coal ash provides a useful tool for assessing wells potentially impacted by CCR leachate. As described above negative  $\delta(11)\text{B}$  values provide a line of evidence that boron is sourced from CCR leachate. Coal strata may also provide a negative  $\delta(11)\text{B}$  value but likely lower in magnitude. **Table 11, Isotopic Boron Results and Interpretation** provides  $\delta(11)\text{B}$  concentrations from Site groundwater monitoring wells sampled in September 2021 and source classification based upon the comparison of values to CCR thresholds.

### 6.3.4 Boron to Lithium Ratios

A comparison of boron-to-lithium ratios in groundwater to those of: (1) ash pore-water samples and (2) background groundwater can be used to further evaluate the source of lithium in Site groundwater. Boron and lithium are light elements that are relatively unreactive in groundwater. Due to this similarity in geochemical nature, boron-to-lithium ratios in Site groundwater that match ash pore-water provide a line of evidence that ash may be the source of lithium. Conversely, where boron-to-lithium ratios are

significantly different, this provides a line evidence that lithium may be derived from a natural source. A ratio similar to background would further suggest a natural source.

**Table 12, Reference Values for Boron-to-Lithium Ratios** provides reference values for ash pore-water and background groundwater boron-to-lithium ratios. These reference ratios provide the basis for comparison.

When boron isotopes and boron-to-lithium ratios agree, the interpretation of the lithium source is further strengthened. **Table 13, Boron-to-Lithium Ratios and Isotopic Boron Analyses** provides a synopsis of isotopic boron and boron-to-lithium results as well as source interpretation from these results. In total, this comparison provided analyses that indicate 5 wells show a strong signature of CCR leachate, 4 inconclusive wells where ratios and isotopes did not converge, and 22 wells indicating stronger signatures of naturally occurring boron and lithium. Average lithium concentrations from the 5 wells showing a strong CCR signature are 0.094 mg/L. Average lithium concentrations from the 22 wells with strong natural occurring signatures are 0.172 mg/L. In between these values, the average concentrations from the 16 inconclusive wells are 0.165 mg/L.

### 6.3.5 Lithium Correlations

Average lithium concentrations increase with depth at the Site. This factor suggests that lithium is naturally occurring at depths and along groundwater flowpaths. These increases are likely attributed to interactions with clay and silicate minerals within mudstones, shales, and coal seams. Average lithium concentrations in wells by well depth categories are observed at:

- <50 ft: 0.084 mg/L
- 50-100 ft: 0.080 mg/L
- 100-200 ft: 0.128 mg/L
- 200-300 ft: 0.199 mg/L
- 300-400 ft: 0.157 mg/L (1 well only).

Conversely, boron concentrations tend to decrease with depth at the Site. This further suggests a natural source of lithium at depth and along groundwater flow paths. Average lithium concentrations in wells by well depth categories are observed at:

- <50 ft – 0.082 mg/L
- 50-100 ft: 0.056 mg/L

- 100-200 ft: 1.33 mg/L (0.41 filtering out wells MW-10 and MW-12)
- 200-300 ft: 0.200 mg/L
- 300-400 ft: 0.160 mg/L (1 well only).

Boron-to-lithium ratios, on an aggregate and average basis, by these same depth categories are computed as:

- <50 ft – 6.21
- 50-100 ft: 4.45
- 100-200 ft: 2.04 to 6.61
- 200-300 ft: 0.64
- 300-400 ft: 0.65

Using the reference values for boron-to-lithium ratio values presented in **Table 12** for comparison, this aggregate data suggests on aggregate that a natural signature or ratio begins in the 100 to 200 ft depth category and extends down to the 300 to 400 ft depth category. This data matches well with the combined boron-to-lithium and isotopic boron analyses which indicates that the 5 wells showing stronger CCR signatures displayed an average lithium concentration of 0.094 mg/L – which falls closely to the 0.084 mg/L and 0.080 mg/L averages in the <50 ft and 50 to 100 ft depth categories.

### **6.3.6 Groundwater Elevation Response to Dewatering**

Extensive de-watering has occurred within the Ash Pond as part of the closure process. On March 7, 2022, the average pond elevation was 404.48 ft MSL and down approximately 16 to 18 feet from historical operational levels (420 to 423 ft MSL). Groundwater elevations in multiple well locations were identified as potential lowerbound 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. Well locations MR-AP-MW-20HS and MR-AP-MW-33H are slightly below the lowerbound IQR threshold and do not have a large historical data set for evaluation. These wells and data are provided below.

Well	Lowerbound GW Elevation Threshold (IQR)	GW Elevation 3/7/2022	Distance below Lowerbound GW Elevation
MR-AP-MW-4	380.48	373.87	-6.61
MR-AP-MW-10	410.02	399.33	-10.69
MR-AP-MW-12	414.96	406.44	-8.52
MR-AP-MW-4V	335.03	331.68	-3.35
*MR-AP-MW-20HS	331.27	330.46	-0.81
MR-AP-MW-30H	352.69	348.37	-4.32
MR-AP-MW-31H	314.03	306.75	-7.28
*MR-AP-MW-33H	305.60	304.02	-1.58
MR-AP-MW-37H	329.34	314.84	-14.50

Conversely, multiple well locations exhibited an increase in groundwater elevation from the Fall 2021 sampling event and during a time of active ash pond dewatering. This data suggests either, an absence of, or poor hydraulic communication between the ash pond and these well locations. These well locations and data are provided below.

Well	GW Elevation 9/1//2021	GW Elevation 3/7/2022
MR-AP-MW-3S	347.96	348.45
MR-AP-MW-7DR	258.69	259.04
MR-AP-MW-13SR	428.84	429.38
MR-AP-MW-14R	410.48	411.09
MR-AP-MW-6V	259.99	260.47
MR-AP-MW-32H	260.03	261.18
MR-AP-MW-35H	294.01	295.95
MR-AP-MW-19H	158.96	163.03

Four downgradient and delineation wells displayed groundwater elevations above pond elevation (404.48 ft MSL) on March 7, 2022. These locations are spatially clustered east of central sections of the Ash Pond and are screened across Pratt and Gillespy-Pratt Transition flow systems. These data indicate a potential transition in flow direction where: (A) groundwater may flows towards the pond from the east or (B) a no flow boundary develops in the area.

Based upon the last three groundwater elevation readings, downgradient well MR-AP-MW-13SR is upgradient of the ash pond. Additional data collected in future events will be reviewed to evaluate this

potential transition with wells MR-AP-MW-14R, MR-AP-MW-12, and MR-AP-MW-28H. Wells described in this section are provided below.

Well	GW Elevation 3/7//2022
MR-AP-MW-12	406.44
MR-AP-MW-13SR	429.38
MR-AP-MW-14R	411.09
MR-AP-MW-28H	405.45

### 6.3.7 Data Clustering

Agglomerative Clustering is a type of hierarchical clustering algorithm. It is an unsupervised machine learning technique that divides data set populations into several clusters such that data points in the same cluster are more similar and data points in different clusters are dissimilar. For high dimensional data, dendograms or silhouette ranking can be utilized to assess optimal numbers of clusters.

Analytical data from monitoring wells and source sampling locations were processed via an agglomerative clustering algorithm to explore for patterns and potential relationships. In developing this approach, the average concentration of all Appendix 3, Appendix 4, general chemistry, and field parameter data up through the Fall 2021 sampling event were utilized as input. Principal component analyses (PCA) was also conducted on the same data set. PCA and clustering both indicate that data for the Site are best suited for cluster sizes between 4 and 6. **Table 14, Agglomerative Clustering Results** provides grouping by well or sample location.

In reviewing the clustering results, the 5 wells identified as displaying strongest CCR signatures in **Section 6.3.5** grouped entirely in Branch 1 with 4 in Cluster A and 4 in Cluster B. Of the 4 wells labeled as inconclusive in the previous subsection – 2 map to Cluster B and 2 to Cluster C. Of the remaining 22 wells with stronger natural signatures, 19 grouped in Branch 2 with 6 in Cluster C and 13 in Cluster E and, 4 grouped in Branch 1 with 1 in Cluster A and 3 in Cluster B. The following provides a summary of findings and interpretations from clusters:

- 1) Deeper, Mary Lee Coal and Flow System Wells group together in Branch 2, Cluster E (5 of 6 wells).
- 2) Sodium-chloride (5 of 7 wells) and Sodium-bicarbonate (2 of 2 wells) geochemical facies cluster in Branch 2, Cluster E.

- 3) Calcium-Magnesium Bicarbonate and Calcium Chloride-Bicarbonate geochemical facies in cluster in Branch 2, Cluster C.
- 4) Calcium-Chloride geochemical facies group primarily in Cluster B (7) and Cluster C (3) with 2 in Cluster A and 3 in Cluster E.

Cluster A well locations correlate to shallow Pratt to Pratt-Gillespy transition located to the northeast and south of the Ash Pond. Cluster B well locations correlate to well locations immediately downgradient of the previous strip mine (MW-10 through MW-12) as well as locations closest to the western edge of the waste boundary in northern and central sections of the pond.

Spatially, Cluster C well locations are fairly well grouped to the east and southwest. These locations are generally more shallow in depth and monitor recharging or younger mixing waters. Cluster E is comprised equally by deeper wells to the west of the Ash Pond with 5 of 6 Mary Lee coal seam wells contained in this cluster as well as shallower wells west of the Ash Pond such as MW-3S, MW-5, and MW-20HS.

Cluster C and E well locations are laterally and vertically downgradient of Cluster B wells. Cluster C locations are also laterally downgradient of Cluster A locations to the south and east-southeast. CCR source locations plotted in Branch 1, Cluster A and Branch 2, Cluster D. The data suggest that Branch 1, Clusters A and B are most strongly related to potential impacts whereas Clusters C and E suggest less potential impacts and more of a natural source. Cluster D pore-water locations are most closely related to upgradient piezometers at the Site such as MW-23, MW-23A, MW-22I, and MW-22D.

### **6.3.8 Interpretation and Recommendations**

Data discussed and presented in **Section 6.3** was evaluated across the spectrum, in aggregate, and against reference values described. Boron isotopes and boron-to-lithium ratios provided an initial understanding of the likeliest potential sources of COI for wells. After this review, it was determined that 9 wells – 4 compliance and 5 delineation, provided ambiguous or uncertain results. Upon review of all data analyses, updated interpretations addressed the status of these 9 well locations.

**Table 15, Summary of Technical Data Evaluation and Recommendations** list the factors and interpretation of source for all wells where SSLs or concentrations over GWPS have been previously observed. As **Table 16** shows – 21 wells are attributed as natural sources, 7 wells as most likely CCR signatures, and 2 that remain ambiguous.

**Table 15** also recommends additional ASD or geogenic study as to the natural occurrence and mobility of COI in Site geologic media. Additional study was recommended at 8 locations and comprise all of the major flow systems and stratigraphy at the Site. A goal of the study is to further understand geogenic occurrences by lithology and phase.

The recommended study would be similar to that of the recent one completed for the Plant Gorgas Gypsum Pond and would focus on:

- (1) Bulk chemistry of core samples
- (2) Mineralogical assessments which may include X-Ray Diffraction, TIMA-X, and microprobe analyses
- (3) Correlations amongst elemental and mineralogical analyses, and
- (4) Mobility of COI through leach testing and sequential extraction.

Groundwater delineation progress, status, and additional recommendations based upon these findings are discussed in the next section.

#### **6.4 DISCUSSION OF DELINEATION RESULTS**

A thorough review of existing data and recent boron isotopic results were conducted during the first semi-annual monitoring period of 2022 to evaluate lines of evidence supporting a geogenic source for lithium and other COI in site monitoring wells. The results of this study indicated CCR as the likely source of lithium/COI at the following compliance wells and delineation wells:

- MR-AP-MW-3D
- MR-AP-MW-4
- MR-AP-MW-6
- MR-AP-MW-4V
- MR-AP-MW-10
- MR-AP-MW-12
- MR-AP-MW-30H

The results of the study provided an inconclusive determination of source at the following compliance wells and delineation wells:

- MR-AP-MW-28H
- MR-AP-MW-20HS

Although, data reviewed to date suggests naturally occurring COI signatures, additional geogenic/ASD laboratory work and data analyses were recommended in **Table 15** to solidify occurrences and mobilization of COI (similar to the recent Plant Gorgas Gypsum Pond study). Additional study was recommended at the following locations:

- MR-AP-MW-2
- MR-AP-MW-5
- MR-AP-MW-7DR
- MR-AP-MW-11

Additional geochemical analyses on groundwater samples as well as mineralogical, bulk chemistry, and sequential extraction analyses on rock core samples will be conducted on select wells categorized in the inconclusive category..

Groundwater Monitoring and Corrective Action reports for the Plant Miller Ash Pond have identified SSLs in groundwater for arsenic, lithium and molybdenum. Isoconcentration maps for arsenic, lithium, and cobalt are presented in **Figures 7** through **9**, respectively.

Isoconcentration lines shown on **Figures 7** through **9** are data-driven contours derived from the spatial distribution of constituent concentrations in the well network. When spatially distributed objects are spatially correlated (objects close to together have similar characteristics) interpolation analysis can be used to predict “unknowns” between objects. ArcGIS and geostatistical analyst are utilized 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 in between well pairs, the extent of groundwater impacts are interpreted from the interpolated (predicted) data set. This method takes into account 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 1c**, 17 delineation wells have been installed at the site to assess potential impacts. Additionally, 3 delineation wells were installed but did not produce sufficient groundwater yield to sample (**Table 1b**).

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 6.2** provides a recommended path forward.

### **Arsenic Delineation**

At the Site, arsenic has exceeded the GWPS at compliance wells MR-AP-MW-3D and MR-AP-MW-5, and more recently, delineation well MR-AP-MW-35H. **Figure 7, Arsenic Isoconcentration Map (March 2022)**, shows the locations and extent of arsenic concentrations over the 0.01 mg/L GWPS. Figures were not subdivided by flow system because arsenic exceedances are so limited. Arsenic SSLs are limited to the Mary Lee – Gillespy Transition Zone and the Gillespy Lower Discrete Flow Interval. These two flow systems are separated by 50 to 100 feet of strata and as described below, the Mary Lee – Gillespy Transition Zone was not observed to be productive further west or south of MR-AP-MW-3S/3D.

#### **Mary Lee – Gillespy Transition Zone**

Proximal to MR-AP-MW-3D, (1) the more 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. This data shows 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 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/yield coming from it. Therefore, 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 non-detect.

Following the most recent sampling event, statistical analyses indicated that arsenic was no longer an SSL in well MR-AP-MW-3D. However, two additional locations will be attempted to characterize lithium which still exceeds. If successful, arsenic data will be evaluated in light of historical observations at MR-AP-MW-3D. These locations will be situated generally as:

- (1) South of MR-AP-MW-18H along the same ridge line.
- (2) South of MR-AP-MW-3S/3D –
  - a. Close to MR-AP-MW-4 AND/OR
  - b. Adjacent to MR-AP-MW-5, MR-AP-PZ-5.

#### Gillespy Lower Discrete Flow Interval

The delineation of arsenic exceedances at MR-AP-MW-5 follows a similar trajectory as described above. During the March 2022 sampling event, the arsenic concentration in well MR-AP-MW-5 decreased to 0.00987 mg/L which is below the arsenic MCL. MR-AP-MW-5 was found to have an inconclusive source of COI – due to a boron isotopic signature more representative of meteoric/natural weathering sources and tritium value that represents the potential for groundwater to be older than the ash pond (1971 to 1978).

The original geophysical and hydrophysical log (Original Log Title: Geophysical Record of Borehole 4) demonstrated prominent upward flow emanating from two fractures centered at approximately 54 feet and 56 feet depth. A notable second flow system was encountered at the Mary Lee coal seam where upward groundwater flow was observed between 218 feet and 230 feet depth. MR-AP-MW-5 was screened across the more prominent upper flow interval and MR-AP-PZ-5 was screened across the lower Mary Lee flow interval. Arsenic concentrations in MR-AP-PZ-5 have ranged from non-detected to 0.0063 mg/L and serve to show vertical delineation at least down to the Mary Lee Coal Seam.

Similar to MR-AP-MW-3D, horizontal delineation locations west of MR-AP-MW-5 are restricted by sloping topography as well as the Miller spillway, or outfall conveyance, which resides adjacent to MR-AP-MW-5. Therefore, MR-AP-MW-19H and MR-AP-MW-19HA, were installed on the north to south trending ridgeline situated west of the Ash Pond. MR-AP-MW-19H was bored down to a depth of 206 feet initially but borehole geophysics and hydrophysical logging revealed no groundwater flow zones. The borehole was then extended down to a depth of approximately 265 feet and re-logged with the same geophysical and hydrophysical suite of tools. The interval from 206 to 265 did not contain a discernible flow system either. Given the absence of groundwater flow signatures, the decision was made to backfill the hole and screen the equivalent stratigraphic interval as is screened by MR-AP-MW-5. Not unexpectedly, given field and geophysical observations, MR-AP-MW-19H did not yield groundwater at a sufficient rate for development or sampling. In fact, the groundwater elevation data provided in **Table 3**, shows that the well is still slowly, recovering 2 years after development

During the phase 2 field investigation, a replacement well, MR-AP-MW-19HA, was advanced to and screened across the deeper Mary Lee coal flow zone monitored in MR-AP-PZ-5. Geophysical and hydrophysical logging provided strong indications of flow emanating from the Mary Lee. Analytical results from MR-AP-MW-19HA show both low-level, and decreasing arsenic concentrations, well below the GWPS.

Additionally, since horizontal delineation was not feasible immediately to the west, MR-AP-MW-33H, was installed to the north of MR-AP-MW-5 to assess arsenic concentrations in the same flow interval downgradient of the ash pond dam (Gillespy Lower Discrete Flow Interval). Strong signs of groundwater flow were observed between depths of 29 and 40 feet BGS. Stratigraphically, the location of MR-AP-MW-33H, is approximately 46 feet updip of MR-AP-MW-5 and therefore, the bottom portions of the MR-AP-MW-33H well screen interval overlap with that of the MR-AP-MW-5 well screen. Arsenic

concentrations from well MR-AP-MW-33H have ranged from 0.00362 (J) mg/L to 0.0047 (J) mg/L and are well below the GWPS for arsenic.

Downgradient of MR-AP-MW-5, MR-AP-MW-20H also monitors the Gillespy Lower Discrete Flow Interval and similar to MR-AP-MW-33H, has provided only trace to non-detected concentrations of arsenic. Similarly, within this flow system, MR-AP-MW-4V located further to north has only provided trace to non-detected concentrations of arsenic.

Therefore, laterally and vertically, arsenic concentrations over the GWPS in the Gillespy Lower Discrete Flow Zone appear to be delineated to the extent feasible. Two factors support delay in additional delineation: (1) decrease in arsenic concentration below the MCL and (2) study showing inconclusive source. The recommended path is to perform the following activities in parallel: (1) conduct mineralogical, bulk chemistry, and sequential analyses from flow interval core samples, (2) scout feasibility for additional delineation to the west, and (3) evaluate all results along with Fall 2022 sampling event results for final recommendation.

Additionally, another well offset from MR-AP-MW-5, targeting the Mary Lee – Gillespy Transition Zone will be attempted (if feasible) to delineate lithium concentrations observed in MR-AP-MW-3D. This will, if successful, also add additional vertical delineation data in the area – including arsenic.

#### Mary Lee Coal Group

As shown on **Figure 7**, Arsenic has also 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 rationale for this are:

- (1) Groundwater flow direction is generally towards the Ash Pond and Locust Fork – indicating that 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.

### **Lithium Delineation**

As presented in **Section 5.3.2**, lithium exceedances downgradient of the Plant Miller Ash Pond are the most numerous. The numbers show 30 lithium exceedances, 3 arsenic exceedances, 4 cobalt exceedances, and 2 molybdenum (Lithium = 77% of exceedances). This pronounced skewness could indicate that a GWPS of 0.04 mg/L is not representative of lithium concentrations in upgradient/background groundwater. **Figure 8A, Lithium Isoconcentration Map (March 2022)**, provides an illustrations of lithium concentrations.

Upgradient 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 this data suggests that background lithium concentrations are quite commonly elevated in respect to 0.04 mg/L and also display naturally variability. **Table 16, 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 thirteen 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 Coal - Lithium Isoconcentration Map (March 2022)**, presents a lithium concentration pattern that generally appears to be increasing with distance away from the ash pond. This pattern may suggest that an alternate or natural source of elevated lithium occurs within the Mary Lee coal. This pattern is also consistent with the March 2020 potentiometric surface map (presented in the 2020 Annual Groundwater Monitoring and Corrective Action Report) which showed a hydraulic gradient towards 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 16** 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). As documented in **Table 15**, additional data evaluations show that elevated occurrences of lithium and other COI in the Mary Lee flow system are dominated by signatures of natural occurrence.

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 likely 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 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 as if the Mary Lee Flow System is a pathway for contaminant migration or is hydraulically connected to the ash pond.

Geochemically, a Piper Diagram presented in **Appendix E**, 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 correlates well with site hydrogeologic and geologic data and further suggests that the Mary Lee is not a potential pathway for COI migration.

The sample from MR-AP-MW-2 plotted in the upper quadrant which indicates a calcium chloride water type. This water type does match the typical water type of CCR pore water and thus, 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 suggests a natural/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 purposes 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 3 sampling events. This following an increasing trend which began in 2018. MR-AP-MW-3S was classified as most likely having a natural/geogenic source of lithium in the attached study. The rationale supporting this classification are boron isotopic analyses, boron to lithium ratios, geochemical facies indicative of older or different water from pore-water, and lack of groundwater elevation response to ash pond dewatering.

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. This data shows 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. 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 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/yield coming from it. Therefore, 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/early spring (0.0875 to 0.10 mg/L) and much higher concentrations in the late summer/early fall (0.215 to 0.230 mg/L). To date, 1 sample has been collected in the late spring/early summer (May 2021 – most recent), and the concentration observed, 0.1670 mg/L, falls nearly half-way 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.

The Piper diagram presented in **Appendix E** further suggests 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.

Additional delineation is needed, but may not provide successful, as data suggest that the discrete flow systems in MR-AP-MW-3S and MR-AP-MW-3D are not laterally continuous or productive. Two additional locations will be attempted:

- (1) South of MR-AP-MW-18H along the same ridge line.
- (2) South of MR-AP-MW-3S/3D –
  - a. Close to MR-AP-MW-4 OR
  - b. Adjacent to MR-AP-MW-5, MR-AP-PZ-5.

Gillespy – Lower Discrete Flow Zone



**Figure 8C, Gillespy Lower Discrete Zone – Lithium Isoconcentration Map (March 2022)**, present lithium concentrations observed in this discrete flow zone - which resides approximately 150 to 160 feet above the base of the Mary Lee coal seam. Lithium concentrations ranged from 0.0371 to 0.267 mg/L in this flow zone.

The pattern observed on **Figure 8C** is one of increasing concentrations along the flow path away from the ash pond. Historically, MR-AP-MW-4V, located most proximal to the ash pond, has demonstrated concentrations below or near the GWPS and therefore, provided northern delineation. However, during the March 2022 sampling event lithium concentrations increased to 0.12 mg/L. To the south, increased concentrations may be related to: (A) location of dam providing higher driving force (gradients) for preferential flow, (B) increased hydraulic communication via vertical fractures, or (C) increasing contributions of alternative or natural sources of lithium along the flow path.

Additional assessment is needed. Additional locations will be targeted (1) southwest of MR-AP-MW-33H, (2) adjacent to MR-AP-MW-32H, and, (3) adjacent to MR-AP-MW-7DR. The hydrophysical logs obtained from MR-AP-MW-19HA indicates that this discrete flow zone is not present to the west of MR-AP-MW-5. Consistent with the groundwater flow pattern presented on **Figure 6B** and increasing concentration patterns to the south (**Figure 8C**), additional delineation wells are better suited to the south of where MR-AP-MW-19HA is located.

#### Gillespy – Lower Sandstone Interval

**Figure 8D, Gillespy Lower Sandstone Interval – Lithium Isoconcentration Map (March 2022)**, present lithium concentrations observed in this discrete flow zone - which resides approximately 60 to 70 feet above the Gillespy Lower Discrete Flow Zone (presented **Figure 8C**) and approximately 250 feet above the base of the Mary Lee coal (presented **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 three wells are installed across this interval. Lithium concentrations ranged from non-detect to 0.130 mg/L in this flow zone.

Groundwater elevations in this flow interval are unique as (1) hydraulic gradients are minimal, (2) groundwater elevations indicate no connection with the ash pond (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 as if there is a small upward vertical

gradient from the Gillespy Lower Discrete Flow Zone towards the Lower Sandstone Interval, although more data would be needed to state that explicitly.

As shown on **Figure 8D**, the Lower Sandstone Interval is delineated to the south by well MR-AP-MW-32H, which given the apparent groundwater flow direction on **Figure 6C**, is not surprising. Additional evaluation and delineation is needed to further evaluate lithium in this flow interval. Based upon groundwater flow direction, efforts should be concentrated to the east.

The results of the technical data evaluation presented in the previous subsection shows a dominant natural signature of COI in well MR-AP-MW-6V and inconclusive geochemical signature in well MR-AP-MW-7DR. It is recommended that further ASD evaluation be conducted in core samples from MR-AP-MW-7DR prior to further assessment. The northern extent of potential impacts can be assumed based upon structural dip and where this flow system/strata would daylight to the north.

#### Gillespy – Upper Sandstone Interval

**Figure 8E, Gillespy – Pratt Transition Zone – Lithium Isoconcentration Map (March 2022)**, present lithium concentrations observed in this zone - which resides approximately 25 to 70 feet above the Gillespy Lower Sandstone Interval (presented **Figure 8D**). The lower screened intervals of this zone, captured by wells MR-AP-MW-7S and MR-AP-MW-27HR, are likely discrete intervals confined from wells installed higher stratigraphically, and presented on **Figure 8E**. It is also 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 and as presented in **Figures 8B-8D**.

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 which 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, as wells would likely not provide representative groundwater quality, and could introduce additional sources of lithium, including coal storage, weathered mine backfill, and mine impoundments. A single, additional delineation well southeast of MR-AP-MW-7SR could be

installed to add additional coverage near the property line. However, this area of the site is also adjacent to the Pratt Coal Group mine noted above.

To the north, lithium concentrations are above the GWPS in well MR-AP-MW-16, but it has not been observed as an SSL. Lithium concentrations in this well have shown a decreasing trend over the last 3 sampling events..

### Pratt Group

**Figure 8F, Pratt Coal Group – Lithium Isoconcentration Map (March 2022)**, present 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 has been removed southeast of the ash pond. Further southeast and adjacent to these mines, are a coalbed methane degasification field.

Therefore, no additional horizontal delineation is feasible to the southeast in the Pratt Coal Group flow system. Boron isotope sampling and analyses is 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 may indicate an alternative source for some of these wells.

### Cobalt Delineation

**Figure 9, Cobalt Isoconcentration Map (March 2022)**, shows that cobalt exceedances at the Site are mostly observed west of the ash pond. Cobalt concentrations in wells MR-AP-MW-2, MR-AP-MW-4, and MR-AP-MW-6 have all sharply and steadily declined since the initial background sampling event –

suggesting a localized and finite source of cobalt rather than a sustained source such as the ash pond. This is supported by the fact that cobalt has historically been non-detected in 2 of 3 pore-water sampling locations and the max concentration observed has been 0.0192 mg/L. These facts strongly suggest an alternate source of cobalt.

Treated as a potential impact to groundwater, cobalt has been vertically delineated at compliance well locations MR-AP-MW-2, MR-AP-MW-4, MR-AP-MW-6, and MR-AP-MW-13SR. Wells MR-AP-MW-4, MR-AP-MW-6, and MR-AP-MW-13SR are located in the stratigraphically higher Gillespy-Pratt transition zone and Pratt Coal Group. Each of these locations are delineated by paired vertical delineation wells: MR-AP-MW-4V, MR-AP-MW-6V, and MR-AP-MW-13DR (compliance well). With the exception of MR-AP-MW-4V, these data indicate that cobalt concentration above the GWPS do not extend into the deeper Gillespy Lower Sandstone or Gillespy Lower Discrete flow systems on the west side of the ash pond, or in the case of MR-AP-MW-13SR, down into the Gillespy-Pratt transition zone.

It is also noteworthy, that well MR-AP-MW-13SR, has (1) a groundwater elevation higher than the ash pond – 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.

Laterally, cobalt is to delineated (1) to the west of MR-AP-MW-4 by MR-AP-MW-34H, (2) southwest and southeast of MR-AP-MW-6 by 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. 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. As shown on **Figure 6B**, the primary flow direction in the Gillespy Lower Discrete Flow Zone is to the south and south-southwest rather than west.

The cobalt exceedance in well MR-AP-MW-2 is considered vertically delineated as 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 is 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. As mentioned in the lithium delineation section, boron isotope sampling and analyses will be conducted at MR-AP-MW-2 prior to further delineation. Laterally, cobalt is below GWPS to north (MR-AP-MW-35H), to the west (MR-AP-MW-17H), and south (MR-AP-MW-18H). All of these wells are screened across the Mary Lee or within Mary Lee Coal Group strata (MW-17H and MW-35H).

### **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 and therefore, can be considered delineated horizontally.

Vertical delineation wells targeting productive intervals below the American coal seam are however necessary. These wells likely will target the Pratt-Gillespy transition zone.

## **6.5 STATUS OF DELINEATION**

Upon review and better understanding of site hydrostratigraphy, additional on-site delineation is recommended. Recommended additional delineation is strongly focused south of the Ash Pond where multiple flow systems provide preferential pathways and are influenced by topographically driven hydraulic gradients south of the dam. Additionally, boron isotopic analyses are recommended to discern nature of COI where existing data suggests an alternate source is viable. The following summarize, at a high level, the plan for Phase 3 delineation and assessment activities.

### **Mary Lee – Gillespy Transition Zone**

#### **Arsenic and Lithium Delineation**

- (1) South of MR-AP-MW-18H along the same ridge line.
- (2) South of MR-AP-MW-3S/3D –
  - a. Close to MR-AP-MW-4 AND/OR
  - b. Adjacent to MR-AP-MW-5, MR-AP-PZ-5

### **Gillespy Lower Discrete Interval**

#### **Lithium Delineation**

- (1) southwest of MR-AP-MW-33H
- (2) adjacent to MR-AP-MW-32H
- (3) adjacent to MR-AP-MW-7DR

#### **Arsenic and Lithium Delineation (1)**

- Evaluate field conditions and feasibility of access to areas west of MR-AP-MW-5 for potential delineation well.

### Cobalt Delineation

- (1) Vertical delineation well offset from MR-AP-MW-4V

### Gillespy-Pratt Transition Zone

#### Lithium Delineation (1)

- (1) Attempt installation of delineation well south or southeast of MR-AP-MW-7SR

### Pratt Flow System

- (1) Vertical delineation well offset from MR-AP-MW-10
- (2) Vertical delineation well offset from MR-AP-MW-12

As described in **Section 6.2**, the data suggests additional off-site delineation to the southeast is needed for lithium only. However, in the case of the Pratt Coal Group, the adjacent properties to the southeast are surface mines where the Pratt Coal Group has been physically removed. Therefore, this flow system is no longer present and there would be no strata to screen. In the case of the Gillespy-Pratt transition zone, it is unlikely that concentrations of lithium would be representative of the same flow system at Plant Miller and it may also be possible that this system has been partially dewatered during coal mining activities.

No additional delineation is recommended at this time for the Mary Lee flow system due to the apparent lack of hydraulic connection as discussed in multiple sections of this report. Boron isotope sampling and analyses is planned for MR-AP-MW-2.

It should also be noted that lithium concentrations in recently installed upgradient piezometers have higher concentrations than all downgradient and delineation wells. Even excluding MR-AP-MW-23 and MR-AP-MW-23A from this potential pool of upgradient data, the only well exceeding would likely be MR-AP-MW-11. Therefore, the additional delineation plans detailed above would not be required when comparing this to background concentrations in these deeper and coal measure screened piezometers. Additional discussions are needed to clarify the path forward with respect to these points.

## 6.6 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.

### 6.6.1 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 or 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. Additionally, permeation grouting can also 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 upon the evidence gathered during initial investigations - which highlighted that these processes are already occurring.

### **6.6.2 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 chunked the program into two stages.

- Stage 1 will include ongoing compliance monitoring, remedial effectiveness monitoring for permeation grouting, MNA performance monitoring, sentinel/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. Plan, 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.
Source Control/Closure Activities	1. Evaluation of geochemical changes in groundwater with respect to transient closure activities (excavation, de-watering, etc). 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 March 2022 sampling event (Table 6). These parameters in addition to field parameters, Appendix III, and Appendix IV parameters are utilized to study the processes that govern or facilitate MNA as well as changes in geochemical conditions. Parameters will be included into the site geochemical model.

Additionally, via continued data evaluation for delineation and assessment of potential geogenic sources of COI, additional assessment wells have been recommended as detailed in **Section 6.3**.

**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: Finalized Late August/Early September 2022.
- Fracture-Flow Field Study and Data Analyses – 4<sup>th</sup> quarter 2022 to 2<sup>nd</sup> quarter 2023
- Permeation Grouting Pilot Program – TBD, pending requisite documents and approvals supporting the injection program.

#### **Source Control/Closure Activities**

The primary task and objectives at the on-set 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 may 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 benefits/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/Geochemical Correlations cross-referenced to by recent or active ash pond closure activities.

To facilitate further understanding of trends and correlating relationships, AquaTROLL instrumentation is being installed at select key monitoring well locations for the near continuous monitoring of field parameters. This 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/changes noted in semi-annual monitoring data.

AquaTROLL instrumentation will be installed during the 3<sup>rd</sup> quarter of 2022 (pending supply chain issues) 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.

### **6.6.3 Changes in Groundwater Quality**

This section is meant to highlight key or important observations in groundwater quality changes and potential causal mechanisms and relationships. The focus of this section is compliance boundary wells which have the longest historical record of analytical data, and conceptually, should be the first locations where changes are observed.

#### **Concentration Changes with Respect to Site GWPS**

Between the Fall 2021 and Spring 2022 sampling events, several changes in concentrations relative to the GWPS have been observed in Site compliance wells. On the western side of the Ash Pond, (1) cobalt concentrations in wells MR-AP-MW-4 and MR-AP-MW-6 declined below the GWPS and (2) the arsenic concentration in well MR-AP-MW-5 declined below the GWPS. The following contributing factors to these decreasing concentrations have been noted:

MR-AP-MW-4

- Cobalt has been showing a predominate decreasing trend in well MW-4 since June 2017. Parameters demonstrating strong to moderate, positive correlations (similarly decreasing/trending) with cobalt are:
  - Conductivity
  - TDS
  - Iron
  - Barium
  - Boron
  - Calcium
  - Lithium.
- Groundwater elevations observed from well MR-AP-MW-4 have shown 2 successive decreases with each decrease greater in magnitude than the standard deviation of historical range. Groundwater elevations in this well are likely lowering in response to lowering of pond level. DO and pH have increased each of the last 3 sampling events whereas ORP has generally been decreasing overall with each of these factors potentially related to pond lowering.
- Boron has demonstrated strong seasonality since the June 2017 sampling event where concentrations are greater in the Fall than Spring/Summer months. Since 2019, this seasonal pattern has remained but has tilted downward indicating a shift to a decreasing trend.

The decreasing trend and decrease of cobalt below the GWPS likely initiated with a return to geochemical equilibrium disturbed initially by the well installation process. Increasing pH, potentially related to pond lowering during the last 3 sampling events, has likely been a driver for the reduction of cobalt as pH values above 6 to 6.5 begin to drive cobalt out of solution. Decreasing iron suggests a mechanism co-precipitation.

MR-AP-MW-5

- Arsenic in well MW-5 decreased below GWPS – this appears to be possibly related to broader decreasing trends in conductivity and pH.

MR-AP-MW-6

- Cobalt in well MR-AP-MW-6 has generally been decreasing in concentration beginning in 2019 and shows a correlation with a slight uptick in pH beginning in the Fall of 2018.

MR-AP-MW-10

Arsenic in well MR-AP-MW-10 increased sharply during the March 2022 sampling event. During this event arsenic increased to 0.061 mg/L and is a sharp departure from historical concentrations which have ranged typically between 0.001 and 0.003 mg/L. Strong correlations or associated trends were noted, including:

- Sharp increase in DO
- Increase in pH
- Increase in sodium
- Increase in boron
- Decrease in iron
- Decrease in sulfate
- Decrease in calcium
- Decrease in chloride
- Decrease in barium

This sharp increase in arsenic appears to be related to a pulse of higher dissolved oxygen in groundwater. The weathering or oxidation of arsenic-bearing iron-sulfide minerals is likely the primary factor for the increase in arsenic concentrations. A re-sample for arsenic in May 2022 showed that concentrations declined to 0.04 mg/L – a change that was also accompanied by a decrease in DO and a decrease in pH.

MR-AP-MW-12

Molybdenum was designated as an SSL following the March 2022 sampling event. Molybdenum has been increasing in concentration since 2018 and thus, appears unrelated to ash pond closure activities. This increasing molybdenum trend has a correlation with (A) increasing conductivity, arsenic, iron, sodium, and sulfate, and in contrast, with decreasing (B) barium, calcium, and magnesium.

**Trends – Lithium**

The following downgradient compliance wells show decreasing trends for lithium:

- MR-AP-MW-4
- MR-AP-MW-12

Wells MR-AP-MW-3S and MR-AP-MW-11 have shown generally increasing trends but have recently shown sharp or notable decreases. MR-AP-MW-3S and MR-AP-MW-11 show similar patterns with increasing trends noted to begin in 2018 with notable decreases over the most recent 3 sampling events.

### **Trends – Cobalt**

In aggregate, the average cobalt concentration in downgradient compliance wells has fallen year over year. Average cobalt concentration by year is provided below.

- 2016: 0.0189 mg/L
- 2017: 0.0166 mg/L
- 2018: 0.0155 mg/L
- 2019: 0.0110 mg/L
- 2020: 0.0084 mg/L
- 2021: 0.0069 mg/L
- 2022: 0.0069 mg/L (1 event only).

These numbers reflect a 63.5% reduction in average cobalt concentration from the start of background monitoring in 2016. These decreasing cobalt concentrations moderately correlate with a small scale upward trend in pH (6.6 to 6.8 SU) and DO (0.27 to 0.59 mg/L) over the same period. A decrease in average ORP is also noted during this time frame.

Downgradient compliance wells MR-AP-MW-2, MR-AP-MW-4, and MR-AP-MW-6 exhibiting cobalt SSLs have shown notable decreasing trends since 2017. The chief factors are variable, but generally are increasing pH, decreasing ORP, and decreasing conductivity.

An increasing trend is noted in well MR-AP-MW-13SR. However, based on the water levels it appears as if this well has been upgradient of the ash pond during the most recent sampling events.

### **Trends – Arsenic**

Arsenic SSLs are spatially limited at the site to the area of wells MR-AP-MW-3D to MR-AP-MW-5. Concentrations largely appear stable in these areas – with a small downward trend noted in MR-AP-MW-5.

Increasing concentrations in well MR-AP-MW-12 have also been observed starting in 2018. This increase is marked most strongly by increasing conductivity and to a much smaller degree, decreases in ORP and pH.

## 7.0 SUMMARY AND CONCLUSIONS

The first semi-annual assessment monitoring event of 2022 took place in March 2022. Statistical evaluations of the 2022 assessment monitoring data identified SSLs of Appendix IV constituents above the GWPS. To address previously identified SSLs, a Groundwater Remedy Selection Report was prepared and submitted to ADEM on November 31, 2021, and a Corrective Action Groundwater Monitoring Program plan on February 28, 2022. The Site entered into Corrective Action during the first semi-annual monitoring period of 2022. Focus at the Site now begins to shift towards further 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:

- Initiate Phase III of delineation and assessment activities which includes an assessment of geogenic sources, occurrences, and mechanisms for mobilization of COI.
- 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 (September 2022).
- Evaluation of recently collected MNA parameter data.
- Evaluation of molybdenum, south of the Ash Pond, in context of planned Remedial Action strategies and work flow.
- Conduct the second semi-annual assessment monitoring event in September-October 2022 and submit the semi-annual groundwater monitoring report summarizing the findings to ADEM by January 31, 2023.



## 8.0 REFERENCES

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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
<b>WELL NETWORK</b>											
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 Sandstone	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
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

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



**Table 1a. - Compliance Monitoring Well Network Details  
Plant 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
<b>WELL NETWORK</b>											
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 Fm - Gillespy to Pratt Transition	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
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

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



**Table 1a. - Compliance Monitoring Well Network Details  
Plant 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
<b>WELL NETWORK</b>											
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 WGS84 from NAD 27/83, State Plane, Alabama, feet.  
 (2) Vertical elevations are in feet relative to the North American Vertical Datum (NAVD)1988.  
 (3) Total well depth accounts for sump if data provided on well construction logs.



**Table 1b. - Delineation Well Network Details  
Plant 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
<b>WELL NETWORK</b>											
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 Fm - 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 WGS84 from NAD 27/83, State Plane, Alabama, feet.  
 (2) Vertical elevations are in feet relative to the North American Vertical Datum (NAVD)1988.  
 (3) Total well depth accounts for sump if data provided on well construction logs.



**Table 1b. - Delineation Well Network Details  
Plant 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
<b>WELL NETWORK</b>											
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 WGS84 from NAD 27/83, State Plane, Alabama, feet.

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

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





**Table 1c. - 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
<b>WELL NETWORK</b>											
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 WGS84 from NAD 27/83, State Plane, Alabama, feet.  
 (2) Vertical elevations are in feet relative to the North American Vertical Datum (NAVD)1988.  
 (3) Total well depth accounts for sump if data provided on well construction logs.



**Table 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
<b>WELL NETWORK</b>											
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 WGS84 from NAD 27/83, State Plane, Alabama, feet.  
 (2) Vertical elevations are in feet relative to the North American Vertical Datum (NAVD)1988.  
 (3) Total well depth accounts for sump if data provided on well construction logs.



## Table 2. Parameters And Reporting Limits

Plant Miller Ash Pond 03/08/2022 - 03/17/2022

Appendix III Parameters			
Parameters	Analytical Methods	Reporting Limits	Units of Measure
Boron	EPA 200.7	0.1015	mg/L
Calcium	EPA 200.7	0.406-40.6	mg/L
Chloride	SM4500Cl E	1-200	mg/L
Fluoride	SM4500F G 2017	0.125	mg/L
pH_Field	Field Sampling	NA	SU
Sulfate	SM4500SO4 E 2011	2-100	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	0.001015-0.000203	mg/L
Beryllium	EPA 200.8	0.001015	mg/L
Cadmium	EPA 200.8	0.000203	mg/L
Chromium	EPA 200.8	0.001015	mg/L
Cobalt	EPA 200.8	0.000203	mg/L
Lead	EPA 200.8	0.000203	mg/L
Lithium	EPA 200.7	0.02	mg/L
Mercury	EPA 245.1	0.0005	mg/L
Molybdenum	EPA 200.8	0.000203	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	0.817-1.40	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



**Table 3. Groundwater Elevations Summary**

**Plant Miller Ash Pond  
02/07/2022 - 03/07/2022**

<b>Well</b>	<b>Measure Date</b>	<b>TOCElevation (ft. NAVD)</b>	<b>Depth To Water (ft. BTOC)</b>	<b>Groundwater Elevation (ft. NAVD)</b>
GS-AP-MW-8	02/07/2022	434.61	43.14	391.47
MR-AP-MW-1	03/07/2022	473.68	193.48	280.20
MR-AP-MW-2	03/07/2022	482.33	202.20	280.13
MR-AP-MW-3S	03/07/2022	436.27	87.82	348.45
MR-AP-MW-4	03/07/2022	422.47	48.60	373.87
MR-AP-MW-5	03/07/2022	279.22	0	Artesian
MR-AP-MW-10	03/07/2022	541.74	142.41	399.33
MR-AP-MW-11	03/07/2022	594.02	229.81	364.21
MR-AP-MW-12	03/07/2022	504.53	98.09	406.44
MR-AP-MW-15	03/07/2022	413.65	14.30	399.35
MR-AP-MW-16	03/07/2022	418.55	31.19	387.36
MR-AP-MW-3D	03/07/2022	437.06	111.96	325.10
MR-AP-MW-6	03/07/2022	374.3	0	Artesian
MR-AP-PZ-5	03/07/2022	279.66	0	Artesian
GS-AP-MW-17V	02/07/2022	531.45	106.26	425.19
MR-AP-MW-17H	03/07/2022	276.32	20.90	255.42
MR-AP-MW-18H	03/07/2022	448.98	164.57	284.41
MR-AP-MW-19H	03/07/2022	384.23	221.20	163.03
MR-AP-MW-19HA	03/07/2022	399.93	118.87	281.06
MR-AP-MW-20H	03/07/2022	384.23	122.81	261.42
MR-AP-MW-20HS	03/07/2022	373.18	42.72	330.46
MR-AP-MW-21	03/07/2022	373.18	19.94	353.24
MR-AP-MW-23	03/07/2022	352.43	10.36	342.07
MR-AP-MW-28H	03/07/2022	488.34	82.89	405.45
MR-AP-MW-2V	03/07/2022	480.46	264.72	215.74
MR-AP-MW-30H	03/07/2022	586.17	237.80	348.37
MR-AP-MW-31H	03/07/2022	551.18	244.43	306.75
MR-AP-MW-3V	03/07/2022	438.04	157.04	281.00
MR-AP-MW-4V	03/07/2022	422.22	90.54	331.68
MR-AP-MW-6V	03/07/2022	375.95	115.48	260.47
MR-AP-MW-13DR	03/07/2022	457.54	77.42	380.12
MR-AP-MW-13SR	03/07/2022	457.34	27.96	429.38

Notes:

ft. = feet; ft. NAVD = elevation in feet, referenced to North American Vertical Datum (1988); TOC = top of casing; BTOC = below top of casing  
(1) Artesian = groundwater elevation above top of casing, therefore, cannot be measured



### Table 3. Groundwater Elevations Summary

Plant Miller Ash Pond  
02/07/2022 - 03/07/2022

MR-AP-MW-14R	03/07/2022	426.05	14.96	411.09
MR-AP-MW-22D	03/07/2022	364.49	28.51	335.98
MR-AP-MW-22I	03/07/2022	364.27	28.11	336.16
MR-AP-MW-22S	03/07/2022	364.64	14.37	350.27
MR-AP-MW-23A	03/07/2022	352.64	10.52	342.12
MR-AP-MW-27HR	03/07/2022	476.42	99.03	377.39
MR-AP-MW-32H	03/07/2022	322.22	61.04	261.18
MR-AP-MW-33H	03/07/2022	321.53	17.51	304.02
MR-AP-MW-34H	03/07/2022	431.45	151.19	280.26
MR-AP-MW-35H	03/07/2022	305.12	9.17	295.95
MR-AP-MW-36HR	03/07/2022	540.5	198.51	341.99
MR-AP-MW-37H	03/07/2022	440.12	125.28	314.84
MR-AP-MW-7DR	03/07/2022	335.44	76.40	259.04
MR-AP-MW-7SR	03/07/2022	335.65	8.59	327.06
MR-AP-MW-9DR	03/07/2022	466.12	70.94	395.18
MR-AP-MW-9SR	03/07/2022	465.6	68.19	397.41

Notes:

ft. = feet; ft. NAVD = elevation in feet, referenced to North American Vertical Datum (1988); TOC = top of casing; BTOC = below top of casing  
(1) Artesian = groundwater elevation above top of casing, therefore, cannot be measured



**Table 4a. Relative Percent Difference (RPD) Calculations**

Plant Miller Ash Pond  
03/09/2022 - 05/19/2022

<b>MR-AP-MW-10</b>				
<b>Sample Date = 5/19/2022</b>				
<b>Analyte</b>	<b>Units</b>	<b>Original Result</b>	<b>Duplicate Result</b>	<b>RPD (%)</b>
Boron	mg/L	6.17	6.12	0.81%
Calcium	mg/L	143	145	1.39%
Chloride	mg/L	8.19	8.04	1.85%
Fluoride	mg/L	1.27	1.24	2.39%
Sulfate	mg/L	1390	1460	4.91%
Arsenic	mg/L	0.0428	0.0425	0.70%
Barium	mg/L	0.0185	0.0191	3.19%
Cobalt	mg/L	0.00141	0.00143	1.41%
Lithium	mg/L	0.24	0.235	2.11%
Molybdenum	mg/L	0.675	0.687	1.76%
<b>MR-AP-MW-22S</b>				
<b>Sample Date = 3/16/2022</b>				
<b>Analyte</b>	<b>Units</b>	<b>Original Result</b>	<b>Duplicate Result</b>	<b>RPD (%)</b>
Calcium	mg/L	97.5	98.4	0.92%
Chloride	mg/L	127	140	9.74%
Fluoride	mg/L	0.145	0.151	4.05%
Sulfate	mg/L	174	170	2.33%
Arsenic	mg/L	0.00037	0.00033	12.68%
Barium	mg/L	0.053	0.053	0.00%
Lithium	mg/L	0.0626	0.0631	0.80%
Molybdenum	mg/L	0.00032	0.00031	5.71%
<b>MR-AP-MW-4V</b>				
<b>Sample Date = 3/15/2022</b>				
<b>Analyte</b>	<b>Units</b>	<b>Original Result</b>	<b>Duplicate Result</b>	<b>RPD (%)</b>
Boron	mg/L	0.642	0.645	0.47%
Calcium	mg/L	226	219	3.15%
Chloride	mg/L	23.7	23.7	0.00%
Fluoride	mg/L	0.244	0.255	4.41%
Sulfate	mg/L	702	715	1.84%
Arsenic	mg/L	0.00165	0.00136	19.27%
Barium	mg/L	0.0183	0.0179	2.21%
Cobalt	mg/L	0.013	0.0132	1.53%
Lithium	mg/L	0.12	0.118	1.68%
Molybdenum	mg/L	0.00749	0.00752	0.40%



**Table 4a. Relative Percent Difference (RPD) Calculations**

Plant Miller Ash Pond  
03/09/2022 - 05/19/2022

<b>MR-AP-MW-5</b>				
<b>Sample Date = 3/14/2022</b>				
<b>Analyte</b>	<b>Units</b>	<b>Original Result</b>	<b>Duplicate Result</b>	<b>RPD (%)</b>
Boron	mg/L	0.864	0.867	0.35%
Calcium	mg/L	228	250	9.21%
Chloride	mg/L	26.1	26.5	1.52%
Fluoride	mg/L	0.405	0.37	9.03%
Sulfate	mg/L	810	792	2.25%
Arsenic	mg/L	0.00987	0.00988	0.10%
Barium	mg/L	0.0162	0.0162	0.00%
Lithium	mg/L	0.189	0.184	2.68%
Molybdenum	mg/L	0.0753	0.0762	1.19%
<b>MR-AP-MW-15</b>				
<b>Sample Date = 3/9/2022</b>				
<b>Analyte</b>	<b>Units</b>	<b>Original Result</b>	<b>Duplicate Result</b>	<b>RPD (%)</b>
Boron	mg/L	0.445	0.447	0.45%
Calcium	mg/L	39.1	39.5	1.02%
Chloride	mg/L	17.6	17.6	0.00%
Sulfate	mg/L	123	120	2.47%
Arsenic	mg/L	0.00042	0.00047	11.66%
Barium	mg/L	0.0275	0.026	5.61%
Cobalt	mg/L	0.00065	0.00068	4.35%
<b>MR-AP-MW-20HS</b>				
<b>Sample Date = 3/9/2022</b>				
<b>Analyte</b>	<b>Units</b>	<b>Original Result</b>	<b>Duplicate Result</b>	<b>RPD (%)</b>
Boron	mg/L	0.491	0.499	1.62%
Calcium	mg/L	115	114	0.87%
Chloride	mg/L	33.8	32.6	3.61%
Sulfate	mg/L	398	402	1.00%
Arsenic	mg/L	0.0003	0.00021	34.62%
Barium	mg/L	0.0263	0.0265	0.76%
Cobalt	mg/L	0.00083	0.00081	2.93%
Lithium	mg/L	0.0594	0.0589	0.85%
Molybdenum	mg/L	0.00037	0.00043	14.50%

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 Miller Ash Pond  
03/08/2022 - 03/17/2022

Parameters Detected Above MDL					
Sample Date	QC Location	Parameter	Blank Concentration	Units	MDL
03/17/2022	EB-1	Chromium	0.00024 J	mg/L	0.0002
03/16/2022	FB-5	Chromium	0.00027 J	mg/L	0.0002
03/16/2022	FB-4	Chromium	0.00026 J	mg/L	0.0002
03/09/2022	FB-3	Chromium	0.00022 J	mg/L	0.0002
03/08/2022	FB-1	Chromium	0.00023 J	mg/L	0.0002
03/17/2022	EB-1	Molybdenum	0.00019 J	mg/L	0.0001

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
Fluoride	mg/L	0.436	4
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
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
Combined Radium 226 + 228	pCi/L	7.07	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  
05/11/2022 - 05/19/2022

Field Parameters								
Hydraulic Location	Well	Sample Date	Conductivity uS/cm	DO mg/L	ORP mv	pH_Field SU	Field Temperature C	Turbidity NTU
Downgradient	MR-AP-MW-10	05/19/2022	2604.34	0.46	-37.97	6.99	17.91	2.5
Downgradient	MR-AP-MW-12	05/19/2022	3182.33	0.53	-6.83	6.42	22.14	1.65

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

## Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary  
Plant Miller Ash Pond  
05/11/2022 - 05/19/2022

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-10	05/19/2022	6.17	143	8.19	1.27	6.99	1390
Downgradient	MR-AP-MW-12	05/19/2022	6.39	94.2	7.92	1.23	6.42	1510

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

## Table 6. First Semi-Annual Monitoring Event

### Analytical Results Summary Plant Miller Ash Pond 05/11/2022 - 05/19/2022

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	05/11/2022	--	--	--	--	--	--	--	--
Downgradient	MR-AP-MW-10	05/19/2022	<0.000508	0.0428	0.0185	<0.000406	<6.8e-005	<0.000203	0.00141	1.27
Downgradient	MR-AP-MW-12	05/19/2022	0.000656 J	0.00814	0.0162	<0.000406	9.14e-005 J	0.000772 J	0.00114	1.23

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

## Table 6. First Semi-Annual Monitoring Event

**Analytical Results Summary  
Plant Miller Ash Pond  
05/11/2022 - 05/19/2022**

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	05/11/2022	--	--	--	--	--	--	0.553 U
Downgradient	MR-AP-MW-10	05/19/2022	<6.8e-005	0.24	<0.0003	0.675	<0.000508	<6.8e-005	--
Downgradient	MR-AP-MW-12	05/19/2022	<6.8e-005	0.127	<0.0003	1.06	<0.000508	<6.8e-005	--

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

## Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary  
Plant Miller Ash Pond  
05/11/2022 - 05/19/2022

General Chemistry and MNA Parameters						
Hydraulic Location	Well	Sample Date	Chloride mg/L	Sulfate mg/L	Calcium mg/L	Sulfide mg/L
Downgradient	MR-AP-MW-10	05/19/2022	8.19	1390	143	0
Downgradient	MR-AP-MW-12	05/19/2022	7.92	1510	94.2	0

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

**Table 7. Description of Geochemical Facies**

**Piper Diagram Interpretation(s)**

<b>Geochemical Facies</b>	<b>Piper Diagram Quadrant</b>	<b>Processes or Sources</b>	<b>Comment</b>
<b>Calcium Chloride</b>	Top	Geogenic Accumulation of Salts from the Weathering of Mine Spoils -or- CCR Pore-Waters	Sulfate and chloride salts of calcium, magnesium, and sodium derived from weathering/leaching of mine spoils
<b>Sodium Chloride</b>	Right	<u>Ancient or Older Water</u> Rock Dissolution, Mine Spoil Weathering and Salt Accumulation, Silicate Weathering, and Reverse Ion Exchange	Lengthy dissolution and interaction with rock; brackish to brine waters; or chemical weathering/leaching of mine spoils
<b>Sodium Bicarbonate</b>	Bottom	<u>Intermediate Water</u> Dissolution-Precipitation Reactions w/ Silicate Minerals -or- Dissolution of Calcite Minerals by Carbonic Acid followed by Cation Exchange w/ Sodium	Medium-to-Deeper groundwater interacting with silicate minerals (clays, mudstones, shales) and or carbonates
<b>Magnesium Bicarbonate</b>	Left	<u>Younger, Recharging</u> Water Recharging through Sandstone or Carbonates	Typically signature of younger groundwater interacting with organic materials and calcite
<b>Mixed Types</b>	Upper, Lower Middle	Mixing of Water Types along Groundwater Flow Paths	Lacks dominate cation/anion - typically result of mixing facies along flow path



**Table 8. Geochemical Facies in Site Groundwater**

Piper Diagram Interpretation(s) - Fall 2021/Spring 2022

Geochemical Facies	Monitoring Wells	Processes or Sources	Comment
<b>Calcium Chloride</b>	MW-2, MW-3D, MW-4, MW-5, MW-6, MW-7DR, MW-9SR, MW-9DR, MW-11, MW-15, MW-16, MW-4V, MW-20HS, MW-20H, MW-30H, MW-33H, MW-35H	Geogenic Accumulation of Salts from the Weathering of Mine Spoils -or- CCR Pore-Waters	Wells MW-7DR, MW-9SR, MW-9DR, MW-11, MW-20H, MW-20HS, MW-30H, MW-31H, and MW-33H proximal to historic strip mine/spoil area. MW-2 near Mary Lee mine; screened in Mary Lee coal. MW-7DR, MW-16, MW-30H plot on boundary with mixed water type.
<b>Sodium Chloride</b>	MW-1, MW-3S, MW-12, MW-13SR, MW-18H, MW-34H, MW-36HR, MW-22S, MW-22D, MW-22I, MW-23, MW-23A	<u>Ancient or Older Water</u> Rock Dissolution, Mine Spoil Weathering and Salt Accumulation, Silicate Weathering, and Reverse Ion Exchange	MW-12, MW-13SR, MW-36HR installed in or adjacent to strip mine/spoils. MW-1, MW-18H, MW-34H are deep wells installed in the Mary Lee coal. MW-22 and MW-23 wells located adjacent to historic mining and may also be located along fault zone.
<b>Sodium Bicarbonate</b>	PZ-5, MW-19HA	<u>Intermediate Water</u> Dissolution-Precipitation Reactions w/ Silicate Minerals -or- Dissolution of Calcite Minerals by Carbonic Acid followed by Cation Exchange w/ Sodium	Mary Lee coal wells (deeper) with longer residence time and rock/mineral interactions.
<b>Magnesium Bicarbonate</b>	MW-13DR, MW-14R, MW-27HR, MW-32H, MW-21, MW-37H	<u>Younger, Recharging</u> Water Recharging through Sandstone or Carbonates	Shallow wells and or less residence time/mineral interactions
<b>Mixed Type 1: Calcium-Chloride to Calcium-Bicarbonate</b>	MW-6V, MW-7SR, MW-15, MW-28H, MW-31H, MW-35H	Mixing of Water Types along Groundwater Flow Paths	Mixing of recharging groundwater with weathered mine spoils or CCR. MW-7SR, MW-28H, MW-31H proximal to historic strip mines/spoils. MW-35H close to older Mary Lee strip mines.
<b>Mixed Type 2: Calcium-Chloride to Sodium-Chloride</b>	MW-10	Mixing of Water Types along Groundwater Flow Paths	Mixing of weathered mine spoils or CCR with Pottsville Formation.
<b>Mixed Type 3: Calcium-Bicarbonate to Sodium-Bicarbonate</b>	MW-17H	Mixing of Water Types along Groundwater Flow Paths	Mixing of shallow and deeper waters - dissolution, precipitation, and cation exchange processes.





## Table 9. Tritium Thresholds for Estimating Age of Groundwater

Tritium Precipitation in Region Decayed to Tritium Sample Date

Tritium Range	Estimated Dates of GW Recharge	Comment
<0.3 TU	Pre-1953	Era prior to nuclear testing
0.3 to 1.75 TU	1953 to 1957	Limited nuclear testing
6 to 42 TU	1959 to 1968	Peak of nuclear testing era
3 to 5 TU	1970 to 1973 -OR- 2009 to Present	Decline of nuclear testing -OR- Reduced nuclear testing; nuclear generation
2 to 3 TU	1972 to 1978 -OR- 1980 to 2008	Decline of nuclear testing -OR- Reduced nuclear testing; nuclear generation



### Table 10. Tritium Age Estimation Results and Interpretation

Tritium Precipitation in Region Decayed to Tritium Sample Date

Tritium Range	Estimated Dates of GW Recharge	Wells By Category	Comment
<0.3 TU	Pre-1953	None	
0.3 to 1.75 TU	1953 to 1957	MW-1, MW-11	
6 to 42 TU	1959 to 1968	None	
3 to 5 TU	1970 to 1973 -OR- 2009 to Present	MW-2, MW-3S, MW-3D, MW-4, MW-5, MW-7S, MW-8S, MW-8D, MW-9S, MW-9D, MW-14, MW-15, MW-16	MW-2 likely in grouping of 1970 to 1973 due to well depth. Remaining likely in 2009 to Present category.
2 to 3 TU	1972 to 1978 -OR- 1980 to 2008	PZ-5, MW-6, MW-7D, MW-9D, MW-10, MW-13S, MW-13D	PZ-5 likely in grouping of 1970 to 1973 due to well depth. Remaining likely in 1980 to 2009 category.



**Table 11. Isotopic Boron Results and Interpretation**

Well	Average Boron Concentration (mg/L)	Boron Isotopic Fractionation $\delta(11)B$ ‰	Sources/Reference Ranges: <-5 ‰, Appalachian Coal ~(-)2 ‰, Marine Shale <0 ‰, CCR Leachate Signature 0 to 8 ‰, Lithologic to Meteoric >8 ‰, Meteoric	Coal Seams Screened
MR-AP-MW-1	0.0715	-3.1	Screened Mary Lee Coal; Overlying Shale	Mary Lee Coal Seam
MR-AP-MW-10	3.5124	6.6	Meteoritic	American Coal Seam
MR-AP-MW-11	0.0553	BDL	--	American Coal Seam
MR-AP-MW-12	4.4794	4.2	Meteoritic; Lithologic	American Coal Seam
MR-AP-MW-13DR	0.0447	8.3	Meteoritic	
MR-AP-MW-13SR	0.0458	4.7	Lithologic Source; Meteoric	
MR-AP-MW-14R	0.0873	10.9	Meteoritic	
MR-AP-MW-15	0.3051	10.4	Meteoritic	
MR-AP-MW-16	2.6106	-3.2	CCR Leachate	
MR-AP-MW-17H	0.0859	6.3	Meteoritic; Lithologic	
MR-AP-MW-18H	0.2427	5.1	Meteoritic; Lithologic	
MR-AP-MW-19HA	0.1627	17.4	Meteoritic	Mary Lee Coal Seam
MR-AP-MW-2	0.1603	11.5	Meteoritic	Mary Lee Coal Seam
MR-AP-MW-20H	0.7348	11.3	Meteoritic	
MR-AP-MW-20HS	0.6030	5.3	Lithologic; Meteoric	
MR-AP-MW-27HR	0.1010	BDL	--	Curry Coal or Equivalent
MR-AP-MW-28H	0.3070	-0.6	CCR Leachate or Shale Weathering	American Coal Seam
MR-AP-MW-30H	0.0594	-4.5	Coal or CCR	American Coal Seam; Un-named minor coal seam
MR-AP-MW-31H	0.0324	4.4	Lithologic; Meteoric	Curry Coal or Equivalent
MR-AP-MW-32H	0.1007	BDL	--	
MR-AP-MW-33H	0.7043	10.2	Meteoritic	
MR-AP-MW-34H	0.1575	1.5	Lithologic	Mary Lee Coal Seam
MR-AP-MW-35H	0.1007	BDL	--	
MR-AP-MW-36HR	0.1112	10.5	Meteoritic	
MR-AP-MW-37H	0.0854	BDL	--	Curry Coal or Equivalent
MR-AP-MW-3D	0.4949	-0.7	CCR Leachate	(2) Thin, un-named coal seams; Mudstone/Shale
MR-AP-MW-3S	0.2064	13.3	Meteoritic	
MR-AP-MW-4	0.4920	-0.9	CCR Leachate	Thin, un-named coal seam; Mudstone/Shale
MR-AP-MW-4V	0.4145	-3.8	CCR Leachate	(2) Thin, un-named coal seams; Mudstone/Shale
MR-AP-MW-5	0.8784	4.4	Lithologic; Meteoric	
MR-AP-MW-6	0.8716	0.3	Lithologic; CCR Leachate	
MR-AP-MW-6V	0.5140	14.7	Meteoritic	
MR-AP-MW-7DR	0.7570	1.9	Lithologic	Curry Coal or Equivalent
MR-AP-MW-7SR	0.7180	7.3	Meteoritic; Lithologic	Gillespy Coal or Equivalent
MR-AP-MW-9DR	0.1010	BDL	--	American Coal Seam
MR-AP-MW-9SR	0.1307	1.6	Lithologic; CCR Leachate	Pratt Coal Seam
MR-AP-PZ-5	0.3964	12.3	Meteoritic	Mary Lee Coal Seam

**Note:**

1. BDL indicates "Below Detection Limit".
2. Accuracy +/- 1.5 per mille for isotopic boron analyses.
3. Wells screened across coals and shales may exhibit negative values.



**Table 12. Reference Values for Boron-to-Lithium Ratios**

<b>Boron - Lithium Ratio Statistics (mg/L)</b>					
<b>Source</b>	<b>Minimum</b>	<b>Quartile 1</b>	<b>Geometric Mean</b>	<b>Quartile 3</b>	<b>Maximum</b>
Ash Pore-water	0.99	2.73	7.51	10.13	136.05
Background/Natural	0.26	0.42	0.67	1.12	2.91
<b>Deduced Reference Values (mg/L)</b>					
<b>Source</b>	<b>B-Li Ratio</b>				
Ash Pore-water	<i>Greater than 3</i>				
Inconclusive	<i>Between 1 and 3</i>				
Background/Natural	<i>Less than 1.00</i>				

0.1566	0.2906	-3.1	Lithologic Source, Mary Lee Coal
0.1835	12.1777	6.6	Inconclusive
0.2227	0.1580	BDL	Lithologic Source
0.1932	14.7494	4.2	Inconclusive
0.0412	1.2761	Abandoned	Inconclusive
0.0352	0.8078	8.3	Lithologic Source
0.0824	0.7419	Abandoned	Lithologic Source
0.0323	0.9011	4.7	Lithologic Source
0.0224	3.7988	Abandoned	Inconclusive



**Table 13. Boron-to-Lithium Ratios and Isotopic Boron Results**

Well	Average Boron Concentration (mg/L)	Average Lithium Concentration (mg/L)	Boron to Lithium Ratio (Molar)	Boron Isotopic Fractionation $\delta(11)B$ ‰	Potential Sources from Combined Analyses
MR-AP-MW-1	0.0715	0.1566	0.2906	-3.1	Mary Lee Coal; Overlying Shale
MR-AP-MW-10	3.5124	0.1835	12.1777	6.6	Inconclusive
MR-AP-MW-11	0.0553	0.2227	0.1580	BDL	Lithologic
MR-AP-MW-12	4.4794	0.1932	14.7494	4.2	Inconclusive
MR-AP-MW-17H	0.0859	0.0804	0.6798	6.3	Lithologic
MR-AP-MW-18H	0.2427	0.1646	0.9379	5.1	Lithologic
MR-AP-MW-19HA	0.1627	0.1657	0.6246	17.4	Lithologic
MR-AP-MW-2	0.1603	0.2359	0.4321	11.5	Lithologic
MR-AP-MW-20H	0.7348	0.2618	1.7852	11.3	Lithologic
MR-AP-MW-20HS	0.6030	0.0877	4.3729	5.3	Inconclusive
MR-AP-MW-27HR	0.1010	0.0436	1.4724	BDL	Lithologic
MR-AP-MW-28H	0.3070	0.0589	3.3170	-0.6	CCR Leachate
MR-AP-MW-30H	0.0594	0.0947	0.3995	-4.5	American Coal Seam
MR-AP-MW-31H	0.0324	0.1423	0.1447	4.4	Lithologic
MR-AP-MW-33H	0.7043	0.1570	2.8534	10.2	Lithologic
MR-AP-MW-34H	0.1575	0.1815	0.5520	1.5	Mary Lee Coal Seam; Overlying Shale
MR-AP-MW-35H	0.1007	0.0302	2.1239	BDL	Lithologic
MR-AP-MW-36HR	0.1112	0.2350	0.3010	10.5	Lithologic
MR-AP-MW-37H	0.0854	0.0655	0.8291	BDL	Lithologic
MR-AP-MW-3D	0.4949	0.1235	2.5487	-0.7	CCR Leachate
MR-AP-MW-3S	0.2064	0.2288	0.5736	13.3	Lithologic
MR-AP-MW-4	0.4920	0.0935	3.3462	-0.9	CCR Leachate
MR-AP-MW-4V	0.4145	0.0530	4.9702	-3.8	CCR Leachate
MR-AP-MW-5	0.8784	0.2398	2.3299	4.4	Lithologic
MR-AP-MW-6	0.8716	0.0842	6.5865	0.3	CCR Leachate
MR-AP-MW-6V	0.5140	0.1137	2.8749	14.7	Lithologic
MR-AP-MW-7DR	0.7570	0.1267	3.8016	1.9	Inconclusive
MR-AP-MW-7SR	0.7180	0.1530	2.9852	7.3	Lithologic
MR-AP-MW-9DR	0.1010	0.0820	0.7835	BDL	Lithologic
MR-AP-MW-9SR	0.1307	0.0442	1.8791	1.6	Lithologic
MR-AP-PZ-5	0.3964	0.1680	1.5010	12.3	Lithologic

**Note:**

1. BDL indicates "Below Detection Limit".
2. Blue shading = boron-to-lithium ratio similar to background.
3. Green shading = ratio overlaps between pore-water and background.
4. Only wells with SSLs or GWPS exceedances presented.



**Table 14. Agglomerative Clustering Results**

Sampling Location	Dendogram Clustering Branch	Dendogram Clusters	Potential Source from Boron-Lithium Analyses
MR-AP-MW-24 (Source)	Branch 1	Cluster A	CCR Pore-water (Bottom Ash)
MR-AP-MW-25 (Source)	Branch 2	Cluster D	CCR Pore-water (More Fly Ash)
MR-AP-MW-26 (Source)	Branch 2	Cluster D	CCR Pore-water (More Fly Ash)
GAP-B-66 (Source)	Branch 2	Cluster D	CCR Pore-water
GAP-B-1 (Source)	Branch 2	Cluster D	CCR Pore-water
GAP-B-2 (Source)	Branch 2	Cluster D	CCR Pore-water
MR-AP-MW-1	Branch 2	Cluster E	Lithologic Source, Mary Lee Coal
MR-AP-MW-10	Branch 1	Cluster B	Inconclusive
MR-AP-MW-11	Branch 1	Cluster B	Lithologic Source
MR-AP-MW-12	Branch 1	Cluster B	Inconclusive
MR-AP-MW-17H	Branch 2	Cluster E	Lithologic Source
MR-AP-MW-18H	Branch 2	Cluster E	Lithologic Source
MR-AP-MW-19HA	Branch 2	Cluster E	Lithologic Source
MR-AP-MW-2	Branch 1	Cluster B	Lithologic Source
MR-AP-MW-20H	Branch 2	Cluster E	Lithologic Source
MR-AP-MW-20HS	Branch 2	Cluster E	Lithologic Source
MR-AP-MW-27HR	Branch 2	Cluster C	Inconclusive
MR-AP-MW-28H	Branch 2	Cluster C	Inconclusive
MR-AP-MW-30H	Branch 1	Cluster B	Inconclusive
MR-AP-MW-31H	Branch 2	Cluster C	Lithologic Source
MR-AP-MW-33H	Branch 2	Cluster C	Lithologic Source
MR-AP-MW-34H	Branch 2	Cluster E	Lithologic Source
MR-AP-MW-35H	Branch 2	Cluster C	Inconclusive
MR-AP-MW-36HR	Branch 2	Cluster E	Lithologic Source
MR-AP-MW-37H	Branch 2	Cluster C	Lithologic Source
MR-AP-MW-3D	Branch 1	Cluster B	CCR Leachate
MR-AP-MW-3S	Branch 2	Cluster E	Lithologic Source
MR-AP-MW-4	Branch 1	Cluster B	CCR Leachate
MR-AP-MW-4V	Branch 1	Cluster B	CCR Leachate
MR-AP-MW-5	Branch 2	Cluster E	Lithologic Source
MR-AP-MW-6	Branch 1	Cluster B	CCR Leachate
MR-AP-MW-6V	Branch 2	Cluster E	Lithologic Source
MR-AP-MW-7DR	Branch 2	Cluster C	Inconclusive
MR-AP-MW-7SR	Branch 2	Cluster C	Lithologic Source
MR-AP-MW-9DR	Branch 2	Cluster C	Lithologic Source
MR-AP-MW-9SR	Branch 2	Cluster C	Inconclusive



Table 15. Summary of Technical Data Evaluation and Recommendations

Sampling Location	Dendrogram Clustering Branch	Dendrogram Clusters	Boron to Lithium Ratio (Molar)	$\delta(11)B$ ‰	Groundwater Elevation Response	Geochemical Facies	Potential Source from Boron-Lithium Analyses	All Data Interpreted Source	Recommendation	Flow System Notes
<i>Reference Criteria</i>	<u>Branch 1, Clusters A to B; Branch 2, Cluster D are CCR signature</u>		>1 - Natural 1 to 3 - Uncertain <3 - Likely CCR	<u>Negative ratio = Coal CCR Shale</u>	Decline = significant response to pond lowering	<u>Calcium Chloride = CCR or Mine Spoil</u>	Evaluated Using Isotopic Boron and Boron- to-Lithium Ratios Only	Evaluated Against All Criteria	--	--
MR-AP-MW-1	Branch 2	Cluster E	0.2906	-3.1		Sodium Chloride	Lithologic Source, Mary Lee Coal	Lithologic Source, Mary Lee Coal (5 of 5 factors)		
MR-AP-MW-10	Branch 1	Cluster B	12.1777	6.6	Decline	Mixed Type 3: Calcium-Sodium Bicarbonate	Inconclusive	3 of 5 factors suggest CCR		
MR-AP-MW-11	Branch 1	Cluster B	0.1580	BDL		Calcium Chloride	Lithologic Source	Lithologic Source (3 of 5 factors)	ASD evaluation of lithium occurrence in clays/silicates/oxides + mobilization mechanisms	<u>Pratt Coal Strata Target</u> Pratt Coal Seam American Coal Seam Dominant Mudstones
MR-AP-MW-12	Branch 1	Cluster B	14.7494	4.2	Decline	Sodium Chloride	Inconclusive	3 of 5 factors suggest CCR	ASD evaluation of lithium occurrence in clays/silicates/oxides + mobilization mechanisms	<u>Pratt Coal Strata Target</u> Pratt Coal Seam American Coal Seam Dominant Mudstones
MR-AP-MW-17H	Branch 2	Cluster E	0.6798	6.3		Type 3 Mixed: Calcium-Sodium Bicarbonate	Lithologic Source	Lithologic Source (5 of 5 factors)		
MR-AP-MW-18H	Branch 2	Cluster E	0.9379	5.1		Sodium Chloride	Lithologic Source	Lithologic Source (5 of 5 factors)		
MR-AP-MW-19HA	Branch 2	Cluster E	0.6246	17.4		Sodium Bicarbonate	Lithologic Source	Lithologic Source (5 of 5 factors)		
MR-AP-MW-2	Branch 1	Cluster B	0.4321	11.5		Calcium Chloride	Lithologic Source	Lithologic Source (3 of 5 factors)	ASD evaluation of lithium occurrence in clays/silicates/oxides + mobilization mechanisms	<u>Mary Lee Coal Strata Target</u> Mary Lee Coal Seam Overlying Shale
MR-AP-MW-20H	Branch 2	Cluster E	1.7852	11.3		Calcium Chloride	Lithologic Source	Lithologic Source (3 of 5 factors)		
MR-AP-MW-20HS	Branch 2	Cluster E	4.3729	5.3	Decline, lacks historical data	Calcium Chloride	Lithologic Source	Inconclusive 2 of 5 factors suggest natural 3 of 5 factors ambiguous	ASD evaluation of lithium occurrence in clays/silicates/oxides + mobilization mechanisms	<u>Gillespie Coal Strata Target</u> Minor coal beds Mudstone/Shale
MR-AP-MW-27HR	Branch 2	Cluster C	1.4724	BDL		Calcium-Magnesium Bicarbonate	Inconclusive	4 factors suggest natural source; 1 neutral		
MR-AP-MW-28H	Branch 2	Cluster C	3.3170	-0.6		Mixed Type 1: Calcium Chloride-Bicarbonate	Inconclusive	Inconclusive	ASD evaluation of lithium occurrence in clays/silicates/oxides + mobilization mechanisms	<u>Pratt Coal Strata Target</u> Pratt Coal Seam American Coal Seam Dominant Mudstones
MR-AP-MW-30H	Branch 1	Cluster B	0.3995	-4.5	Decline	Calcium Chloride	Inconclusive	3 of 5 factors suggest CCR		





Table 15. Summary of Technical Data Evaluation and Recommendations

Sampling Location	Dendrogram Clustering Branch	Dendrogram Clusters	Boron to Lithium Ratio (Molar)	$\delta(11)B$ ‰	Groundwater Elevation Response	Geochemical Facies	Potential Source from Boron-Lithium Analyses	All Data Interpreted Source	Recommendation	Flow System Notes
<i>Reference Criteria</i>	Branch 1, Clusters A to B; Branch 2, Cluster D are CCR signature		>1 - Natural 1 to 3 - Uncertain <3 - Likely CCR	Negative ratio = Coal CCR Shale	Decline = significant response to pond lowering	Calcium Chloride = CCR or Mine Spoil	Evaluated Using Isotopic Boron and Boron- to- Lithium Ratios Only	Evaluated Against All Criteria	--	--
MR-AP-MW-31H	Branch 2	Cluster C	0.1447	4.4	Decline	Type 1 Mixed: Calcium Chloride-Bicarbonate	Lithologic Source	Lithologic Source (3 of 5 factors)		
MR-AP-MW-33H	Branch 2	Cluster C	2.8534	10.2	Decline, lacks historical data	Calcium Chloride	Lithologic Source	Calcium Chloride		
MR-AP-MW-34H	Branch 2	Cluster E	0.5520	1.5		Sodium Chloride	Lithologic Source	Lithologic Source (5 of 5 factors)		
MR-AP-MW-36HR	Branch 2	Cluster E	0.3010	10.5		Sodium Chloride	Lithologic Source	Lithologic Source (5 of 5 factors)		
MR-AP-MW-37H	Branch 2	Cluster C	0.8291	BDL	Decline	Calcium-Magnesium Bicarbonate	Lithologic Source	Lithologic Source (5 of 5 factors)		
MR-AP-MW-3D	Branch 1	Cluster B	2.5487	-0.7		Calcium Chloride	CCR Leachate	Likely CCR but 2 factors support and 3 are ambiguous	ASD evaluation of lithium occurrence in clays/silicates/oxides + mobilization mechanisms	<u>Gilbespy Coal Strata Target</u> Minor coal beds Mudstone/Shale Fracture Mineralization
MR-AP-MW-3S	Branch 2	Cluster E	0.5736	13.3	Increase	Sodium Chloride	Lithologic Source	Lithologic Source (5 of 5 factors)		
MR-AP-MW-4	Branch 1	Cluster B	3.3462	-0.9	Decline	Calcium Chloride	CCR Leachate	3 of 5 factors suggest CCR		
MR-AP-MW-4V	Branch 1	Cluster B	4.9702	-3.8	Decline	Calcium Chloride	CCR Leachate	5 of 5 factors suggest CCR		
MR-AP-MW-5	Branch 2	Cluster E	2.3299	4.4		Calcium Chloride	Lithologic Source	Lithologic Source (3 of 5 factors)	ASD evaluation of lithium occurrence in clays/silicates/oxides + mobilization mechanisms	<u>Gilbespy Coal Strata Target</u> Minor coal beds Mudstone/Shale Fracture Mineralization
MR-AP-MW-6	Branch 1	Cluster B	6.5865	0.3		Calcium Chloride	CCR Leachate	Likely CCR but 2 factors support and 3 are ambiguous		
MR-AP-MW-6V	Branch 2	Cluster E	2.8749	14.7	Increase	Type 1 Mixed: Calcium Chloride-Bicarbonate	Lithologic Source	Lithologic Source (4 of 5 factors)		
MR-AP-MW-7DR	Branch 2	Cluster C	3.8016	1.9	Increase	Calcium Chloride	Inconclusive	Lithologic Source 3 of 5 factors suggest natural source	ASD evaluation of lithium occurrence in clays/silicates/oxides + mobilization mechanisms	<u>Gilbespy Coal Strata Target</u> Minor coal beds Mudstone/Shale Fracture Mineralization



Table 15. Summary of Technical Data Evaluation and Recommendations

Sampling Location	Dendrogram Clustering Branch	Dendrogram Clusters	Boron to Lithium Ratio (Molar)	$\delta(11)B$ ‰	Groundwater Elevation Response	Geochemical Facies	Potential Source from Boron-Lithium Analyses	All Data Interpreted Source	Recommendation	Flow System Notes
<i>Reference Criteria</i>	<u>Branch 1, Clusters A to B; Branch 2, Cluster D are CCR signature</u>		>1 - Natural 1 to 3 - Uncertain <3 - <u>Likely CCR</u>	<u>Negative ratio</u> = Coal CCR Shale	Decline = significant response to pond lowering	<u>Calcium Chloride</u> = CCR or Mine Spoil	Evaluated Using Isotopic Boron and Boron-to-Lithium Ratios Only	Evaluated Against All Criteria	--	--
MR-AP-MW-7SR	Branch 2	Cluster C	2.9852	7.3		Type 1 Mixed: Calcium Chloride-Bicarbonate	Lithologic Source	Lithologic Source 3 of 5 factors suggest natural source		
MR-AP-MW-9DR	Branch 2	Cluster C	0.7835	BDL		Calcium Chloride	Lithologic Source	Lithologic Source 3 of 5 factors suggest natural source		
MR-AP-MW-9SR	Branch 2	Cluster C	1.8791	1.6		Calcium Chloride	Inconclusive	Lithologic Source 3 of 5 factors suggest natural source	ASD evaluation of lithium occurrence in clays/silicates/oxides + mobilization mechanisms	<u>Pratt Coal Strata</u> - <u>Target</u> Pratt Coal Seam - American Coal Seam - Dominant Mudstones
MR-AP-PZ-5	Branch 2	Cluster E	1.5010	12.3		Sodium Bicarbonate	Lithologic Source	Lithologic Source (3 of 5 factors)		



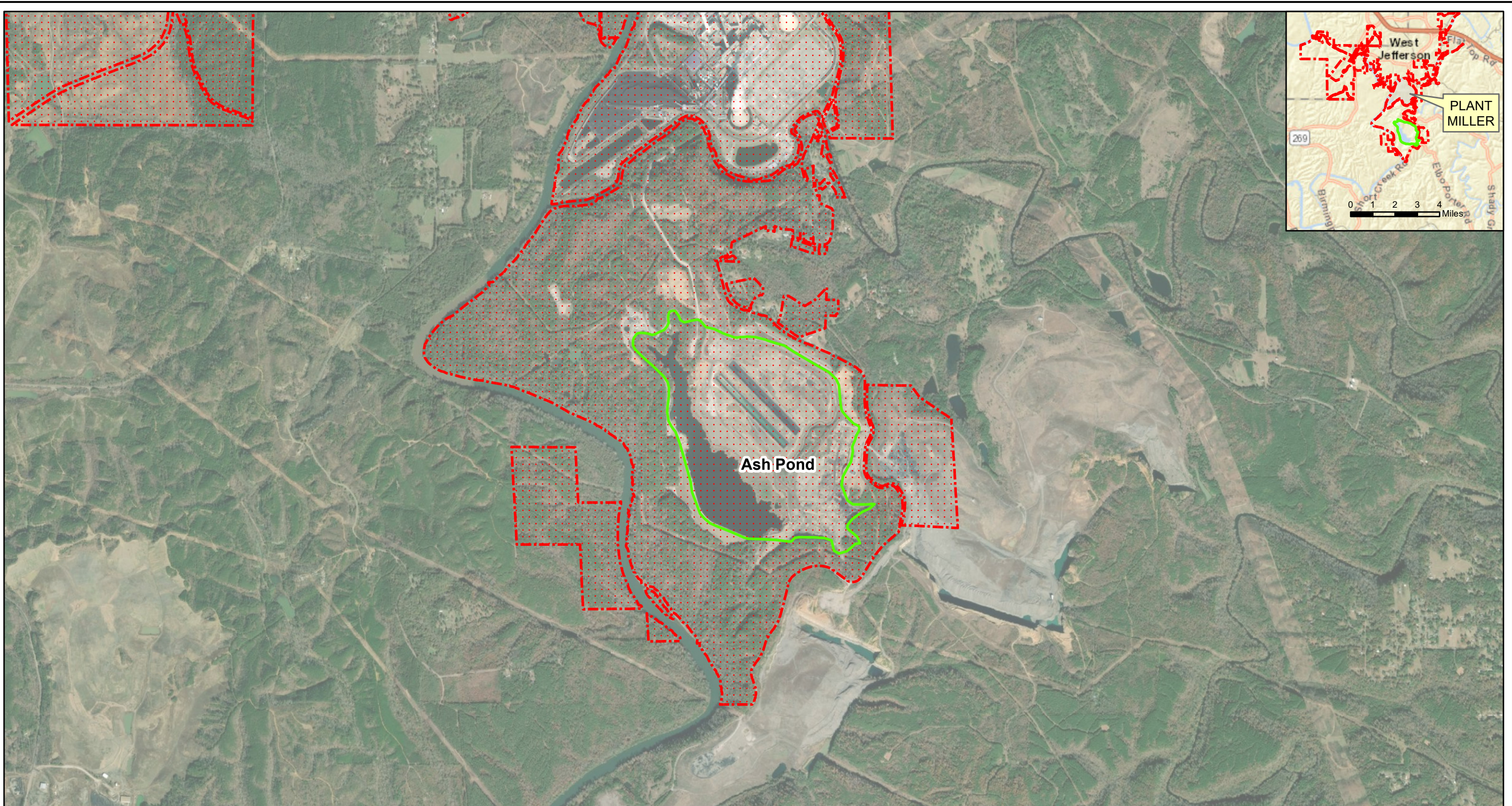
**Table 16.**  
**Pottsville Background - Lithium and Boron Concentrations**

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

Notes:

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

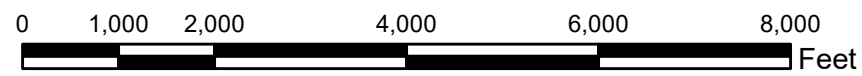
# Figures



Ash Pond

**Legend**

- Ash Pond Boundary
- Property Boundary (Approximate)



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DATE 12/16/2020

DRAWN BY KWR

CHECKED BY GBD

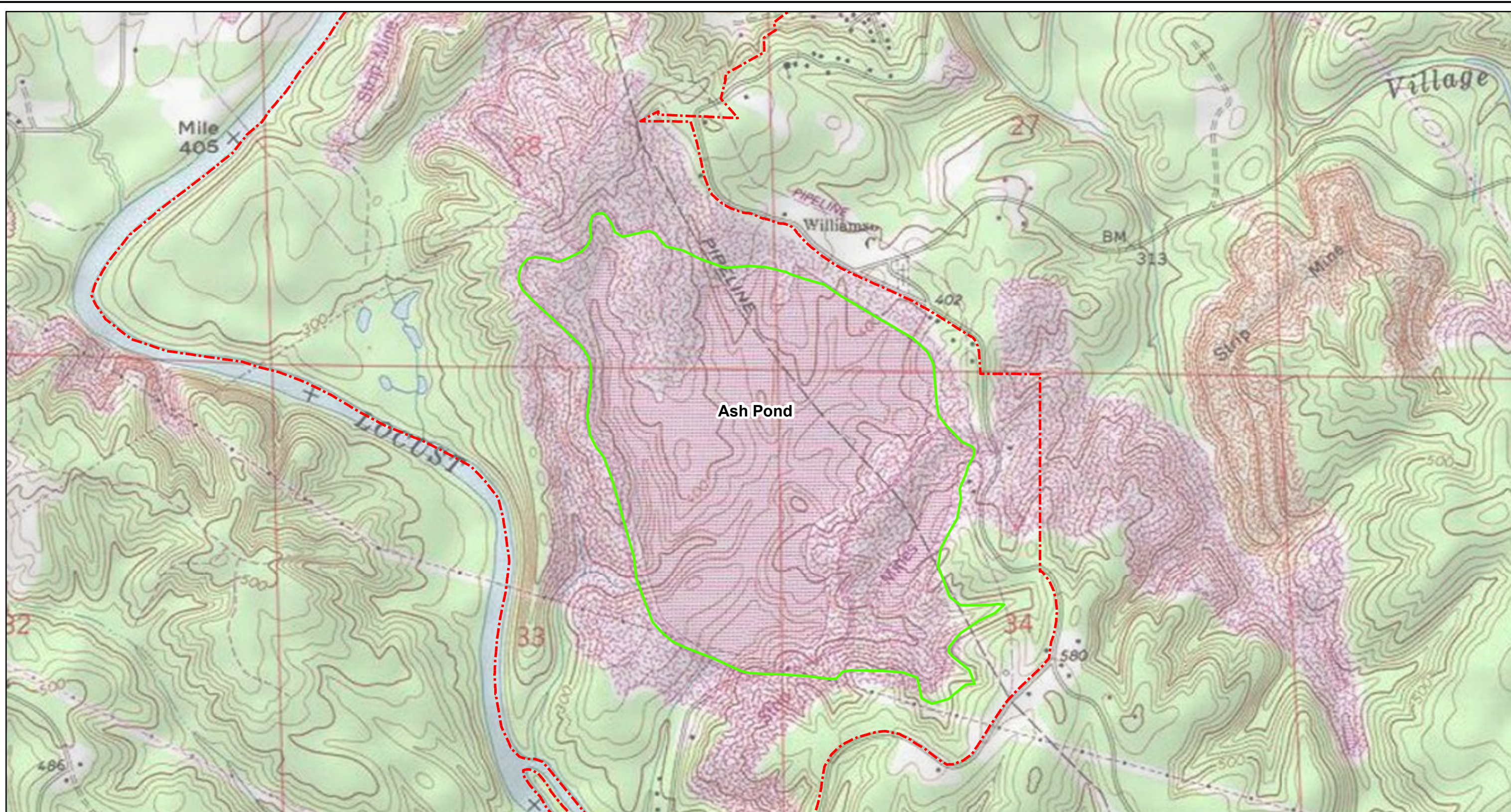
DRAWING TITLE

SITE LOCATION MAP  
PLANT MILLER ASH POND

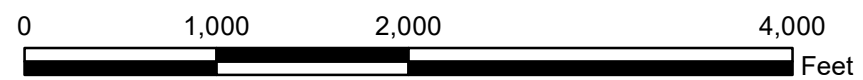
FIGURE NO

**FIGURE 1**





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

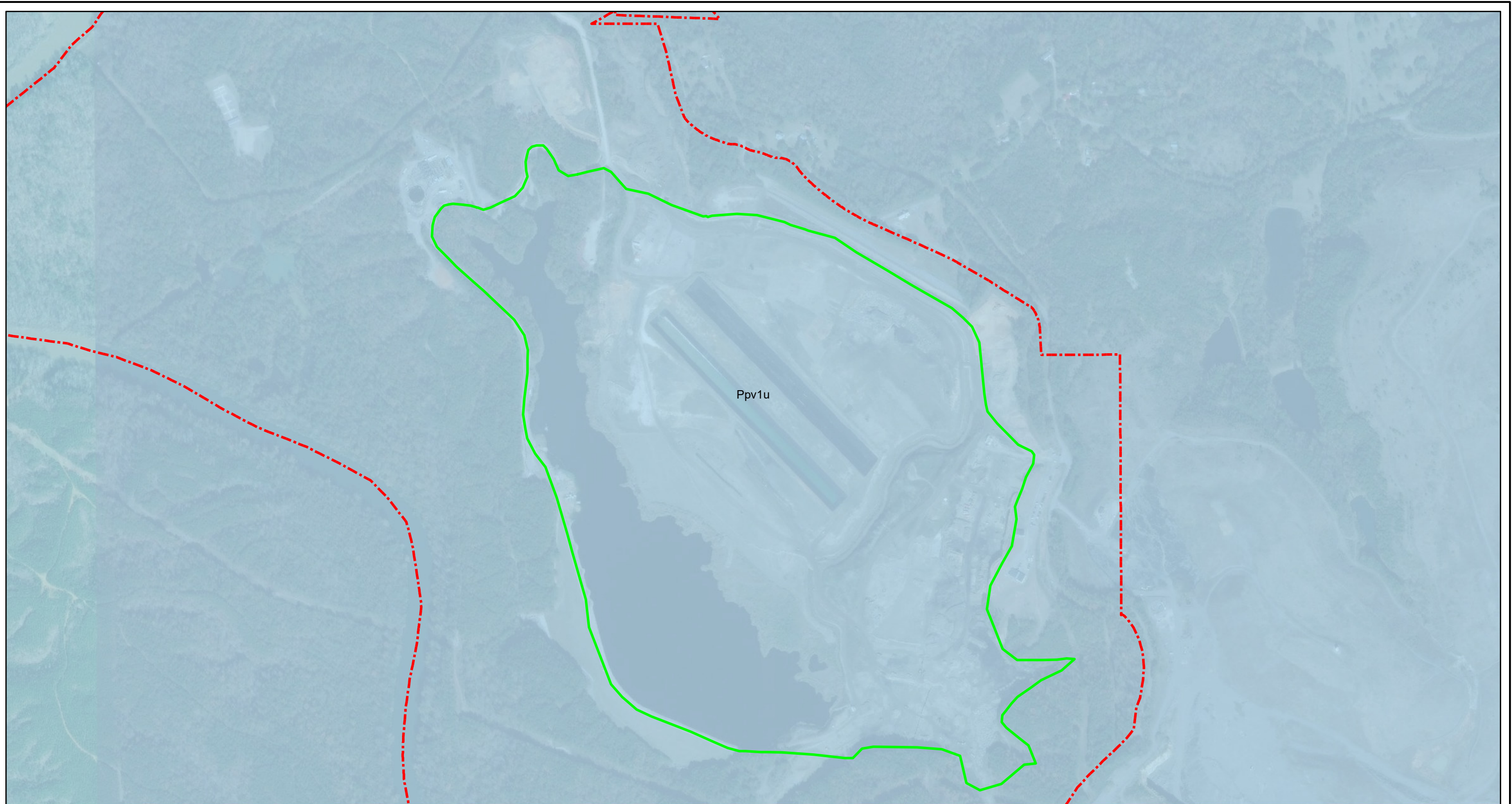


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CHECKED BY	GBD

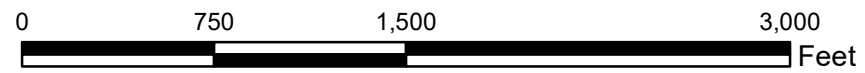
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**SITE TOPOGRAPHIC MAP  
 PLANT MILLER ASH POND**

FIGURE NO  
**FIGURE 2**




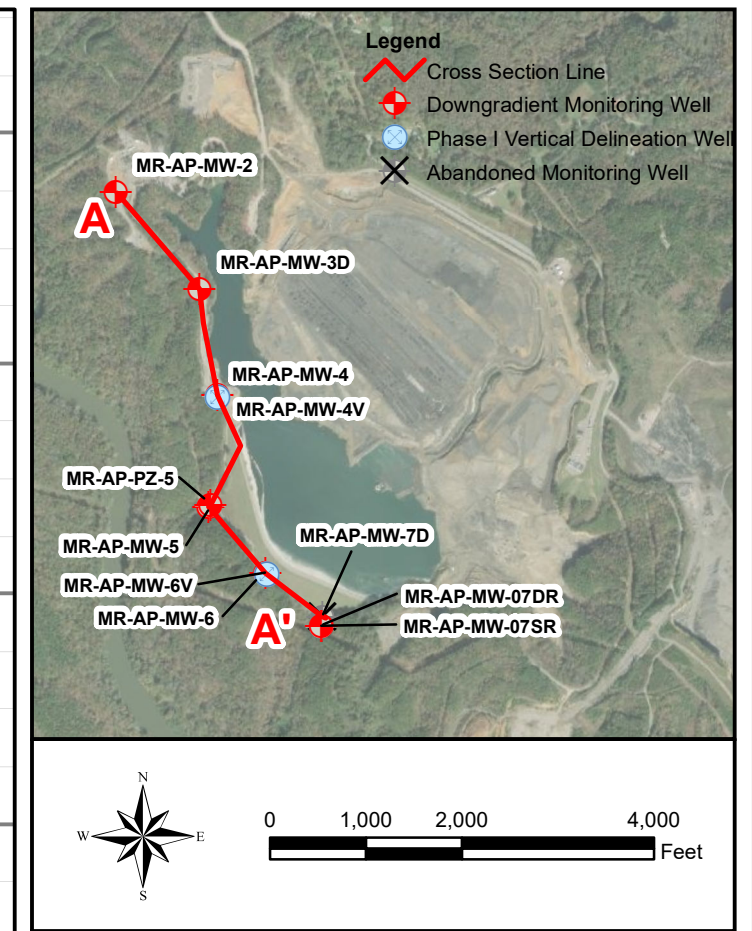
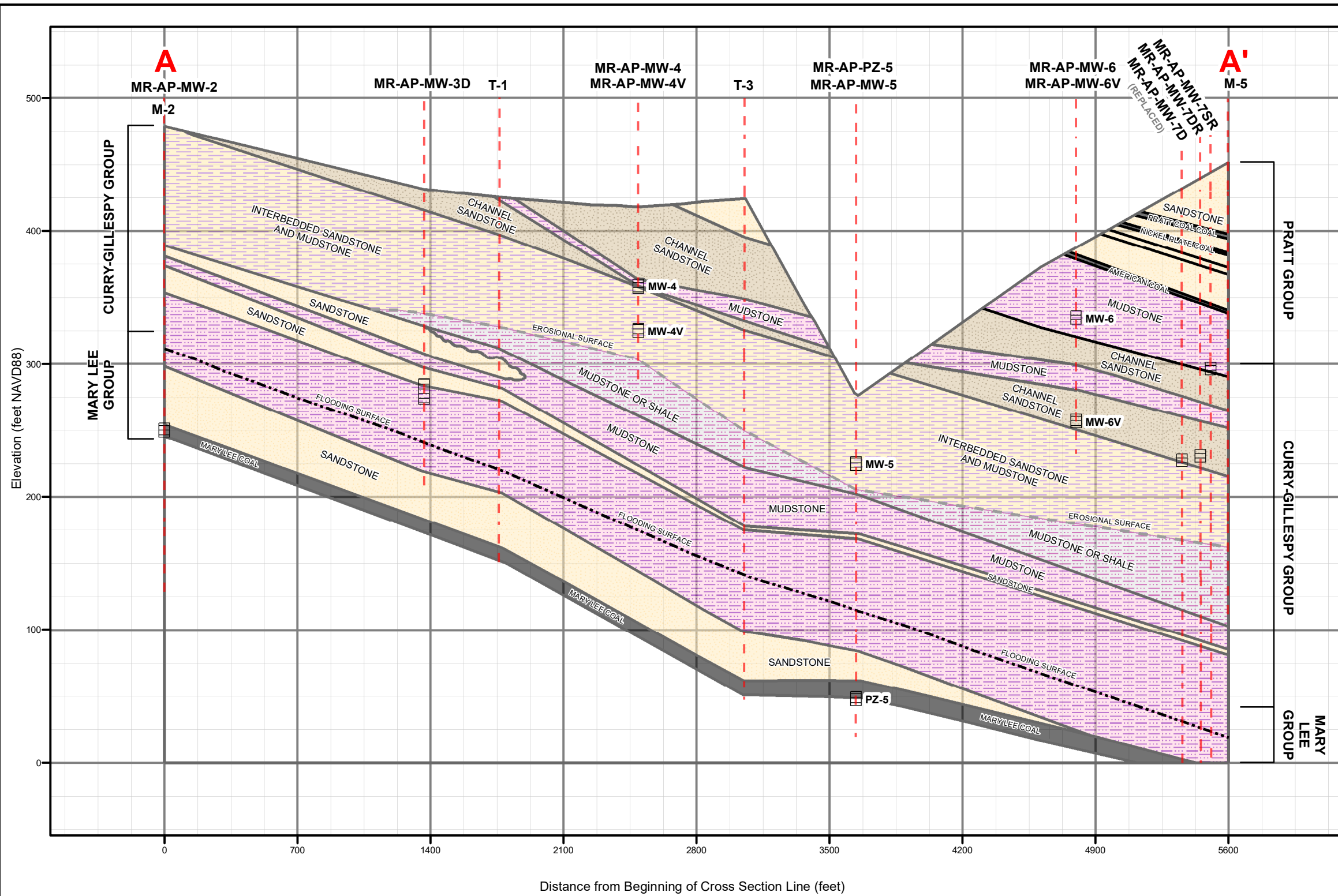


- Legend**
- Ash Pond Boundary
  - Property Boundary (Approximate)
- Geologic Units**
- Pottsville Formation (upper part), Appalachian Plateaus (Ppv1u)



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DRAWN BY	KAR
CHECKED BY	GBD

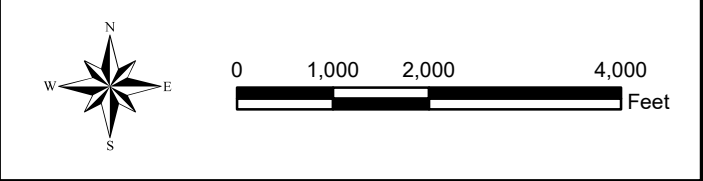
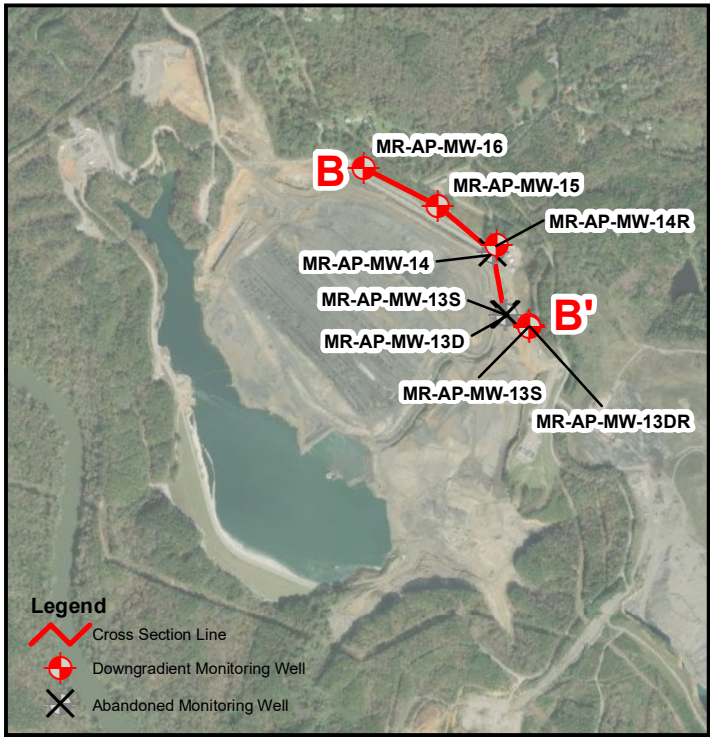
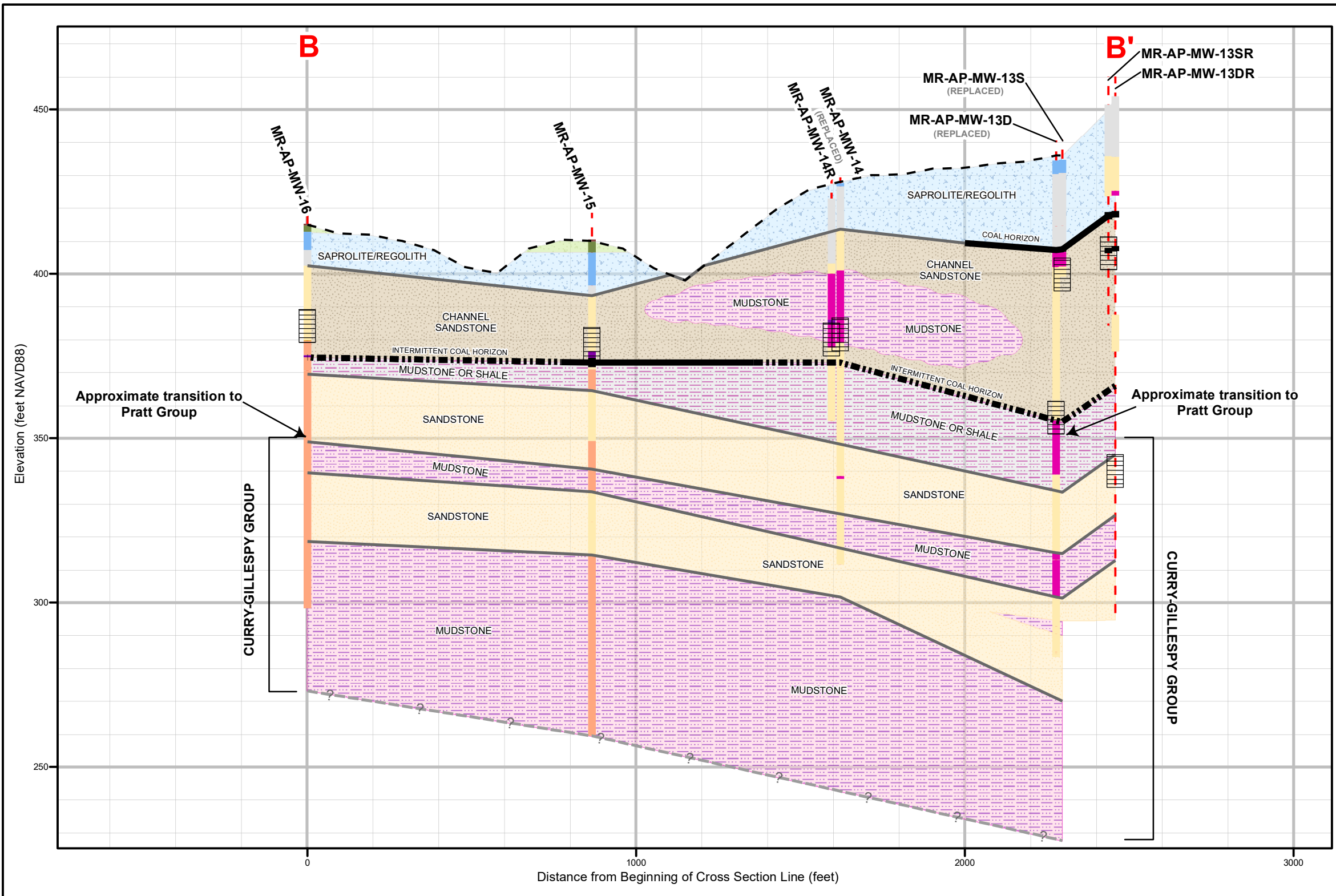
DRAWING TITLE	
SITE GEOLOGIC MAP PLANT MILLER ASH POND	
FIGURE NO	<b>FIGURE 3</b>
	



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.

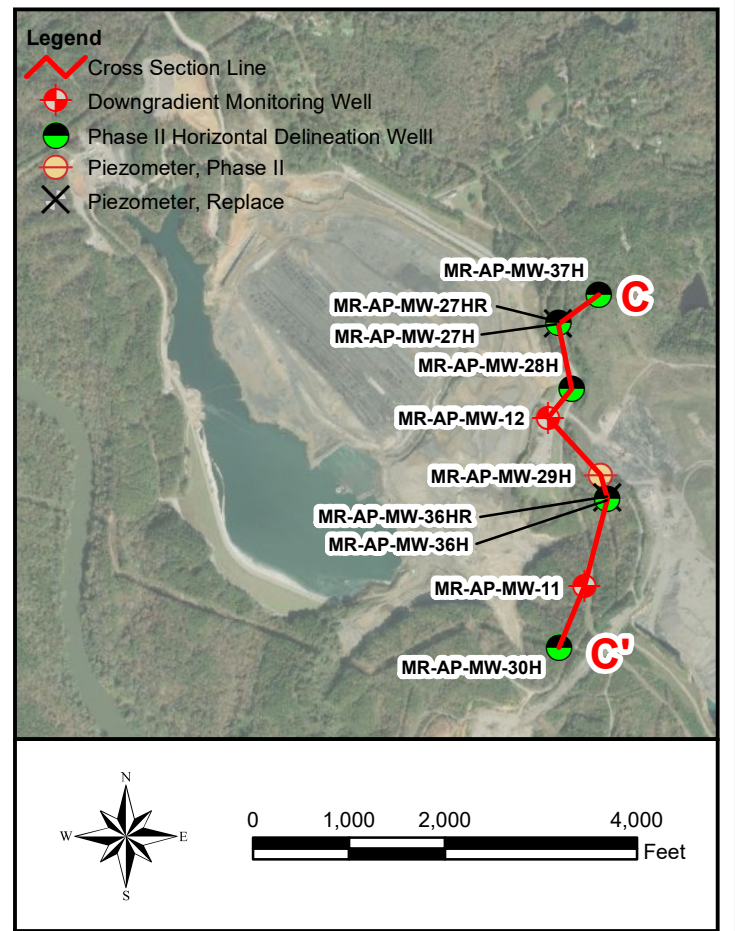
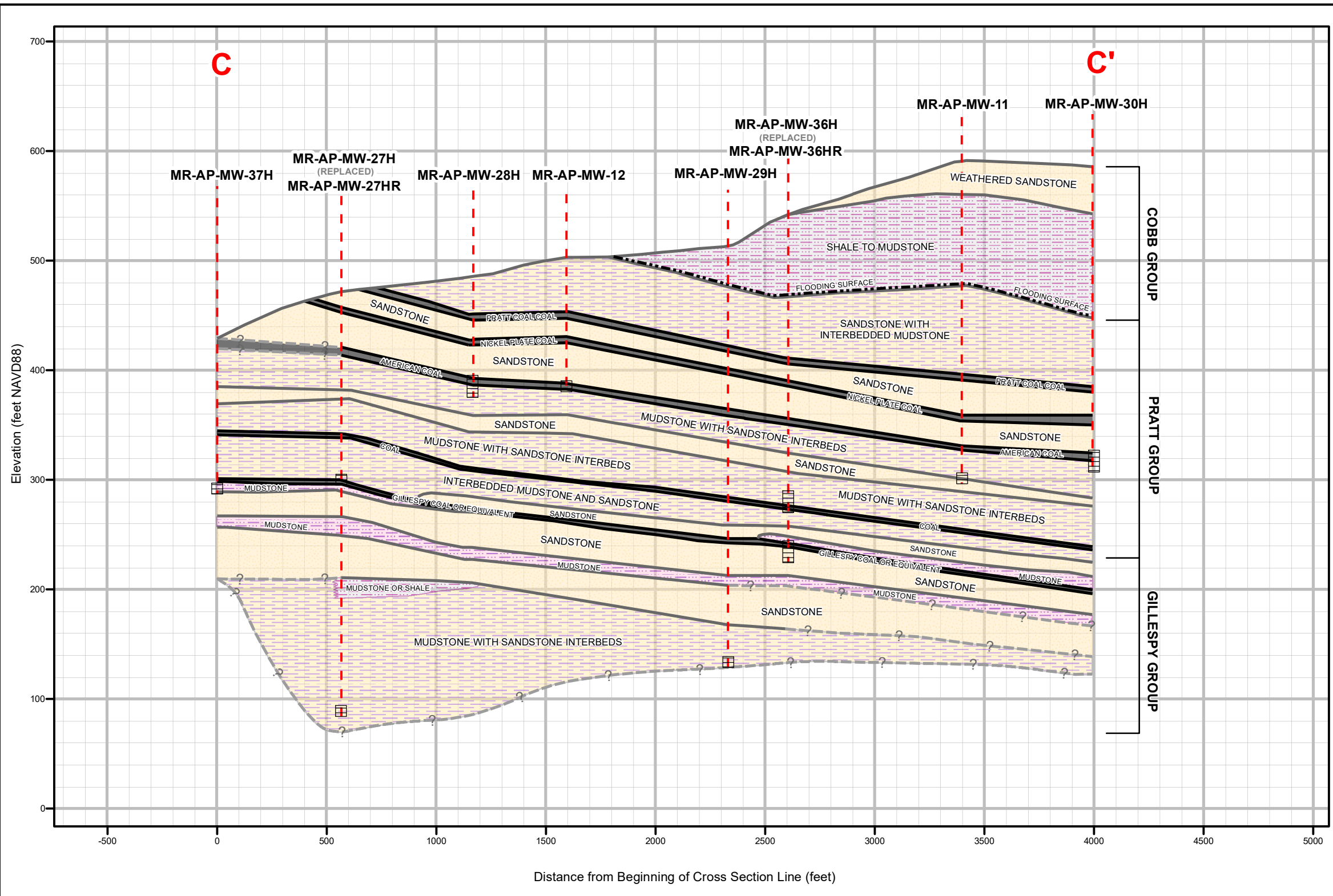
<b>Legend</b> 	<b>Geologic Units</b> 		SCALE As Shown	DRAWING TITLE <b>GEOLOGIC CROSS SECTION A - A'</b> <b>PLANT MILLER ASH POND</b>	
			DATE 8/1/2021		
			DRAWN BY KWR		
			CHECKED BY GBD	FIGURE NO <b>FIGURE 4A</b>	





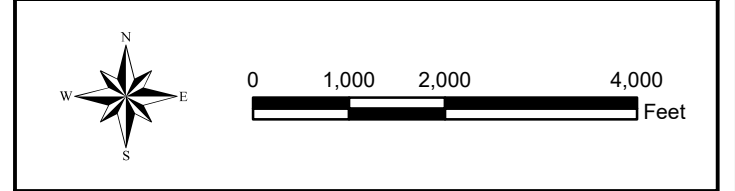
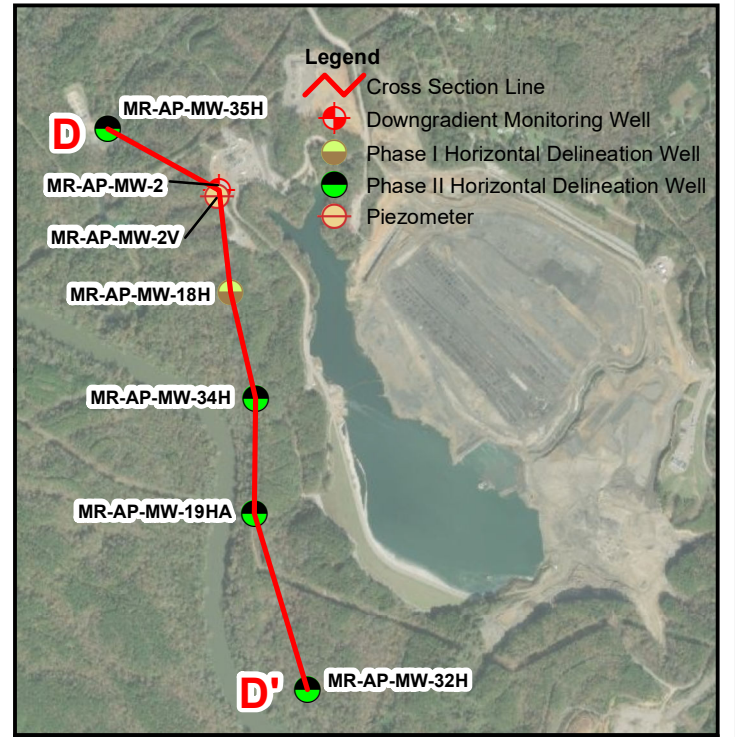
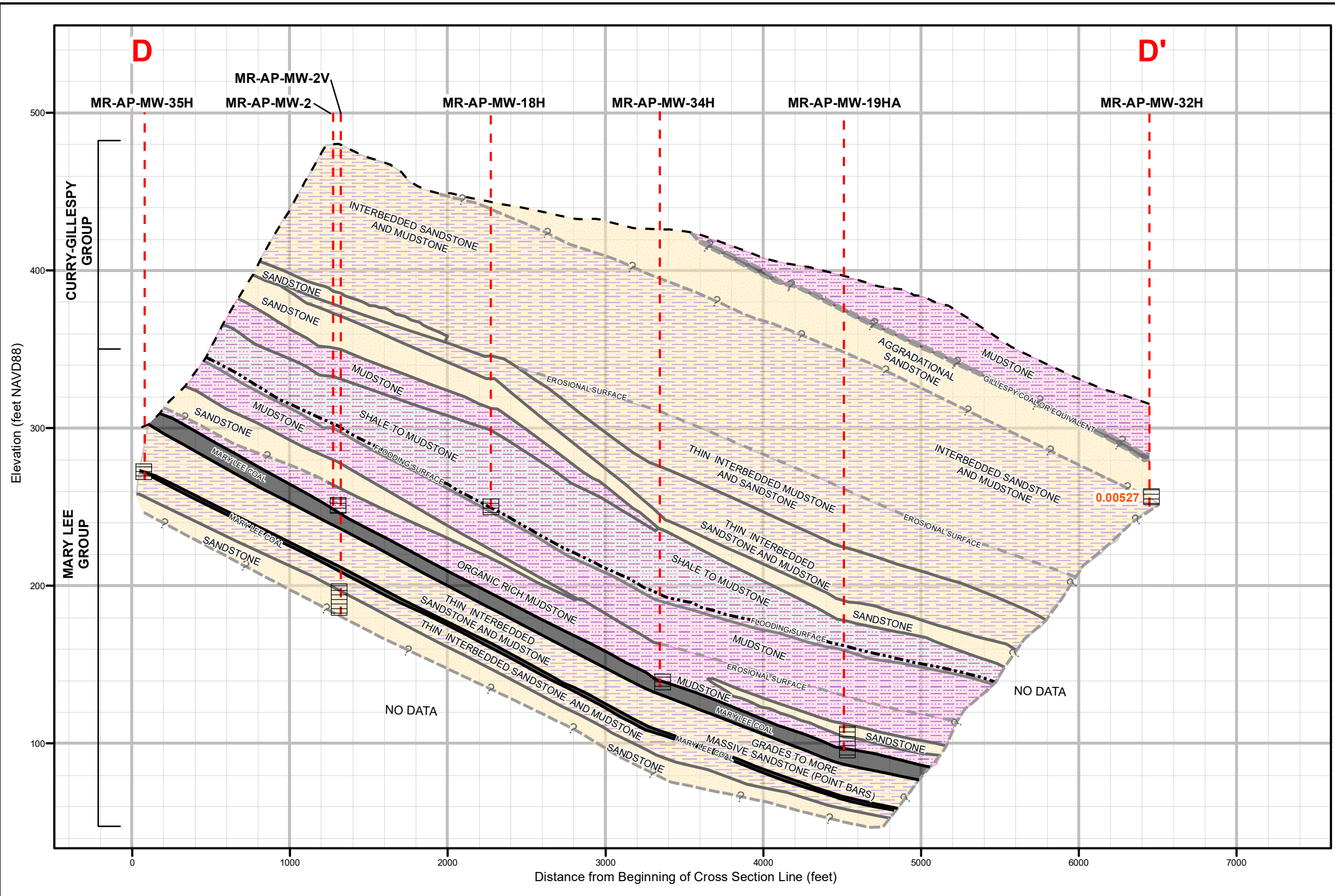
Notes: 1. Stratigraphic layers were correlated using a combination of boring data and gamma logs.  
 2. Source of ground surface elevation data: Lidar  
 3. NAVD88 indicates North American Vertical Datum of 1988.

<b>Legend</b> 	<b>Borehole Descriptions</b>		<b>Geologic Units</b>		SCALE As Shown	DRAWING TITLE		
	Coal Organic Silt Data unavailable Saprolite/Regolith Clayey Silt Sand Gravel and Sand	Mudstone Shale Sandstone Interbedded Mudstone and Sandstone Sandstone with Thin Coal Beds Coal lense	Topsoil Saprolite/Regolith Mudstone or Shale Mudstone	Channel Sandstone Sandstone Coal	DATE 7/26/2021	<b>GEOLOGIC CROSS SECTION B - B'</b> <b>PLANT MILLER ASH POND</b>		
					DRAWN BY KWR			
					CHECKED BY GBD	<b>FIGURE 4B</b>		



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).

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

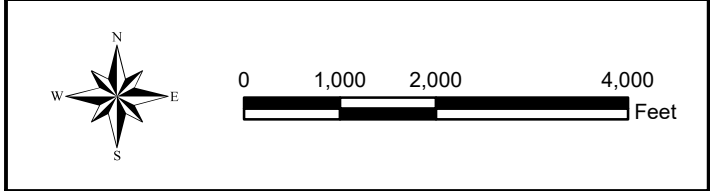
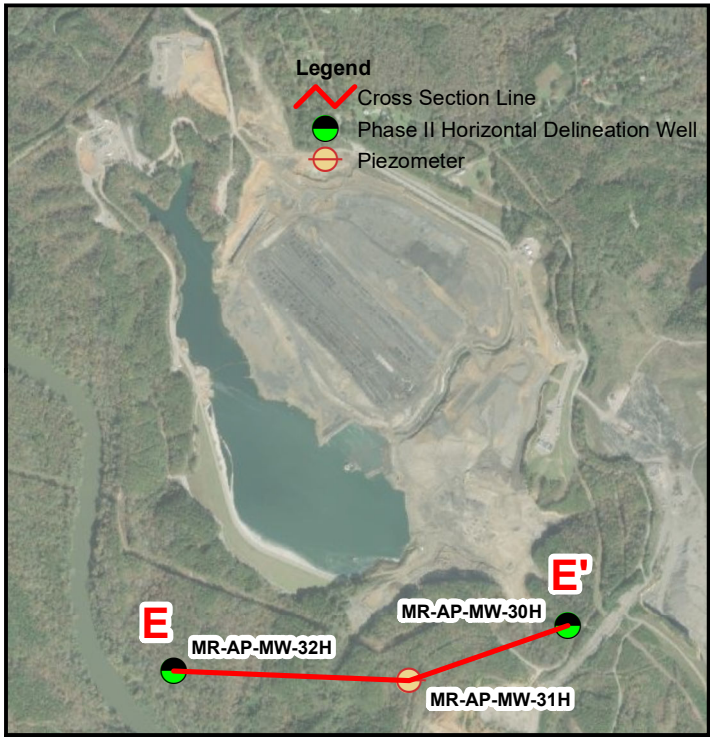
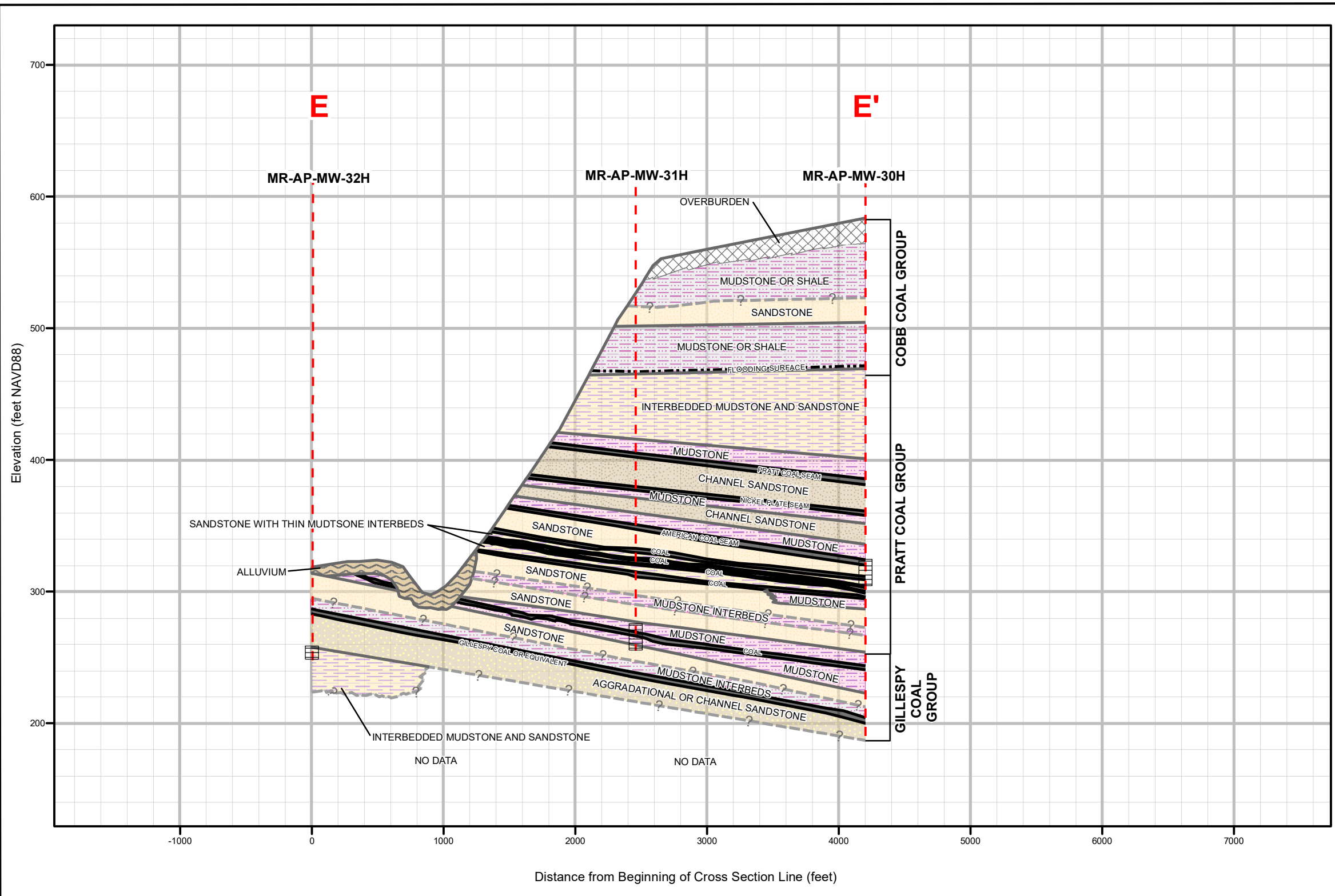


Notes: 1. Stratigraphic layers were correlated using a combination of boring data and gamma logs.  
 2. NAVD88 indicates North American Vertical Datum of 1988.

Legend			Geologic Units		
	Screen Interval		Group Boundary		Shale to Mudstone
	Monitoring Well Location		Ground Surface Elevation		Mudstone
	Coal		Inferred Strata Boundary		Interbedded Mudstone and Sandstone
			Strata Boundary		Sandstone
			Flooding Surface		Coal
			Erosional Surface		

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

DRAWING TITLE	
<b>GEOLOGIC CROSS SECTION D - D' PLANT MILLER ASH POND</b>	
FIGURE NO	<b>FIGURE 4D</b>
Southern Company	



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

**Legend**

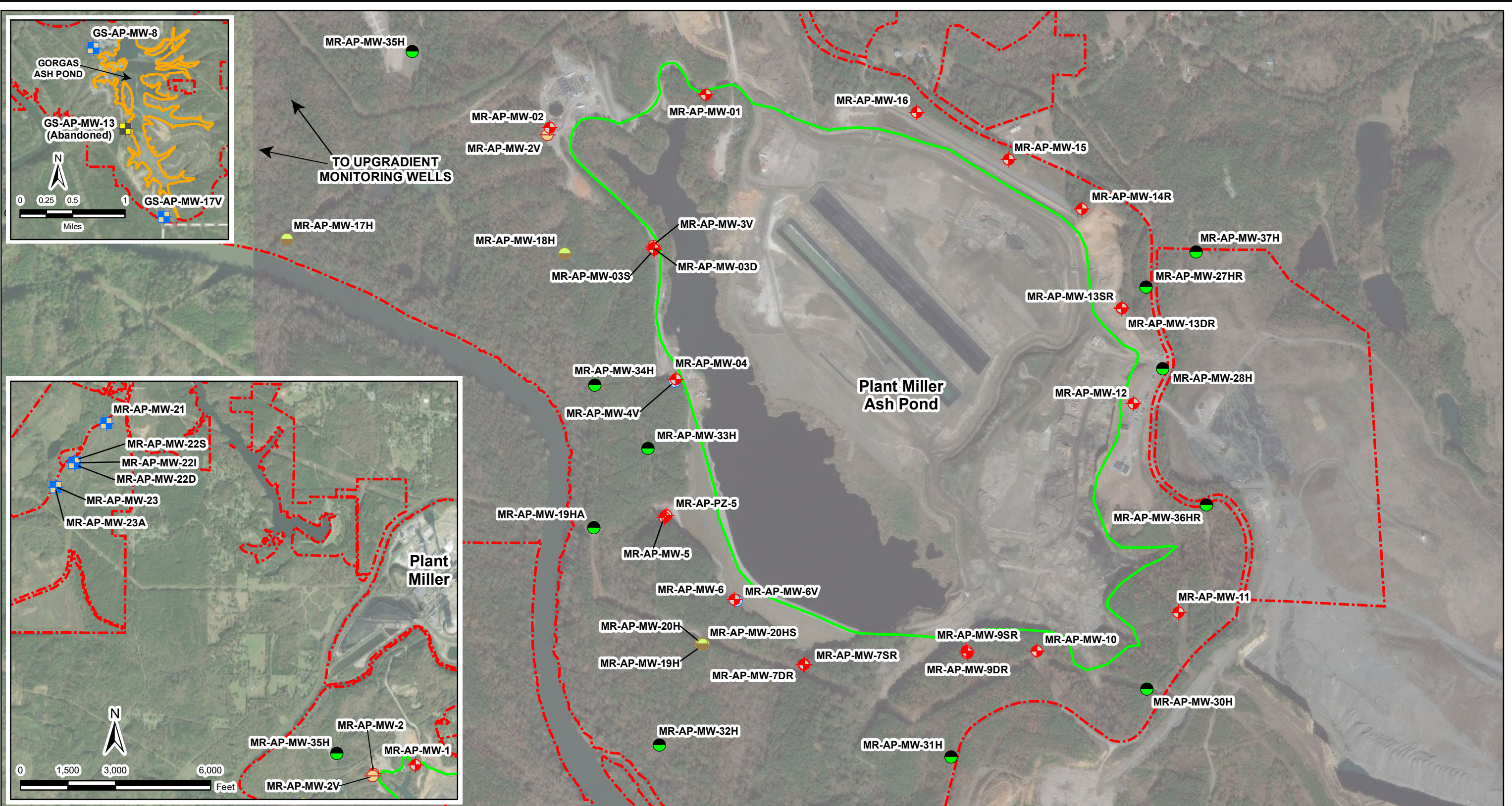
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- Monitoring Well Location
- Inferred Strata Boundary
- Strata Boundary
- Flooding Surface
- Erosional Surface
- Coal

**Geological Units**

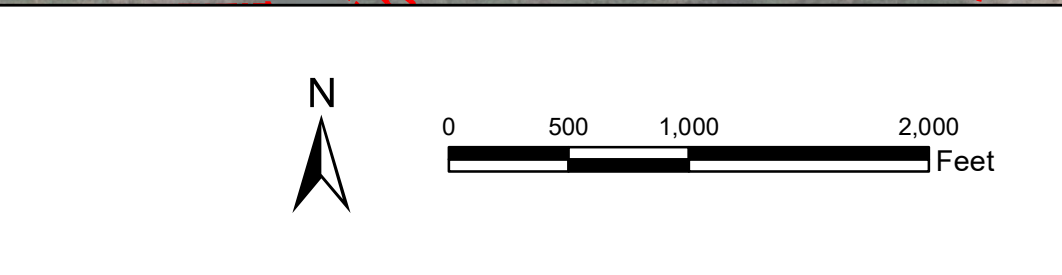
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- Overburden
- Mudstone or Shale
- Mudstone
- Interbedded Mudstone and Sandstone
- Channel Sandstone
- Aggradational or Channel Sandstone
- Sandstone
- Coal

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

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



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



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

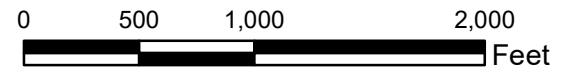


Well ID	Purpose	Groundwater Elevation
MR-AP-MW-18H	Horizontal Delineation	284.14
MR-AP-MW-2V	Piezometer	215.74
MR-AP-MW-3V	Piezometer	281.00

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

- Legend**
- Downgradient
  - Horizontal Delineation
  - 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

- N



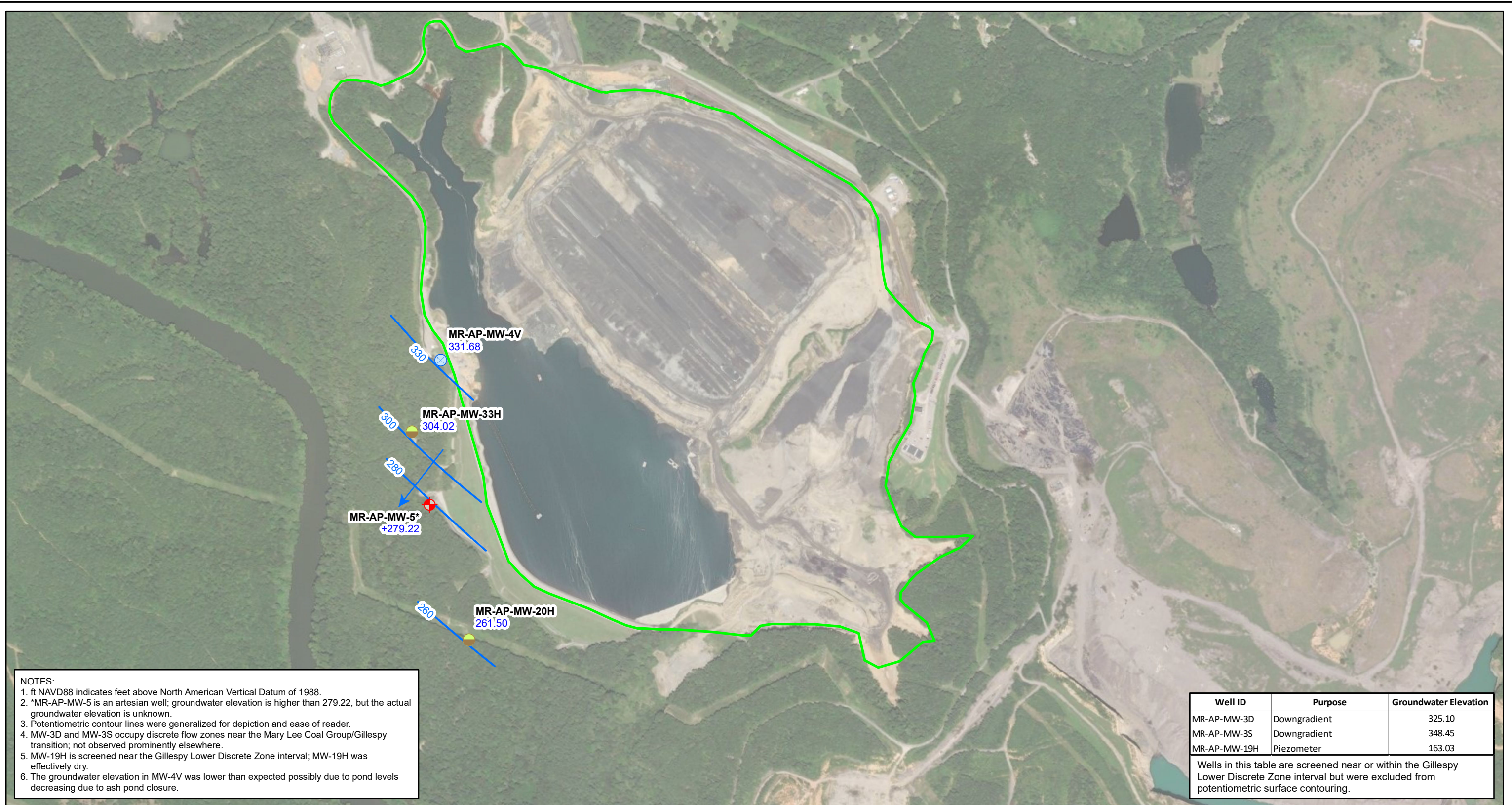
NOTES:  
 1. ft NAVD88 indicates feet above the North American Vertical Datum of 1988.  
 2. \*MR-AP-PZ-5 is an artesian well; groundwater elevation is higher than 279.66, but the actual groundwater elevation is unknown.  
 3. MW-2V, MW-17H, and MW-35H are located stratigraphically lower than the Mary Lee Coal but within the Mary Lee Coal Group; MW-2V was effectively dry.  
 4. MW-3V is located stratigraphically above the Mary Lee Coal but within the Mary Lee Coal Group; MW-3 was effectively dry.

SCALE	1:10000
DATE	5/24/2022
DRAWN BY	KWR
CHECKED BY	GBD

DRAWING TITLE  
**POTENTIOMETRIC SURFACE CONTOUR MAP**  
**MARCH 7, 2022**  
**MARY LEE AQUIFER**  
**PLANT MILLER ASH POND**

FIGURE NO  
**FIGURE 6A**

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



**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.  
 4. MW-3D and MW-3S occupy discrete flow zones near the Mary Lee Coal Group/Gillespy transition; not observed prominently elsewhere.  
 5. MW-19H is screened near the Gillespy Lower Discrete Zone interval; MW-19H was effectively dry.  
 6. The groundwater elevation in MW-4V was lower than expected possibly due to pond levels decreasing due to ash pond closure.

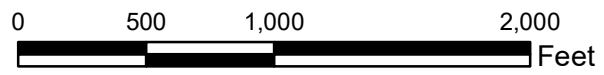
Well ID	Purpose	Groundwater Elevation
MR-AP-MW-3D	Downgradient	325.10
MR-AP-MW-3S	Downgradient	348.45
MR-AP-MW-19H	Piezometer	163.03

Wells in this table are screened near or within the Gillespy Lower Discrete Zone interval but were excluded from potentiometric surface contouring.

**Legend**

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

**MR-AP-MW-5** Well ID  
 279.22 Groundwater Elevation









SCALE	1:9000
DATE	5/12/2022
DRAWN BY	KWR
CHECKED BY	GBD

**DRAWING TITLE**  
 POTENTIOMETRIC SURFACE CONTOUR MAP  
 MARCH 7, 2022  
 GILLESPY LOWER DISCRETE FLOW ZONE  
 PLANT MILLER ASH POND

**FIGURE NO**  
**FIGURE 6B**




**Legend**

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

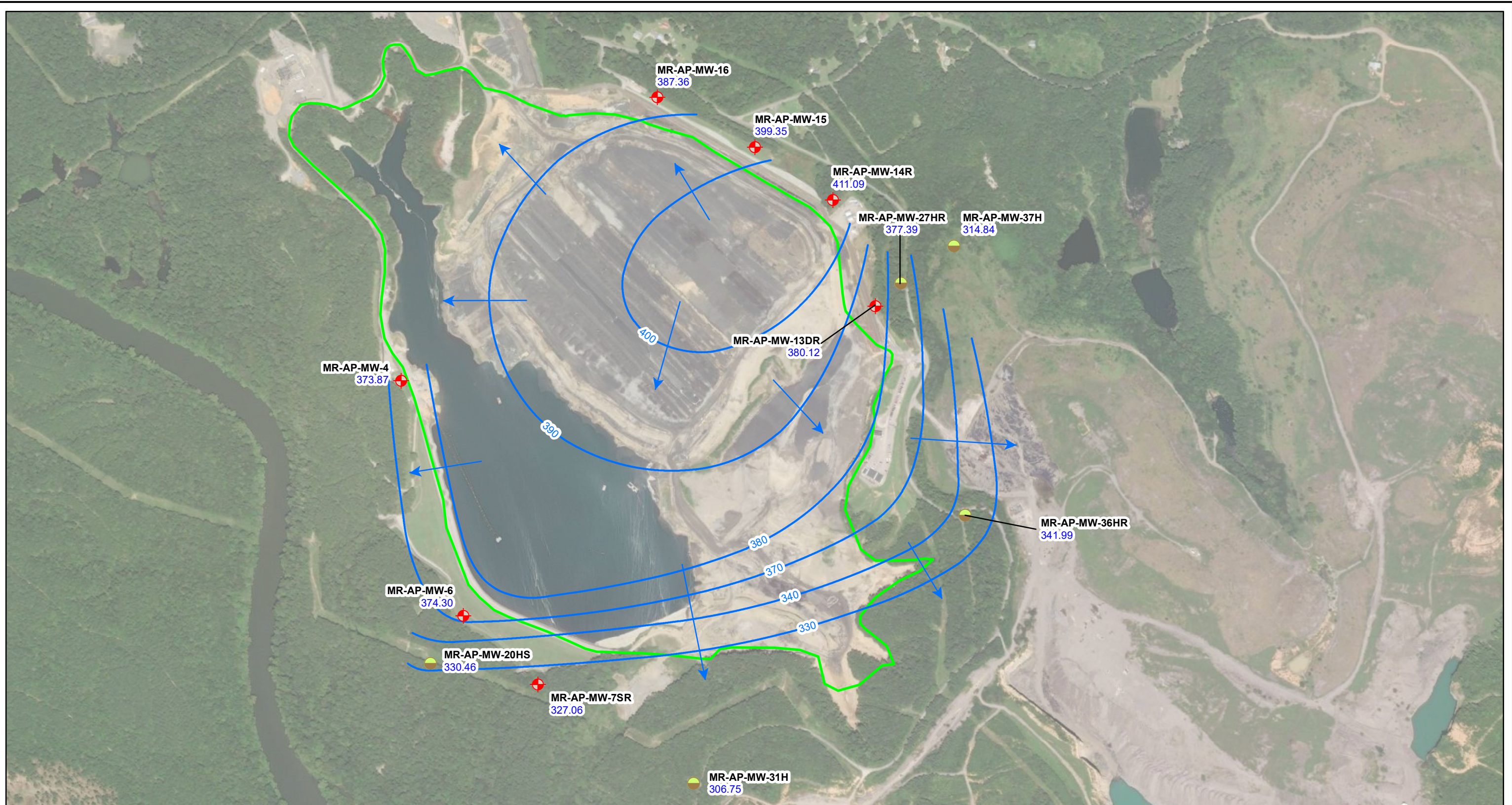
**MR-AP-MW-6V** Well ID  
260.47 Groundwater Elevation








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.

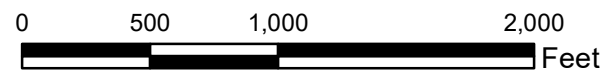
SCALE	1:9000	DRAWING TITLE <b>POTENTIOMETRIC SURFACE CONTOUR MAP</b> MARCH 7, 2022 GILLESPY LOWER SANDSTONE UNIT(S) PLANT MILLER ASH POND
DATE	5/24/2022	
DRAWN BY	KWR	FIGURE NO <b>FIGURE 6C</b>
CHECKED BY	GBD	
		






**Legend**

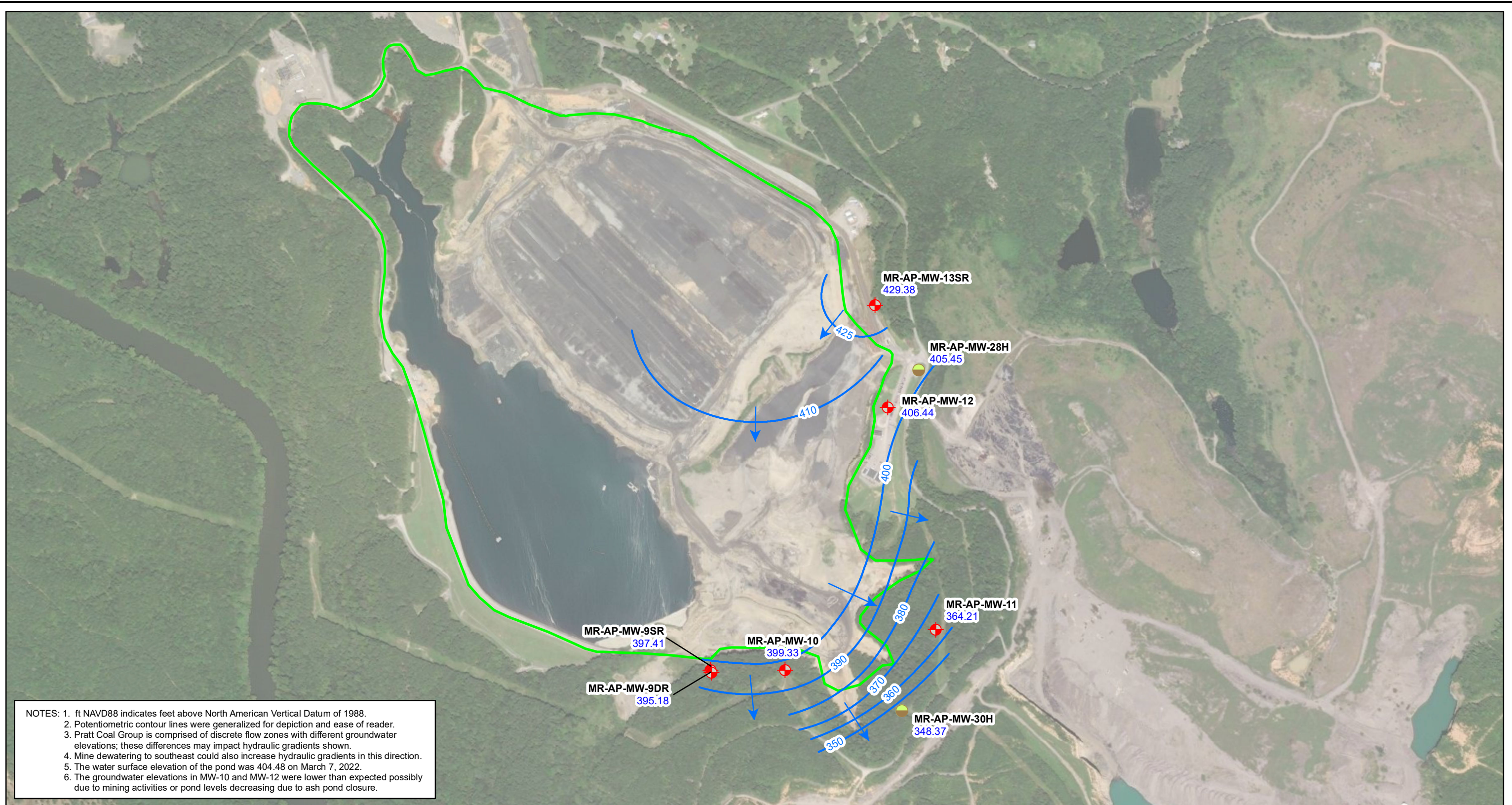
-  Downgradient
-  Horizontal Delineation
-  Conceptual Potentiometric Surface Contour (ft NAVD88)
-  Approximate Groundwater Flow Direction
-  Ash Pond Boundary
- MR-AP-MW-7SR** Well ID  
327.06 Groundwater Elevation



- 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-20HS, MW-7SR, and MW-37H screened in lower portions of transition zone and slightly increase hydraulic gradients to southeast.  
 4. Groundwater elevations in MW-31H and MW-37H were lower than expected possibly due to mining operations or pond levels decreasing due to ash pond closure.






SCALE	1:9000
DATE	5/16/2022
DRAWN BY	KWR
CHECKED BY	GBD

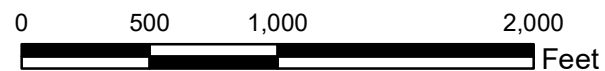
DRAWING TITLE	
POTENTIOMETRIC SURFACE CONTOUR MAP MARCH 7, 2022 GILLESPIY COAL - PRATT TRANSITION ZONE PLANT MILLER ASH POND	
FIGURE NO	<b>FIGURE 6D</b>
	




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 water surface elevation of the pond was 404.48 on March 7, 2022.  
 6. The groundwater elevations in MW-10 and MW-12 were lower than expected possibly due to mining activities or pond levels decreasing due to ash pond closure.

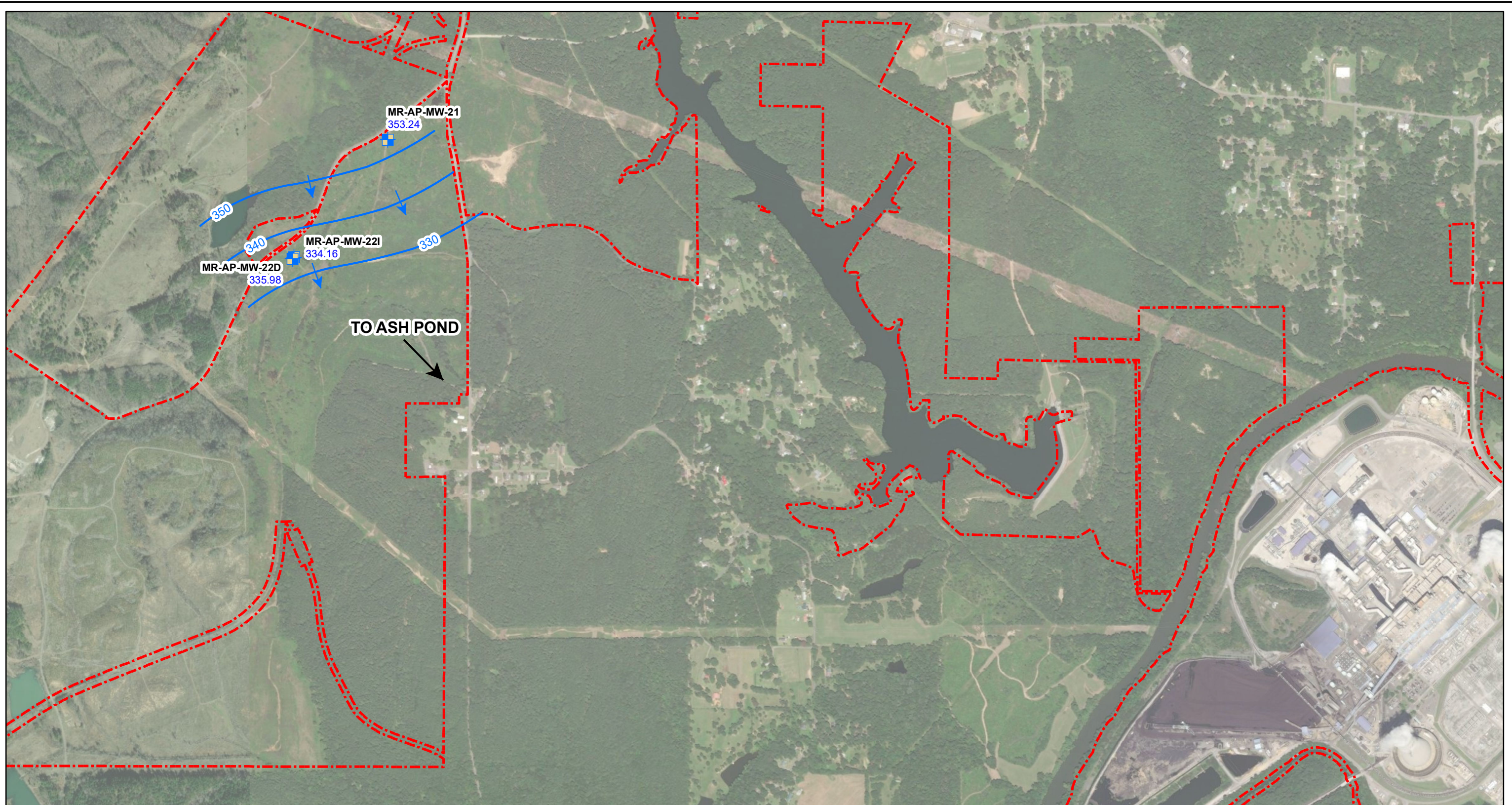
**Legend**





-  Downgradient
-  Horizontal Delineation
-  Conceptual Potentiometric Surface Contour (ft NAVD88)
-  Approximate Groundwater Flow Direction
-  Ash Pond Boundary
- MR-AP-MW-9SR** Well ID  
397.41 Groundwater Elevation



SCALE	1:9000
DATE	5/24/2022
DRAWN BY	KWR
CHECKED BY	GBD

DRAWING TITLE	POTENTIOMETRIC SURFACE CONTOUR MAP
	MARCH 7, 2022
DRAWING TITLE	PRATT COAL GROUP (GENERALIZED)
	PLANT MILLER ASH POND
FIGURE NO	<b>FIGURE 6E</b>
	




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

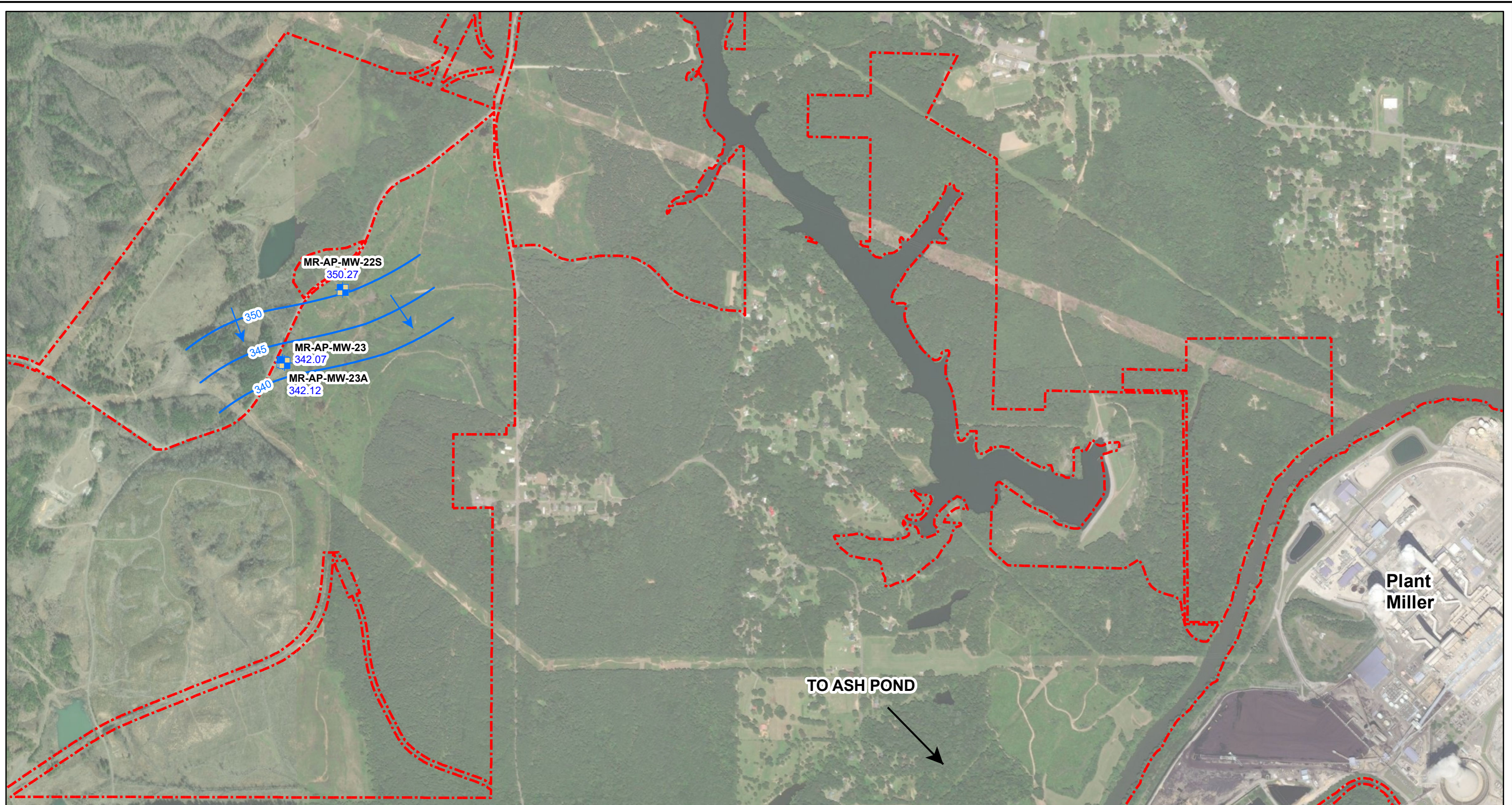
**MR-AP-MW-22D** Well ID  
 335.98 Groundwater Elevation







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

SCALE	1:12000
DATE	5/24/2022
DRAWN BY	KWR
CHECKED BY	GBD

DRAWING TITLE	
POTENTIOMETRIC SURFACE CONTOUR MAP MARCH 7, 2022 UPGRADIENT MONITORING WELLS - DEEP PLANT MILLER ASH POND	
FIGURE NO	<b>FIGURE 6F</b>
	




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

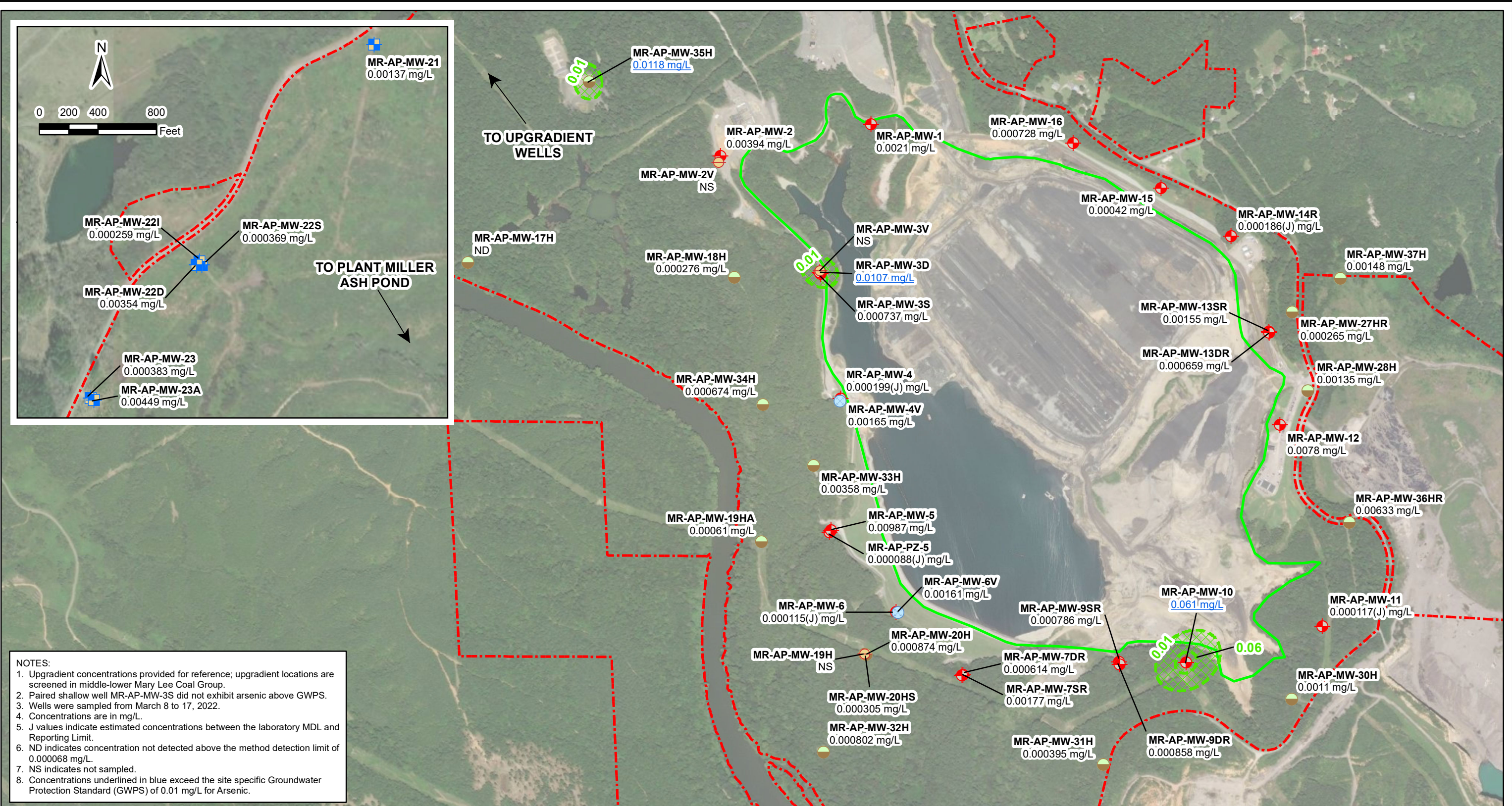
MR-AP-MW-23 Well ID  
342.07 Groundwater Elevation



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

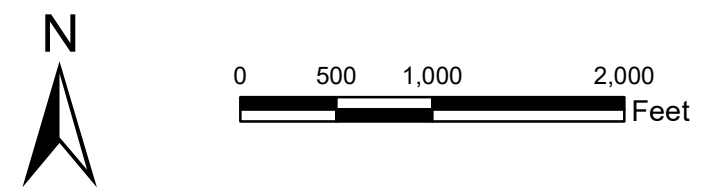
SCALE	1:12000
DATE	5/12/2022
DRAWN BY	KWR
CHECKED BY	GBD

DRAWING TITLE	
POTENTIOMETRIC SURFACE CONTOUR MAP MARCH 7, 2022	
UPGRADIENT MONITORING WELLS - SHALLOW PLANT MILLER ASH POND	
FIGURE NO	<b>FIGURE 6G</b>
	

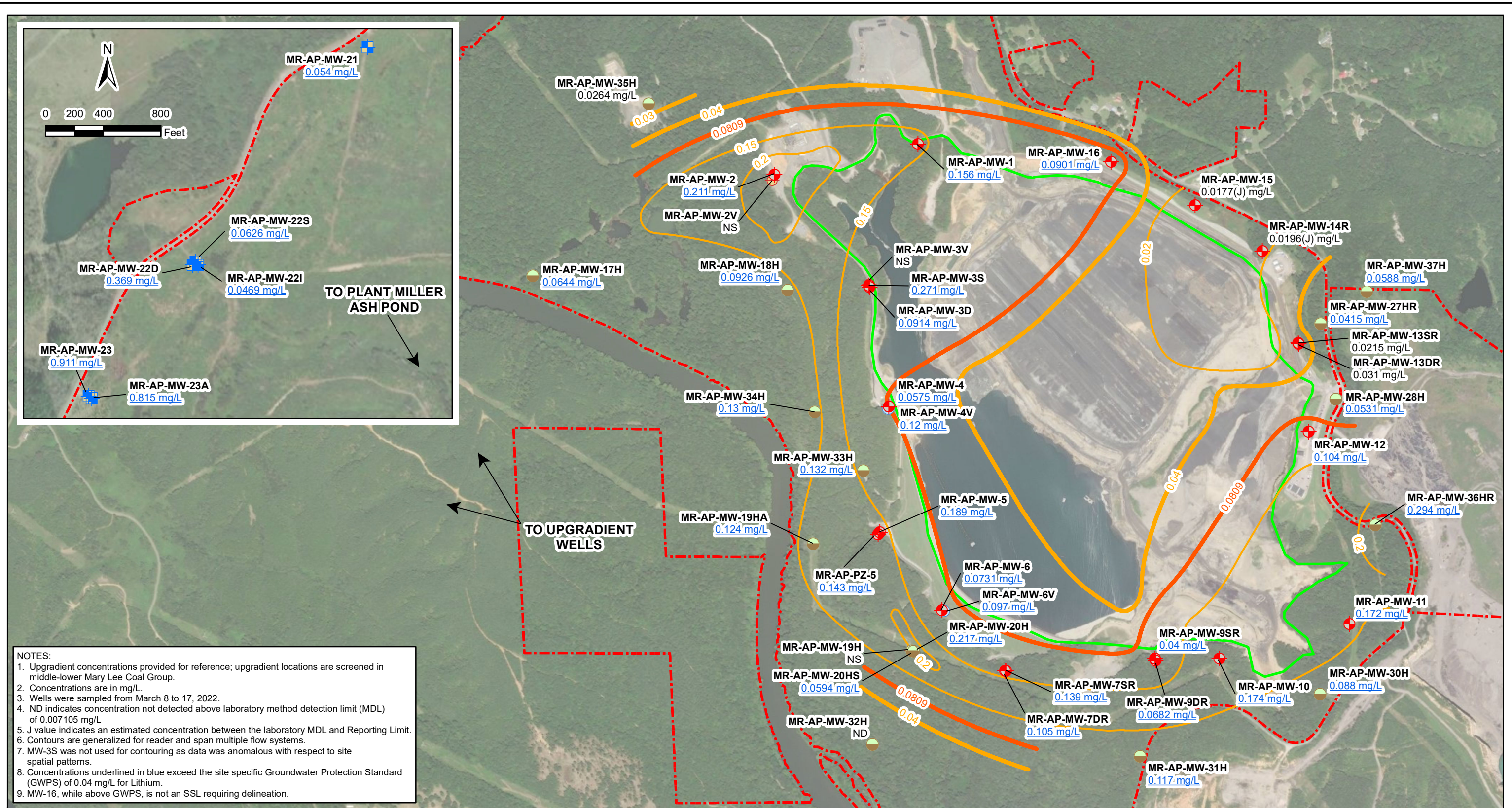


- NOTES:**
1. Upgradient concentrations provided for reference; upgradient locations are screened in middle-lower Mary Lee Coal Group.
  2. Paired shallow well MR-AP-MW-3S did not exhibit arsenic above GWPS.
  3. Wells were sampled from March 8 to 17, 2022.
  4. Concentrations are in mg/L.
  5. J values indicate estimated concentrations between the laboratory MDL and Reporting Limit.
  6. ND indicates concentration not detected above the method detection limit of 0.000068 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)
<b>MR-AP-MW-1</b>	Well ID
0.0021	Arsenic Concentration (mg/L)



SCALE	1:12000	DRAWING TITLE
DATE	5/16/2022	
DRAWN BY	KWR	<b>ARSENIC ISOCONCENTRATION MAP</b> <b>MARCH 2022</b> <b>PLANT MILLER ASH POND</b>
CHECKED BY	GBD	
FIGURE NO		<b>FIGURE 7</b>
Southern Company		



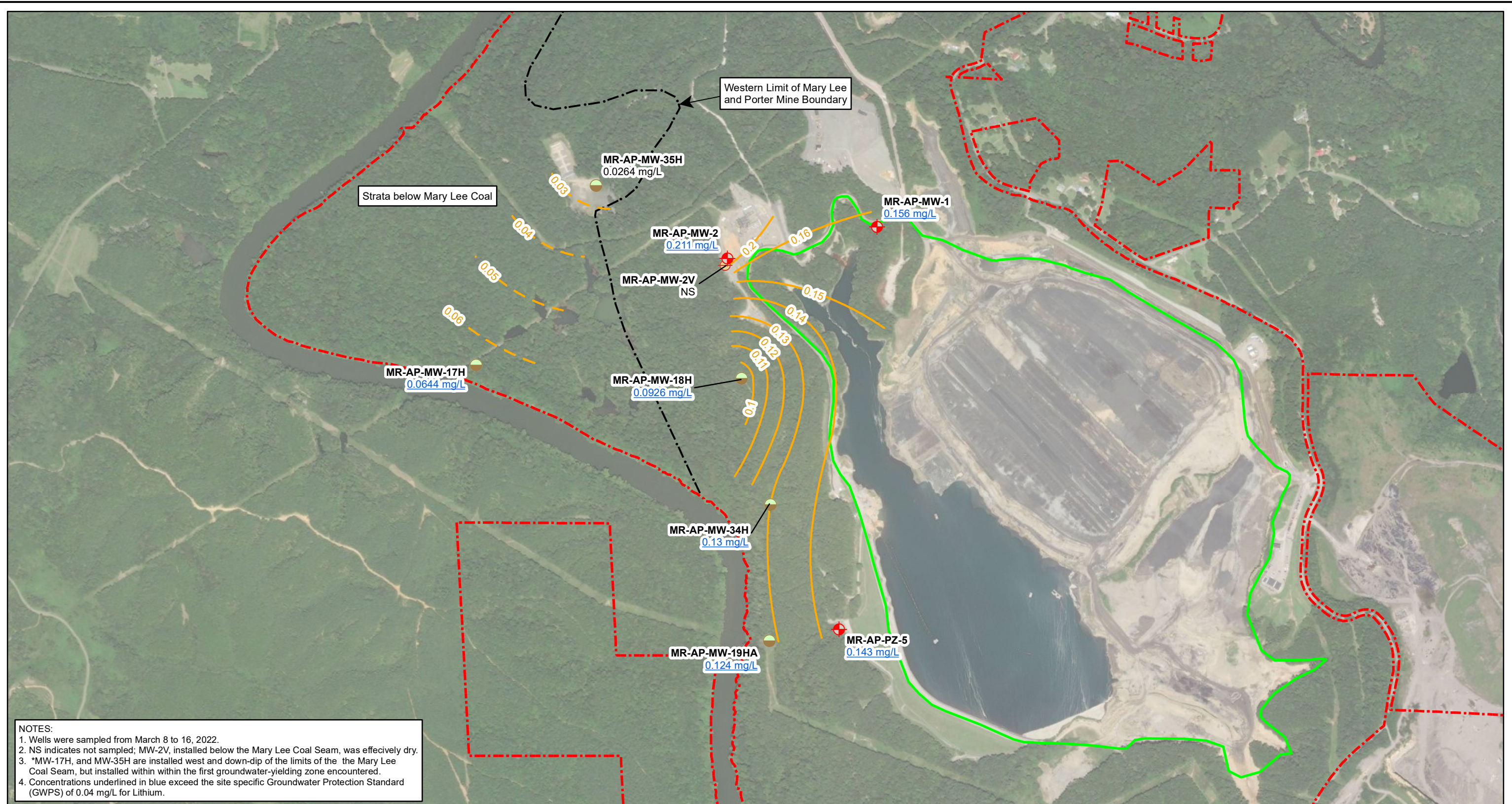
- NOTES:
1. Upgradient concentrations provided for reference; upgradient locations are screened in middle-lower Mary Lee Coal Group.
  2. Concentrations are in mg/L.
  3. Wells were sampled from March 8 to 17, 2022.
  4. ND indicates concentration not detected above laboratory method detection limit (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.
  7. MW-3S was not used for contouring as data was anomalous with respect to site spatial patterns.
  8. Concentrations underlined in blue exceed the site specific Groundwater Protection Standard (GWPS) of 0.04 mg/L for Lithium.
  9. MW-16, while above GWPS, is not an SSL requiring delineation.

Legend	
	Downgradient Monitoring Well
	Horizontal Delineation Well
	Vertical Delineation Well
	Piezometer
	Lithium GWPS Background Contour (0.0809 mg/L)
	Lithium GWPS (RSL) Contour (0.04 mg/L)
	Lithium Isoconcentration Contour (mg/L)
	Ash Pond Boundary
	Property Boundary (Approximate)
	Well ID
	Lithium Concentration (mg/L)



SCALE	1:12500
DATE	5/16/2022
DRAWN BY	KWR
CHECKED BY	GBD

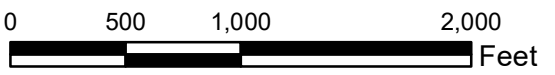
DRAWING TITLE	
LITHIUM ISOCONCENTRATION MAP SEPTEMBER 2021 PLANT MILLER ASH POND	
FIGURE NO	<b>FIGURE 8A</b>
Southern Company	



NOTES:  
 1. Wells were sampled from March 8 to 16, 2022.  
 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	
	Western Limit of Mary Lee and Porter Mine Boundary	

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



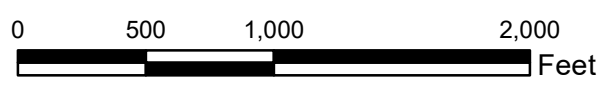
SCALE	1:10000
DATE	5/19/2022
DRAWN BY	KWR
CHECKED BY	GBD

DRAWING TITLE	
LITHIUM ISOCONCENTRATION MAP	
MARY LEE AQUIFER	
MARCH 2022	
PLANT MILLER ASH POND	
FIGURE NO	<b>FIGURE 8B</b>



NOTES:  
 1. ft NAVD88 indicates feet above North American Vertical Datum of 1988.  
 2. Wells were sampled from March 9 to 15, 2022.  
 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.

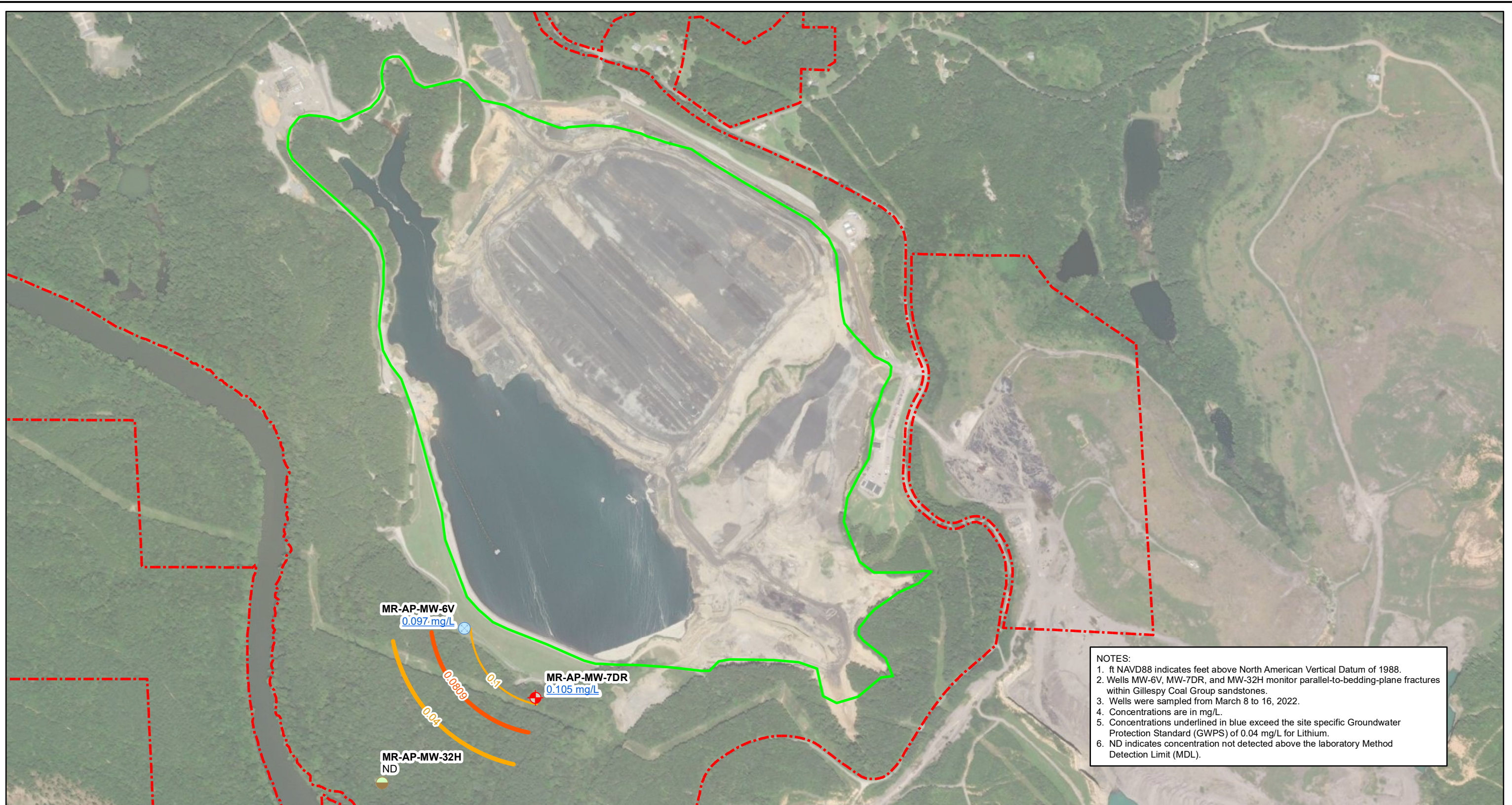
Legend	
	Downgradient Monitoring Well
	Horizontal Delineation Well
	Vertical Delineation Well
	Lithium Contour (mg/L)
	Ash Pond Boundary
	Property Boundary (Approximate)



SCALE	1:9000
DATE	5/20/2022
DRAWN BY	KWR
CHECKED BY	GBD

DRAWING TITLE <b>LITHIUM ISOCONCENTRATION MAP        GILLESPIY LOWER DISCRETE FLOW ZONE        MARCH 2022        PLANT MILLER ASH POND</b>	FIGURE NO
	<b>FIGURE 8C</b>













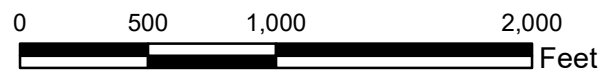
**NOTES:**

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. Wells were sampled from March 8 to 16, 2022.
4. Concentrations are in mg/L.
5. Concentrations underlined in blue exceed the site specific Groundwater Protection Standard (GWPS) of 0.04 mg/L for Lithium.
6. ND indicates concentration not detected above the laboratory Method Detection Limit (MDL).

**Legend**

-  Downgradient Monitoring Well
-  Horizontal Delineation Well
-  Vertical Delineation Well
-  Lithium GWPS Background Contour (0.0809 mg/L)
-  Lithium GWPS (RSL) Contour (0.04 mg/L)
-  Lithium Contour (mg/L)
-  Ash Pond Boundary
-  Property Boundary (Approximate)

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



SCALE 1:9000

DATE 5/20/2022

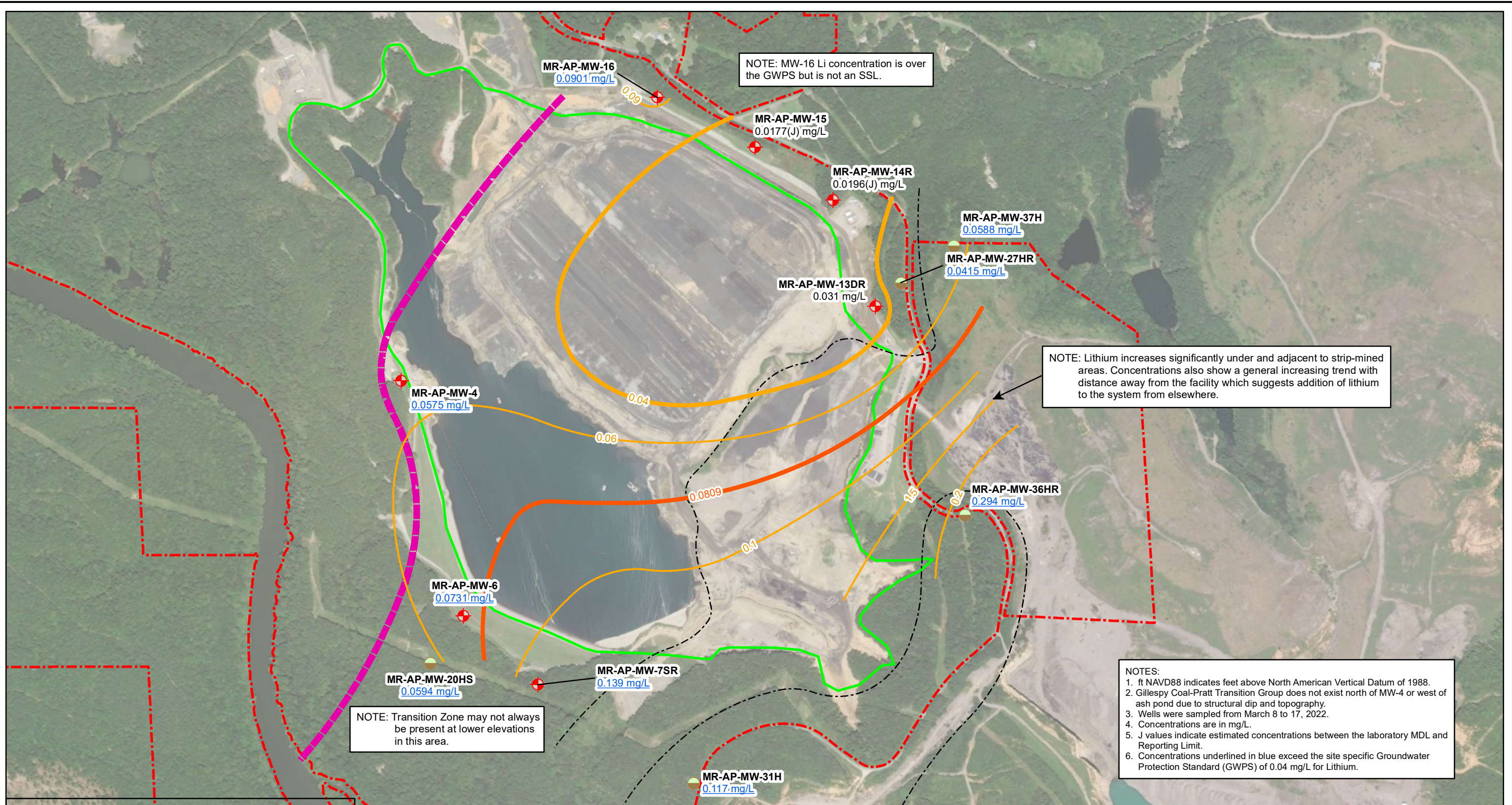
DRAWN BY KWR

CHECKED BY GBD

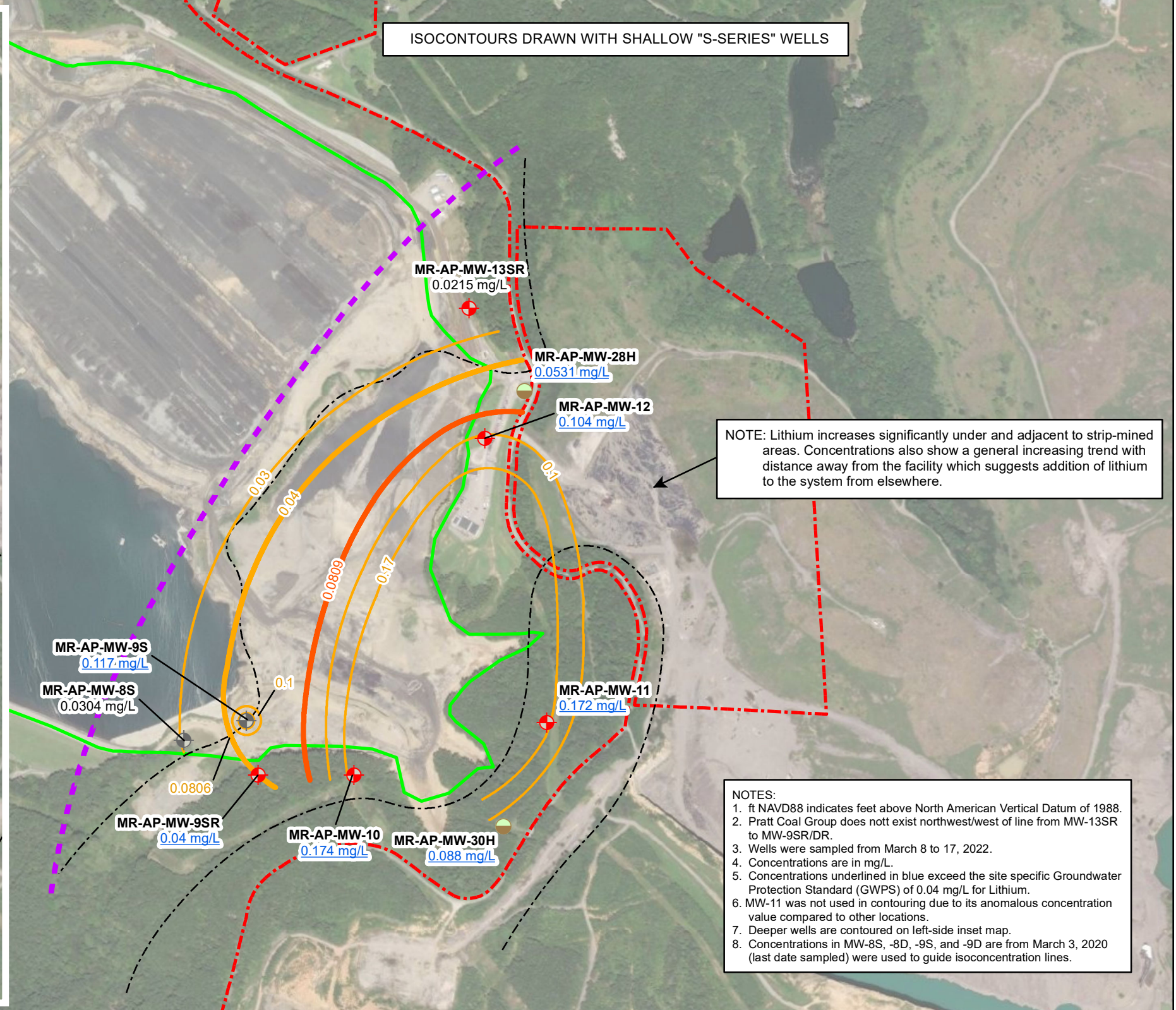
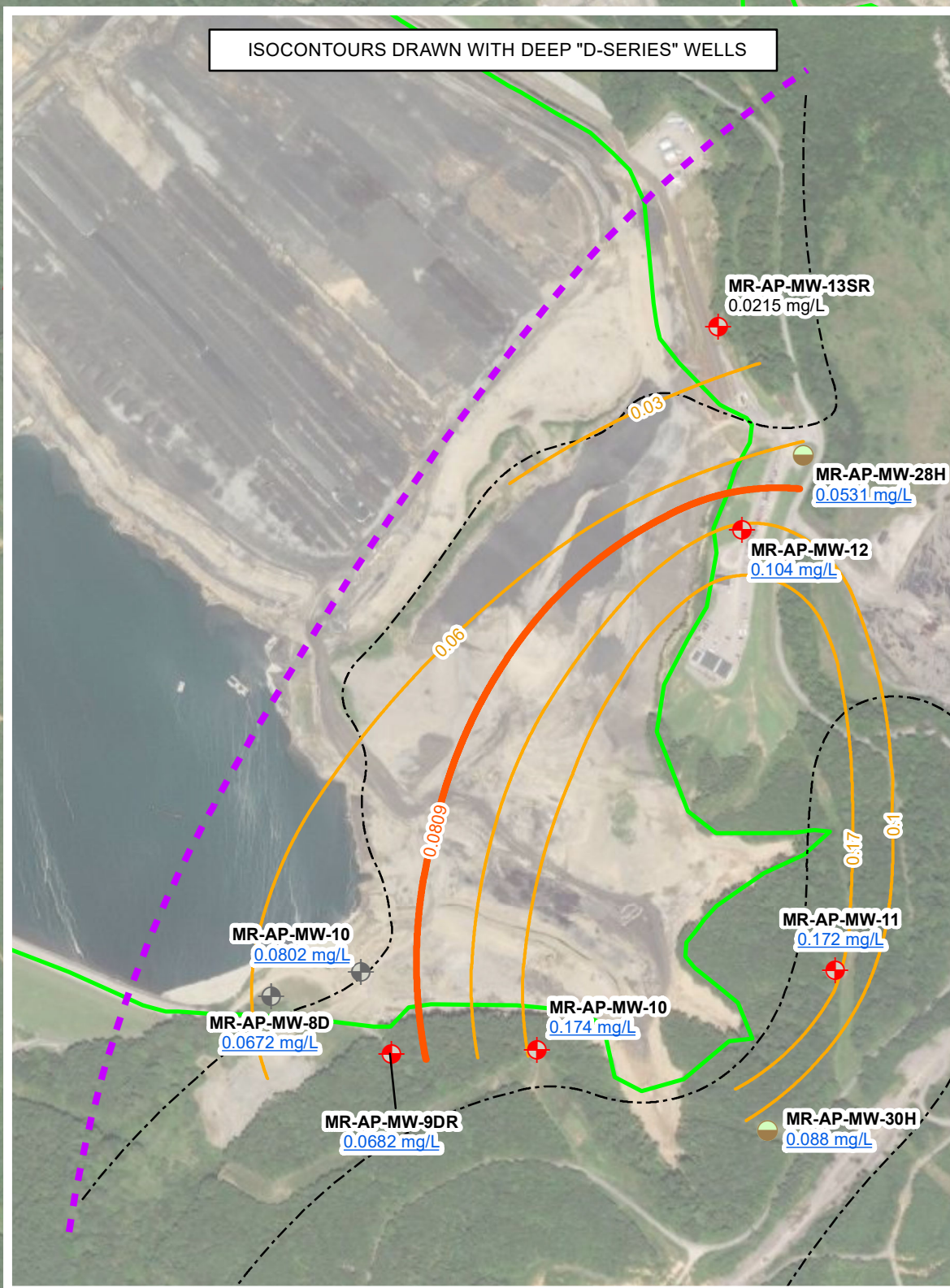
DRAWING TITLE  
**LITHIUM ISOCONCENTRATION MAP  
GILLESPIY LOWER SANDSTONE UNIT(S)  
MARCH 2022  
PLANT MILLER ASH POND**

FIGURE NO  
**FIGURE 8D**





<b>Legend</b> Downgradient Monitoring Well Horizontal Delineation Well Lithium GWPS Background Contour (0.0809 mg/L) <b>MR-AP-MW-4</b> Well ID 0.0575 Lithium Concentration (mg/L)	Lithium GWPS (RSL) Contour (0.04 mg/L) Lithium Contour (mg/L) Extent of Gillespy Coal-Pratt Transition Group Extent of Strip Mining Ash Pond Boundary Property Boundary (Approximate)	  0 500 1,000 2,000 Feet	SCALE 1:9000	DRAWING TITLE <b>LITHIUM ISOCONCENTRATION MAP          GILLESPY COAL - PRATT TRANSITION ZONE          MARCH 2022          PLANT MILLER ASH POND</b>
			DATE 5/23/2022	
			DRAWN BY KWR	
			CHECKED BY GBD	
			FIGURE NO <b>FIGURE 8E</b>	Southern Company

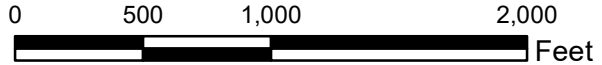


- NOTES:
1. ft NAVD88 indicates feet above North American Vertical Datum of 1988.
  2. Pratt Coal Group does not exist northwest/west of line from MW-13SR to MW-9SR/DR.
  3. Wells were sampled from March 8 to 17, 2022.
  4. Concentrations are in mg/L.
  5. Concentrations underlined in blue exceed the site specific Groundwater Protection Standard (GWPS) of 0.04 mg/L for Lithium.
  6. MW-11 was not used in contouring due to its anomalous concentration value compared to other locations.
  7. Deeper wells are contoured on left-side inset map.
  8. Concentrations in MW-8S, -8D, -9S, and -9D are from March 3, 2020 (last date sampled) were used to guide isoconcentration lines.

**Legend**

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

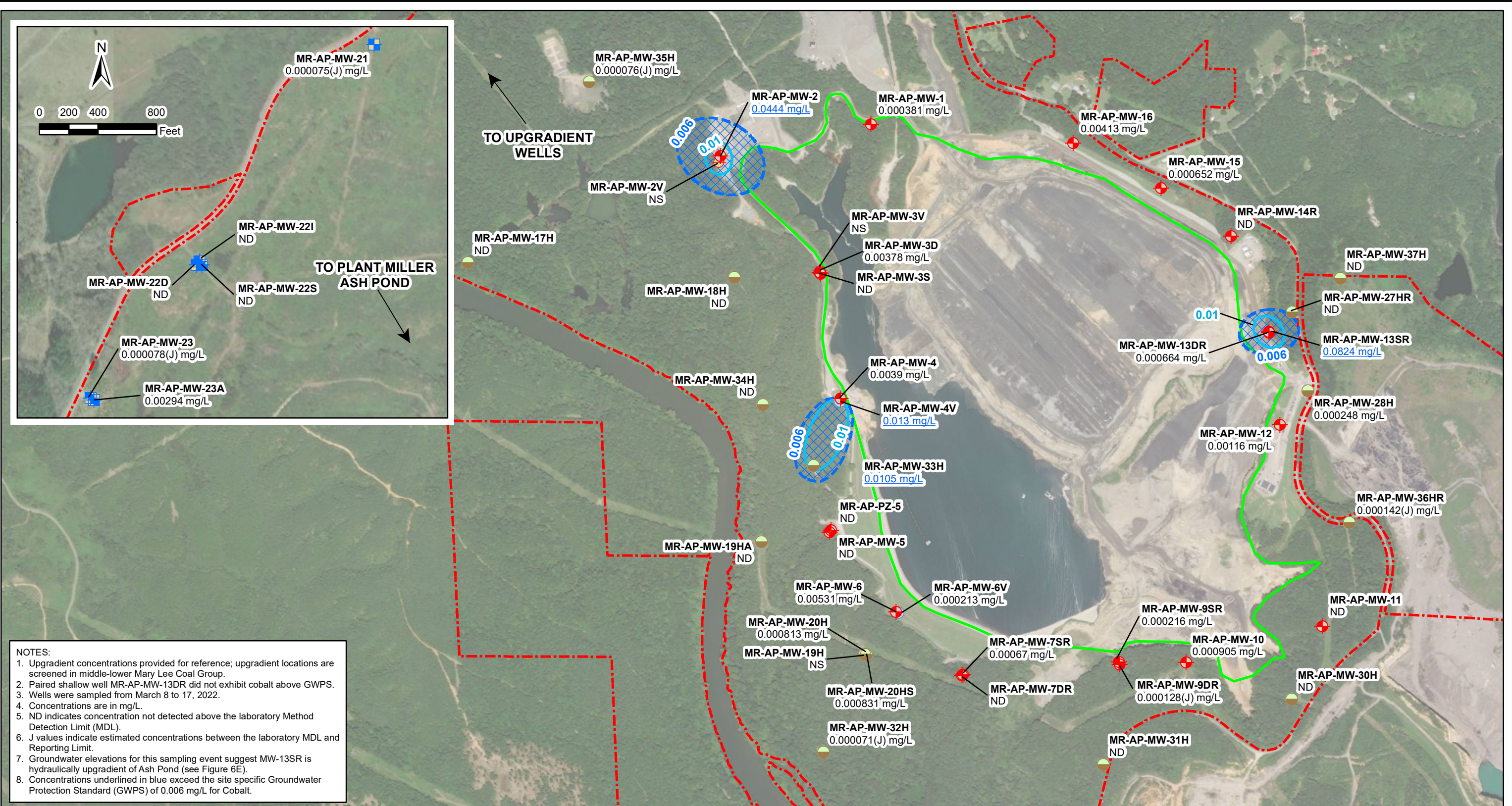
MR-AP-MW-13SR Well ID  
0.0215 Lithium Concentration (mg/L)



SCALE	1:9000
DATE	5/23/2022
DRAWN BY	KWR
CHECKED BY	GBD

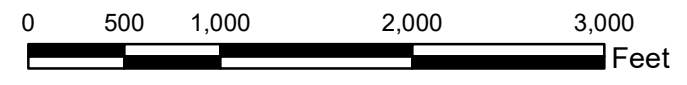
DRAWING TITLE  
**LITHIUM ISOCONCENTRATION MAP  
PRATT COAL GROUP (GENERALIZED)  
MARCH 2022  
PLANT MILLER ASH POND**

FIGURE NO  
**FIGURE 8F**



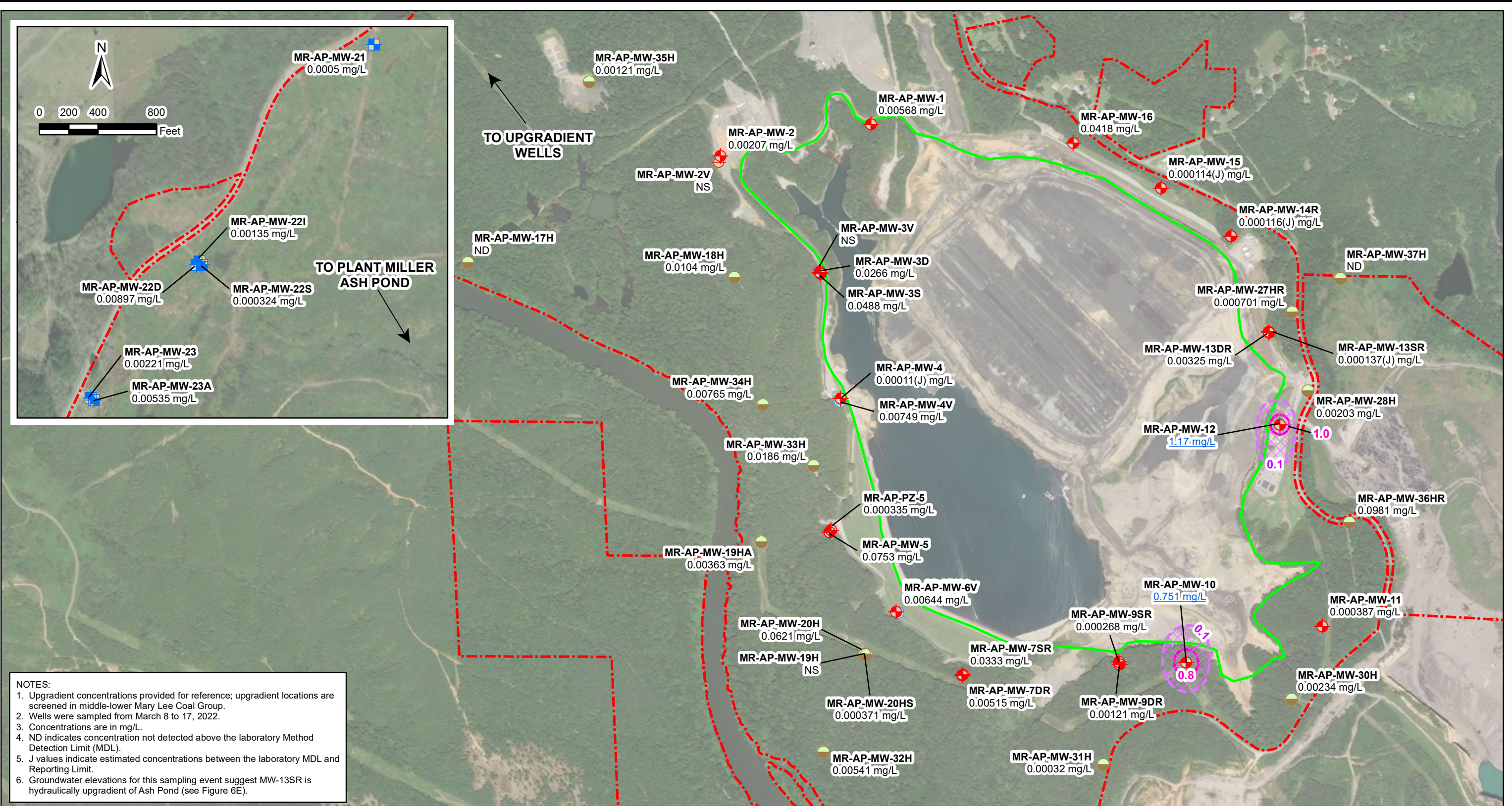
- NOTES:**
1. Upgradient concentrations provided for reference; upgradient locations are screened in middle-lower Mary Lee Coal Group.
  2. Paired shallow well MR-AP-MW-13DR did not exhibit cobalt above GWPS.
  3. Wells were sampled from March 8 to 17, 2022.
  4. Concentrations are in mg/L.
  5. ND indicates 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			
	Downgradient Monitoring Well		Ash Pond Boundary
	Upgradient Monitoring Well		Property Boundary (Approximate)
	Horizontal Delineation Well		Cobalt GWPS (0.006 mg/L) and Area of GWPS Exceedance
	Vertical Delineation Well		Property Boundary (Approximate)
	Piezometer	<b>MR-AP-MW-4</b>	Well ID
		0.0039	Cobalt Concentration (mg/L)



SCALE	1:12000
DATE	5/23/2022
DRAWN BY	KWR
CHECKED BY	GBD

DRAWING TITLE	
<b>COBALT ISOCONCENTRATION MAP MARCH 2022 PLANT MILLER ASH POND</b>	
FIGURE NO	<b>FIGURE 9</b>
Southern Company	



**NOTES:**

1. Upgradient concentrations provided for reference; upgradient locations are screened in middle-lower Mary Lee Coal Group.
2. Wells were sampled from March 8 to 17, 2022.
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)

MR-AP-MW-1 Well ID  
0.00568 Molybdenum Concentration (mg/L)

SCALE 1:12000

DATE 5/23/2022

DRAWN BY KWR

CHECKED BY GBD

0 500 1,000 2,000 Feet

DRAWING TITLE

**MOLYBDENUM ISOCONCENTRATION MAP**  
**MARCH 2022**  
**PLANT MILLER ASH POND**

FIGURE NO

**FIGURE 10**

Southern Company

# Appendix A



**APPENDIX A - ANALYTICAL DATA SUMMARY**  
**Ash Pond (07/19/2016 - 05/19/2022)**  
**APC Plant Miller**  
**Jefferson County Alabama**

Analyte	Units	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
<b>Appendix III</b>								
Boron	mg/L	0.0619 J	0.0879 J	0.101	0.0973 J	0.0976 J	0.0871 J	0.0894 J
Calcium	mg/L	60.1	63.5	52.4	51.7	55.5	57.1	54.8
Chloride	mg/L	9.18	9.75	14.6	14.4	14.4	6.93	11.1
Fluoride	mg/L	0.169	0.212	0.285	0.283	0.217	0.2	0.127
pH_Field	SU	7.26	7.42	7.7	7.68	7.73	7.83	7.72
Sulfate	mg/L	116	108	111	135	136	139	137
TDS	mg/L	397	446	496	534	499	434	460
<b>Appendix IV</b>								
Antimony	mg/L	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.00106 J	0.00129 J	0.00472 J	0.00366 J	0.00292	0.00104	0.00137
Barium	mg/L	0.0629	0.314	0.469	0.381	0.25	0.148	0.14
Beryllium	mg/L	<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	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	0.000708 J	0.000623 J	0.000214 J
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	0.000291	0.000221	7.53e-005 J
Combined Radium	pCi/L	0.24 U	0.908	0.202 U	0.683	0.683 U	0.833 U	0.7 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	0.000323	0.000539	<6.8e-005
Lithium	mg/L	0.0484	0.0493	0.0252	0.0379	0.045	0.0657	0.054
Mercury	mg/L	<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	0.00116	0.000332
Selenium	mg/L	<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	<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 Quantita



Analyte	Units	GS-AP-MW-B																		
		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	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	02/16/2022
<b>Appendix III</b>																				
Boron	mg/L	0.0239 J	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	--	<0.02	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	6.85	11.7	10.8	5.86	9.76	5.28	6.89	3.58	3.38	--	4.25	3.21	4.43	7.24	4.51	5.19	4.35	4.47	4.42
Chloride	mg/L	3.21	2.95	3.03	3.21	3	3.3	3.8	3.5	3.6	--	3.3	3.3	3.69	3.21	4.35	3.22	3.85	4.04	4.42
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	0.08 J	0.1	0.09 J	0.143	0.128	0.108	0.125	0.114	0.0924 J	0.0616 J
pH_Field	SU	5.84	5.99	5.94	5.84	5.9	5.67	5.79	5.71	5.7	5.78	5.84	5.75	5.76	5.27	5.81	5.75	5.69	5.02	5.8
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	--	2.5 J	2.4 J	4.53	6.61	4.86	4.69	4.83	3.77	4.68
TDS	mg/L	113	128	121	101	108	91	89.3	84	91.3	--	94.7	76.7	92	109	90.7	94	98.7	101	90.7
<b>Appendix IV</b>																				
Antimony	mg/L	<0.0006	<0.0006	<0.0006	0.00067 J	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.00214 J	0.00112 J	<0.001	<0.001	0.00111 J	0.00109 J	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000228	0.00039	0.000208
Barium	mg/L	0.0274	0.0811	0.0576	0.0241	0.0747	0.0183	0.04	0.00769 J	--	0.00762 J	0.00701 J	0.0094 J	0.00459 J	0.0434	0.00507 J	0.026	0.0068	0.00805	0.00853
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	0.00266 J	<0.002	<0.002	<0.002	0.00322 J	<0.002	0.00227 J	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000389 J	0.000579 J	0.000396 J
Cobalt	mg/L	0.0026 J	0.00362 J	0.00305 J	<0.002	0.00308 J	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	0.00234 J	<0.002	<0.002	0.000384	0.000586	0.000548
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	--	0.497	-0.601 U	0.2 U	0.733	0.753	0.465 U	1.25	0.223 U	0.77 U	0.561 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	8.09e-005 J	0.000149 J	<6.8e-005
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00796 J	0.00832 J	0.00826 J
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	0.000118 J
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:  
 1. mg/L - Milligrams per Liter  
 2. pCi/L - picocuries per Liter  
 3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita





Analyte	Units	MR-AP-MW-22S					MR-AP-MW-22I					MR-AP-MW-22D					MR-AP-MW-23					
		10/14/2020	04/20/2021	06/16/2021	09/15/2021	03/16/2022	10/20/2020	04/20/2021	06/16/2021	09/15/2021	03/16/2022	10/26/2020	04/27/2021	06/16/2021	09/14/2021	03/17/2022	03/09/2020	04/09/2020	10/14/2020	05/05/2021	09/15/2021	03/15/2022
		<b>Appendix III</b>																				
Boron	mg/L	0.134	0.0628 J	0.0677 J	0.062 J	0.0672 J	0.173	0.135	0.134	0.122	0.121	0.149	0.17	0.171	0.153	0.153	0.756	0.799	0.762	0.765	0.736	0.709
Calcium	mg/L	46.6	79	97.6	97.9	114	8.61	3.66	3.4	2.74	2.73	49.7	58.1	64.5	64.2	71.2	128	119	123	134	128	117
Chloride	mg/L	163	91.2	128	112	127	247	79.8	85.8	62.1	47.3	2140	2190	2390	2650	2660	2430	2440	2440	2670	2940	2450
Fluoride	mg/L	0.337	0.158	0.231	0.208	0.145	0.311	0.246	0.283	0.28	0.222	0.142	0.205	0.255	0.156	0.116 J	0.419	0.389	0.422	0.409	0.433	0.403
pH_Field	SU	6.84	6.36	6.69	6.88	6.92	7.68	7.81	7.7	8.06	7.94	7.78	7.88	7.87	8.29	7.96	7.6	7.65	7.66	7.7	7.78	7.61
Sulfate	mg/L	184	145	147	146	170	36.4	31.4	17.1	18.4	24.8	7.91	56.7	56.8	30.9	66.2	0.908 J	2.01	1.1	1.38	7.45	0.862 J
TDS	mg/L	730	590	612	662	648	780	474	455	423	391	4010	3900	4030	4200	4600	4720	4670	4840	4620	4630	4680
<b>Appendix IV</b>																						
Antimony	mg/L	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.0008	<0.000507	<0.000508	0.000716 J	0.00114	<0.0008	0.00141 J	<0.0008	<0.000507	0.00056 J	0.000896 J
Arsenic	mg/L	0.00129 J	0.000373	0.000684	0.000381	0.000369	0.00319 J	0.00111	0.000552	0.000474	0.000328	0.00188 J	0.00645	0.0047	0.00273	0.00354	<0.001	<0.001	<0.001	0.000426	0.000525	0.000383
Barium	mg/L	0.122	0.0638	0.074	0.0635	0.0508	0.198	0.0624	0.0602	0.0489	0.0367	4.33	2.59	2.96	4.49	2.95	11	11.6	12.4	11.9	12.2	11.7
Beryllium	mg/L	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<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	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.000203	0.000281 J	0.00021 J	0.000269 J	<0.002	<0.000203	0.00022 J	0.000268 J	0.0003 J	<0.002	0.000308 J	0.000678 J	0.000745 J	0.000659 J	<0.002	<0.002	<0.002	0.0011	0.000515 J	<0.000203
Cobalt	mg/L	<0.002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.002	<0.002	<0.002	0.000185 J	<6.8e-005	7.81e-005 J
Combined Radium	pCi/L	0.484	0.41 U	0.73 U	0.662 U	0.26 U	0.679	0.304 U	0.362 U	0.716 U	1.01 U	2.3	1.97	2.99	2.3	1.17	4.4	--	4.78	6.25	7.07	6.96
Lead	mg/L	<0.001	<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	<0.001	<6.8e-005	7.08e-005 J	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	0.00019 J	<6.8e-005	<6.8e-005
Lithium	mg/L	0.172	0.0694	0.0722	0.071	0.0603	0.141	0.0728	0.0738	0.0621	0.0469	0.344	0.406	0.342	0.46	0.369	1.18	1.05	1.2	1.13	1.16	0.911
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	0.000515	0.00089	0.0004	0.000306	0.00251 J	0.00172	0.000887	0.00102	0.00135	0.00248 J	0.009	0.0127	0.00811	0.00897	0.005 J	0.00449 J	0.00351 J	0.00321	0.00282	0.00221
Selenium	mg/L	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<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	<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 Quantita



Analyte	Units	GS-AP-MW-17V								MR-AP-MW-23A				
		02/20/2019	09/24/2019	03/25/2020	09/23/2020	02/02/2021	08/02/2021	02/14/2022	05/11/2022	10/14/2020	04/27/2021	06/16/2021	09/15/2021	03/16/2022
<b>Appendix III</b>														
Boron	mg/L	0.0337 J	0.0532 J	0.0482 J	0.0478 J	0.0396 J	0.0368 J	0.0386 J	--	0.706	0.694	0.697	0.673	0.687
Calcium	mg/L	30.6	29.7	31.1	29.3	31.8	33	30.1	--	118	125	138	129	128
Chloride	mg/L	3.56	3.69	3.72	3.74	3.49	3.12	3.26	--	2510	2510	2740	2640	2520
Fluoride	mg/L	0.239	0.245	0.243	0.278	0.244	0.276	0.237	--	0.429	0.363	0.412	0.436	0.394
pH_Field	SU	8.03	7.65	7.63	7.53	7.58	7.65	7.43	--	7.46	7.45	7.29	7.53	7.48
Sulfate	mg/L	15.2	11.8	9.69	11.1	8.81	10.2	9.09	--	5.51	27.9	26.1	26.5	33.5
TDS	mg/L	346	365	364	368	356	333	365	--	4620	4610	4720	4800	4520
<b>Appendix IV</b>														
Antimony	mg/L	0.00115 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	--	<0.0008	0.000758 J	<0.000508	0.000571 J	0.000603 J
Arsenic	mg/L	0.0011 J	0.00149 J	<0.001	<0.001	0.000243	0.000135 J	0.000469	--	0.0014 J	0.00164	0.0019	0.00416	0.00449
Barium	mg/L	0.191	0.208	0.314	0.299	0.308	0.353	0.315	--	9.8	6.89	6.51	6.53	6.68
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	--	<0.0006	<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	--	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	0.00405 J	<0.002	<0.002	0.000313 J	0.000323 J	0.000205 J	--	<0.002	<0.000203	0.00065 J	0.0004 J	<0.000203
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005	--	<0.002	0.000718	0.000678	0.000421	0.00294
Combined Radium	pCi/L	0.398 U	0.373 U	0.0656 U	0.542 U	0.448 U	0.738 U	7.76	0.553 U	4.46	1.21	3.11	2.48	1 U
Lead	mg/L	0.00189 J	<0.001	<0.001	<0.001	<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	0.0671	0.0809	0.0646	0.0574	0.0585	0.056	0.0499	--	1.17	1.05	0.873	1.04	0.815
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.00577 J	0.00906 J	0.00508 J	0.00664 J	0.00252	0.00206	0.00276	--	<0.002	0.00575	0.00481	0.00349	0.00463
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	--	<0.002	<0.000507	<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	--	<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 Quantita



Analyte	Units	MR-AP-MW-1																				
		07/25/2016	09/26/2016	11/02/2016	01/11/2017	02/13/2017	03/30/2017	04/03/2017	05/15/2017	06/14/2017	09/19/2017	01/29/2018	05/09/2018	10/09/2018	05/01/2019	08/27/2019	03/09/2020	10/19/2020	04/20/2021	09/08/2021	03/15/2022	
<b>Appendix III</b>																						
Boron	mg/L	0.0978 J	0.0625 J	0.067 J	0.0588 J	0.0561 J	--	0.0631 J	0.0636 J	0.0603 J	0.0559 J	--	0.0437 J	0.0559 J	<0.0609	0.0869 J	0.0747 J	0.0512 J	0.0653 J	0.0505 J	0.0604 J	
Calcium	mg/L	153	122	114	112	132	--	168	104	122	98.6	--	141	94.1	47.9	165	126	32.6	36.2	78.8	178	
Chloride	mg/L	14.1	13.3	12.1	11.6	14	--	11	13	13	13	--	11	12	15	8.75	19.6	16	12.9	10.8	10.4	
Fluoride	mg/L	0.134 J	0.061 J	0.024 J	<0.01	0.13	--	0.15	0.14	0.15	0.17	0.15	0.17	0.19	0.143	0.159	0.179	0.16	0.165	0.188	0.142	
pH_Field	SU	7.52	8.96	8.51	8.5	8.63	8.67	7.63	8.67	8.39	8.78	8.84	8.49	9.04	11.01	7.48	11.95	11.44	9.55	9.19	8.71	
Sulfate	mg/L	585	480	462	515	--	470	560	410	450	430	--	460	420	309	639	341	233	305	472	512	
TDS	mg/L	1060	852	888	920	848	--	1000	870	910	824	--	1020	830	694	1120	815	530	630	858	897	
<b>Appendix IV</b>																						
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	
Arsenic	mg/L	0.0046 J	0.00317 J	0.00321 J	0.00286 J	0.0024 J	--	0.00232 J	0.00183 J	0.00151 J	--	0.00284 J	0.00109 J	0.00174 J	0.00229 J	0.00211 J	0.0058	0.00351 J	0.00225	0.00219	0.0021	
Barium	mg/L	0.0656	0.041	0.0578	0.0603	0.0946	--	0.0996	0.0753	0.0821	--	0.0814	0.116	0.0933	0.0672	0.0555	0.0285	0.0295	0.0454	0.101	0.12	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	--	0.000372 J	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	0.00711 J	0.0166	0.00481 J	0.00431 J	0.0061 J	--	0.00215 J	0.0123	0.00558 J	--	0.00287 J	<0.002	0.00248 J	<0.002	0.00336 J	0.0105	0.00527 J	0.00235	0.00143	<0.000203	
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000113 J	7.8e-005 J	0.000867	
Combined Radium	pCi/L	--	0.499	0.637 U	0.475 U	0.0464 U	--	0.335 U	0.409 U	0.261 U	--	0.693	0.413 U	0.338 U	0.312 U	0.696	0.726	-0.37 U	0.44 U	0.396 U	0.754 U	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.187	0.134	0.137	0.137	0.187	--	0.225	0.15	0.165	--	0.124	0.166	0.136	0.104	0.264	0.123	0.09	0.154	0.179	0.194	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	0.0108	0.0105	0.0107	0.0101	0.00994 J	--	0.00788 J	0.00866 J	0.00779 J	--	0.0109	0.00618 J	0.00745 J	0.00932 J	0.00563 J	0.0142	0.0116	0.0072	0.00649	0.00505	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<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 Quantita



Analyte	Units	MR-AP-MW-2																		
		07/25/2016	09/28/2016	11/01/2016	01/11/2017	02/14/2017	04/04/2017	05/16/2017	06/14/2017	09/20/2017	01/30/2018	05/09/2018	10/09/2018	05/01/2019	08/27/2019	03/03/2020	10/21/2020	04/26/2021	09/14/2021	03/16/2022
<b>Appendix III</b>																				
Boron	mg/L	0.0922 J	0.126	0.0959 J	0.0976 J	0.147	0.121	0.167	0.159	0.148	--	0.145	0.15	0.24	0.192	0.167	0.316	0.173	0.188	0.167
Calcium	mg/L	209	240	213	218	244	234	241	241	235	--	246	272	272	251	278	212	252	226	240
Chloride	mg/L	5.13	4	4.99	6.72	7.4	8.3	6.6	6	8.3	--	8.7	8	5.04	7.95	8.59	9.47	9.31	5.88	6.88
Fluoride	mg/L	0.094 J	0.035 J	<0.01	<0.01	0.05 J	0.07 J	0.07 J	0.06 J	0.12	0.1	0.13	0.1	0.108	0.19	0.262	0.236	0.406	0.24	0.268
pH_Field	SU	6.03	5.96	6.02	6.11	6.16	6.1	6.12	6.11	6.16	6.17	5.92	6.21	6.25	6.25	6.27	6.29	6.33	6.58	6.14
Sulfate	mg/L	1340	1680	1430	1550	1500	1700	1500	1700	1400	--	1300	1500	1580	1570	1690	1360	1580	1690	1630
TDS	mg/L	2040	2420	2180	2320	2380	2360	2400	2520	2500	--	2040	2460	2370	2470	2520	2190	2560	2400	2420
<b>Appendix IV</b>																				
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.00267 J	0.00163 J	0.00197 J	0.00168 J	0.00175 J	0.00148 J	0.00156 J	0.00154 J	--	0.0013 J	0.00121 J	0.00156 J	0.0039 J	0.00194 J	0.00238 J	0.00346 J	0.00346	0.0043	0.00394
Barium	mg/L	0.0266	0.0246	0.0186	0.0157	0.0183	0.016	0.0162	0.016	--	0.016	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	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	0.000219 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.00021 J	0.000513 J	<0.000203
Cobalt	mg/L	0.103	0.108	0.0813	0.0669	0.084	0.0829	0.0815	0.077	--	0.0499	0.0534	0.0525	0.0642	0.0498	0.0471	0.0368	0.0358	0.0515	0.0475
Combined Radium	pCi/L	0.817	0.336 U	0.00962 U	0.844	0.444 U	0.379 U	0.37 U	0.875	--	1.11	0.301 U	1.04	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	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.163	0.197	0.172	0.19	0.292	0.292	0.25	0.237	--	0.222	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	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.00458 J	0.0018	0.0021	0.00213
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	0.000214 J	<0.0002	<0.0002	0.000219 J	0.000202 J	<0.0002	0.000266 J	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:  
 1. mg/L - Milligrams per Liter  
 2. pCi/L - picocuries per Liter  
 3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita



Analyte	Units	MR-AP-MW-35																			
		07/19/2016	09/26/2016	10/31/2016	01/09/2017	02/13/2017	03/29/2017	04/03/2017	05/16/2017	06/12/2017	09/20/2017	01/29/2018	05/10/2018	10/09/2018	04/22/2019	08/27/2019	03/03/2020	10/13/2020	05/05/2021	09/07/2021	03/16/2022
<b>Appendix III</b>																					
Boron	mg/L	0.195	0.179	0.19	0.196	0.187	--	0.192	0.178	0.181	0.188	--	0.183	0.202	0.183 J	0.209	0.217	0.271	0.281	0.276	0.276
Calcium	mg/L	5.63	4.28	4.04	4.15	4.38	--	4.45	4.23	4.14	3.88	--	3.79	3.78	16.8	9.68	9.94	6.81	7.04	6.69	5.25
Chloride	mg/L	25	23.6	24.4	24.3	28	--	31	31	32	30	--	34	32	242	145	177	96.3	76.5	78.6	79.4
Fluoride	mg/L	0.217 J	0.192 J	0.157 J	0.115 J	0.27	--	0.25	0.24	0.26	0.26	0.31	0.31	0.33	0.335	0.294	0.286	0.311	0.291	0.361	0.309
pH_Field	SU	8.95	9.13	9.04	9.62	9.43	9.04	9.18	9.11	9.54	9.69	9.76	9.44	9.34	9.17	9.23	9.4	9.04	9.1	8.84	9.05
Sulfate	mg/L	237	105	94.9	131	--	160	180	160	160	140	--	120	130	249	248	298	236	224	243	227
TDS	mg/L	704	594	572	608	584	--	606	608	644	592	--	606	536	930	837	953	793	748	706	698
<b>Appendix IV</b>																					
Antimony	mg/L	0.000787 J	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	0.00126 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.00172 J	0.00246 J	0.00224 J	0.00251 J	0.00179 J	--	0.00128 J	0.00124 J	0.0018 J	--	0.00264 J	0.00262 J	0.00206 J	0.00275 J	0.00222 J	0.00199 J	<0.001	0.000735	0.000878	0.000674
Barium	mg/L	0.083	0.0616	0.073	0.0791	0.101	--	0.109	0.108	0.0919	--	0.118	0.133	0.121	0.447	0.395	0.347	0.22	0.149	0.17	0.149
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000646 J	0.000417 J
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005
Combined Radium	pCi/L	-0.019 U	0.488 U	0.147 U	0.288 U	0.226 U	--	-0.154 U	0.303 U	0.645	--	0.627	-0.0676 U	0.571	0.678	1.17	0.821	-0.0678 U	0.195 U	0.0456 U	0.207 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005
Lithium	mg/L	0.186	0.149	0.161	0.156	0.244	--	0.25	0.199	0.188	--	0.164	0.183	0.175	0.243	0.246	0.294	0.347	0.358	0.347	0.271
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	0.000318 J	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.0307	0.0341	0.028	0.0303	0.0295	--	0.0261	0.0281	0.0298	--	0.037	0.0331	0.0377	0.068	0.0557	0.0648	0.0517	0.0449	0.0511	0.0494
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<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 Quantita



Analyte	Units	MR-AP-MW-3D																			
		07/19/2016	09/26/2016	10/31/2016	01/09/2017	02/13/2017	03/29/2017	04/03/2017	05/16/2017	06/12/2017	09/20/2017	01/29/2018	05/10/2018	10/09/2018	04/29/2019	08/27/2019	03/03/2020	10/13/2020	05/05/2021	09/07/2021	03/16/2022
<b>Appendix III</b>																					
Boron	mg/L	0.527	0.54	0.586	0.584	0.567	--	0.527	0.477	0.491	0.505	--	0.425	0.471	0.407	0.443	0.422	0.492	0.451	0.499	0.431
Calcium	mg/L	296	269	266	282	268	--	282	234	232	211	--	219	242	186	189	170	162	153	158	116
Chloride	mg/L	52.7	50.6	52.6	51.4	56	--	55	55	57	43	--	37	41	40.7	34.7	29.1	25.9	21	21.2	15
Fluoride	mg/L	0.268 J	0.213 J	0.158 J	0.109 J	0.29	--	0.28	0.3	0.29	0.35	0.35	0.37	0.39	0.343	0.361	0.397	0.362	0.351	0.433	0.388
pH_Field	SU	6.72	6.76	6.72	6.73	6.73	6.68	6.73	6.71	6.79	6.8	6.82	6.79	6.8	6.81	6.84	6.85	6.9	6.9	6.86	7.04
Sulfate	mg/L	900	814	800	833	--	760	860	630	710	590	--	540	700	484	529	488	473	501	513	352
TDS	mg/L	1530	1480	1430	1500	1380	--	1370	1300	1300	1180	--	1060	1220	956	960	840	937	883	924	698
<b>Appendix IV</b>																					
Antimony	mg/L	0.000725 J	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	0.00118 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.0105	0.0106	0.0111	0.0119	0.0122	--	0.0115	0.0103	0.0108	--	0.0119	0.0111	0.01	0.0108	0.0111	0.0118	0.015	0.0116	0.011	0.00936
Barium	mg/L	0.032	0.0222	0.0235	0.0229	0.0259	--	0.0244	0.0229	0.0246	--	0.0282	0.0243	0.0234	0.0404	0.0334	0.0304	0.0293	0.0247	0.0259	0.0243
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.00203	0.000269 J	0.000272 J
Cobalt	mg/L	0.00796 J	0.00839 J	0.00889 J	0.00787 J	0.00873 J	--	0.00861 J	0.00736 J	0.00684 J	--	0.00548 J	0.00529 J	0.00683	0.00555	0.00562	0.00456 J	0.00555	0.00451	0.00455	0.00345
Combined Radium	pCi/L	0.251 U	0.638	0.521 U	0.744	-0.0115 U	--	0.0879 U	0.137 U	0.589	--	0.634	0.147 U	0.693	0.0878 U	0.491 U	0.258 U	-0.209 U	1.06 U	0.332 U	0.257 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	8.4e-005 J	<6.8e-005
Lithium	mg/L	0.128	0.12	0.128	0.124	0.167	--	0.163	0.12	0.119	--	0.11	0.112	0.123	0.104	0.115	0.11	0.121	0.116	0.12	0.0902
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.0216	0.0226	0.0209	0.0219	0.0235	--	0.0238	0.0232	0.0226	--	0.0236	0.0219	0.0228	0.0265	0.026	0.024	0.0265	0.0243	0.0254	0.0266
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:  
1. mg/L - Milligrams per Liter  
2. pCi/L - picocuries per Liter  
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita



Analyte	Units	MR-AP-MW-4																				
		07/19/2016	09/27/2016	11/01/2016	01/09/2017	02/13/2017	03/30/2017	04/04/2017	05/16/2017	06/12/2017	09/20/2017	01/29/2018	05/09/2018	10/08/2018	04/29/2019	08/27/2019	03/04/2020	10/14/2020	04/26/2021	09/01/2021	03/15/2022	
<b>Appendix III</b>																						
Boron	mg/L	0.496	0.514	0.571	0.572	0.565	--	0.536	0.482	0.478	0.506	--	0.433	0.503	0.45	0.495	0.431	0.46	0.412	0.46	0.423	
Calcium	mg/L	333	320	305	329	291	--	287	279	258	249	--	212	245	259	252	210	194	193	213	177	
Chloride	mg/L	40.8	47.1	49.7	48.8	46	--	50	50	52	45	--	39	41	40.8	42.3	40.1	30.8	24.8	24.6	19	
Fluoride	mg/L	0.252 J	0.209 J	0.163 J	0.13 J	0.28	--	0.27	0.28	0.27	0.31	0.28	0.28	0.32	0.228	0.237	0.221	0.251	0.204	0.281	0.154	
pH_Field	SU	5.82	5.85	5.79	5.83	5.78	5.73	5.7	5.72	5.83	5.86	5.86	5.85	5.86	5.91	6.04	5.96	5.93	5.75	5.76	6.27	
Sulfate	mg/L	981	958	933	896	--	930	870	780	790	710	--	600	650	770	670	604	527	554	637	475	
TDS	mg/L	1520	1540	1510	1510	1460	--	1270	1420	1380	1270	--	1040	1180	1150	1120	904	934	930	1050	800	
<b>Appendix IV</b>																						
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000368	0.000402	0.000139 J	
Barium	mg/L	0.0165	0.0139	0.0141	0.0144	0.0145	--	0.013	0.0121	0.0133	--	0.0137	0.0142	0.0119	0.0148	0.014	0.0137	0.0127	0.0115	0.0129	0.0135	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	
Cadmium	mg/L	0.000302 J	0.00021 J	0.000239 J	0.000248 J	0.00031 J	--	0.000241 J	0.000266 J	0.000272 J	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	7.3e-005 J	7.63e-005 J	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000203	0.000292 J	<0.000203	
Cobalt	mg/L	0.0427	0.0401	0.0374	0.0291	0.0368	--	0.0348	0.0379	0.0376	--	0.0171	0.0128	0.011	0.0201	0.0157	0.0119	0.0117	0.00667	0.00719	0.00404	
Combined Radium	pCi/L	0.621	0.529 U	0.142 U	0.54 U	0.764	--	-0.136 U	0.247 U	0.6	--	0.786	-0.00808 U	0.311 U	0.039 U	0.533	0.31 U	0.434 U	0.394 U	0.238 U	0.285 U	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.105	0.0988	0.104	0.102	0.136	--	0.134	0.1	0.0992	--	0.0852	0.0926	0.0877	0.0738	0.0741	0.0851	0.0651	0.0758	0.0716	0.0575	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	8.18e-005 J	7.03e-005 J	0.00011 J
Selenium	mg/L	<0.002	0.0023 J	<0.002	0.00278 J	0.00291 J	--	0.00343 J	0.003 J	0.00255 J	--	0.00273 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.00112	0.000772 J	0.00232	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	7.23e-005 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 Quantita



Analyte	Units	MR-AP-MW-5																		
		07/26/2016	09/28/2016	11/02/2016	01/10/2017	02/14/2017	04/03/2017	05/17/2017	06/12/2017	09/18/2017	01/31/2018	05/09/2018	10/08/2018	04/23/2019	08/28/2019	03/02/2020	10/21/2020	05/03/2021	09/08/2021	03/14/2022
<b>Appendix III</b>																				
Boron	mg/L	0.873	0.857	0.909	0.915	0.932	0.932	0.953	0.854	0.921	--	0.851	0.833	0.846	0.852	0.851	0.847	0.864	0.84	0.891
Calcium	mg/L	315	324	305	319	341	329	296	263	292	--	265	290	329	279	267	242	249	239	251
Chloride	mg/L	39.1	40.9	44.1	45.2	44	48	53	53	45	--	45	44	43.8	47.1	42.1	35.8	31.1	28.7	26.5
Fluoride	mg/L	0.296 J	0.224 J	0.164 J	0.114 J	0.31	0.3	0.29	0.29	0.37	0.35	0.36	0.43	0.428	0.385	0.382	0.427	0.388	0.433	0.37
pH_Field	SU	7.01	7.06	7.02	7.17	7.01	7.09	7	7.08	7.09	7.13	7.03	7.26	7.03	7.08	7.18	7.07	6.96	7.08	6.92
Sulfate	mg/L	1040	1020	1000	995	950	1100	930	940	830	--	790	820	898	818	859	669	752	757	810
TDS	mg/L	1630	1600	1640	1660	1600	1600	1630	1770	1530	--	1430	1300	1370	1370	1270	1190	1220	1210	1190
<b>Appendix IV</b>																				
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.0112	0.00955	0.0129	0.0135	0.0141	0.0141	0.0138	0.0118	--	0.0142	0.0114	0.0109	0.0117	0.0107	0.0122	0.0145	0.0111	0.0112	0.00979
Barium	mg/L	0.0158	0.0153	0.0154	0.015	0.017	0.0148	0.0149	0.0154	--	0.0162	0.0144	0.0149	0.0159	0.0158	0.0155	0.0173	0.015	0.0175	0.0162
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.00203	0.000274 J	<0.000203
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005
Combined Radium	pCi/L	0.205 U	0.403 U	0.483 U	0.687	0.5 U	0.637	0.421 U	0.353 U	--	0.38 U	0.515 U	0.921	1.12	0.81	0.407 U	-0.12 U	0.646 U	0.745 U	0.571 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.249	0.223	0.229	0.227	0.315	0.307	0.247	0.237	--	0.221	0.238	0.232	0.228	0.237	0.237	0.193	0.228	0.229	0.183
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	0.0004 J	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.0718	0.0638	0.0665	0.067	0.0735	0.0719	0.0733	0.0655	--	0.076	0.061	0.0686	0.0722	0.0709	0.0725	0.0877	0.0726	0.0733	0.0772
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:  
 1. mg/L - Milligrams per Liter  
 2. pCi/L - picocuries per Liter  
 3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita





Analyte	Units	MR-AP-PZ-5																			
		07/26/2016	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	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	03/14/2022
<b>Appendix III</b>																					
Boron	mg/L	0.434	0.454	0.46	0.471	0.473	--	0.424	0.462	0.418	0.428	--	0.406	0.42	0.372	0.319	0.328	0.328	0.271	0.271	0.249
Calcium	mg/L	52.8	246.4	61.3	47.7	54	--	28.7	26.7	26.3	20.2	--	13.8	11.1	11.9	14.2	10.3	7.36	9.36	7.63	7.74
Chloride	mg/L	30.5	31.1	30.2	29.8	33	--	32	37	34	36	--	31	32	24.9	28.5	29.5	23.9	17.9	36.7	30.7
Fluoride	mg/L	1.05	0.799	0.627	0.609	0.88	--	1.1	1	1.1	1.1	1	1.1	1.3	1.33	2.07	1.9	1.89	2.38	2.27	2.28
pH_Field	SU	7.88	7.8	7.86	7.9	7.86	8.06	8	7.99	7.91	8.04	8.23	8.6	8.31	8.18	8.26	8.34	8.16	8.32	8.34	8.47
Sulfate	mg/L	487	422	345	281	--	160	190	190	150	86	--	29	4.7 J	8.17	92	19.8	7.39	48.2	33.4	51.7
TDS	mg/L	1040	1000	920	812	832	--	710	718	724	616	--	486	464	478	734	594	594	762	690	748
<b>Appendix IV</b>																					
Antimony	mg/L	<0.0006	<0.0006	<0.0006	0.000701 J	0.00166 J	--	0.0008 J	0.000975 J	0.00107 J	--	<0.0006	0.00103 J	<0.0008	0.0009 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.00314 J	0.00629	0.00438 J	0.0039 J	0.00443 J	--	0.00206 J	0.00306 J	0.00203 J	--	0.00181 J	0.00291 J	0.00166 J	<0.001	0.00123 J	0.0013 J	0.00137 J	0.000109 J	0.000213	<8.1e-005
Barium	mg/L	0.11	0.0644	0.0781	0.0582	0.0612	--	0.166	0.11	0.127	--	0.144	0.131	0.111	0.176	0.25	0.165	0.166	0.248	0.236	0.265
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000203	0.000205 J	0.00024 J
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005
Combined Radium	pCi/L	0.331 U	0.556 U	0.217 U	0.432 U	0.279 U	--	0.195 U	0.569 U	0.48 U	--	0.851	0.171 U	0.44 U	0.267 U	0.355 U	0.213 U	0.0492 U	0.328 U	1.16 U	0.253 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005
Lithium	mg/L	0.228	0.158	0.179	0.166	0.243	--	0.216	0.177	0.161	--	0.133	0.139	0.137	0.134	0.164	0.147	0.127	0.177	0.17	0.143
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	0.000311 J	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.0122	0.00843 J	0.00605 J	0.0049 J	0.00784 J	--	0.00474 J	0.00447 J	0.003 J	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000438	0.000294	0.000335
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	0.0351
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005

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 Quantita



Analyte	Units	MR-AP-MW-6																			
		07/26/2016	09/28/2016	11/01/2016	01/09/2017	02/13/2017	03/29/2017	04/03/2017	05/16/2017	06/12/2017	09/18/2017	01/31/2018	05/09/2018	10/08/2018	04/23/2019	08/28/2019	03/03/2020	10/20/2020	04/28/2021	09/01/2021	03/16/2022
<b>Appendix III</b>																					
Boron	mg/L	0.835	0.807	0.838	0.848	0.869	--	0.881	0.81	0.832	0.864	--	0.878	0.905	0.862	0.906	0.895	0.947	0.923	0.921	0.887
Calcium	mg/L	135	141	137	140	141	--	141	145	144	144	--	150	150	167	148	155	148	172	160	160
Chloride	mg/L	24.8	24.9	26	25.1	28	--	29	30	31	29	--	32	33	33	32.5	35.3	34	36.7	34	33.2
Fluoride	mg/L	0.108 J	0.054 J	<0.01	<0.01	0.08 J	--	0.07 J	0.09 J	0.1	0.11	0.1	0.09 J	0.13	0.167	0.105	0.121	0.109	0.183	0.118	0.155
pH_Field	SU	5.98	6	6	6.04	6.04	6.01	6.02	5.92	5.99	6.04	6.05	6.01	6.1	6.06	5.98	6.11	6.15	6.1	6.28	6.07
Sulfate	mg/L	532	540	521	543	--	540	550	490	560	510	--	500	490	638	609	600	513	551	576	587
TDS	mg/L	868	884	862	918	896	--	852	924	928	908	--	908	882	882	903	926	876	937	957	894
<b>Appendix IV</b>																					
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000104 J	<6.8e-005	0.000115 J
Barium	mg/L	0.0266	0.0261	0.0265	0.0256	0.0286	--	0.0253	0.0268	0.026	--	0.0264	0.0242	0.023	0.0256	0.0269	0.0257	0.0252	0.0241	0.0251	0.0228
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000203	0.000287 J	0.000232 J
Cobalt	mg/L	0.0648	0.0673	0.0605	0.0504	0.065	--	0.0701	0.0725	0.0656	--	0.0564	0.0641	0.0616	0.0471	0.0283	0.0186	0.00675	0.00574	0.00477	0.00531
Combined Radium	pCi/L	0.459 U	0.0516 U	0.279 U	0.114 U	-0.0383 U	--	0.429 U	0.0754 U	0.506	--	0.433 U	0.106 U	0.612	0.356	0.268 U	0.177 U	0.321 U	0.156 U	0.132 U	0.199 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.0874	0.0812	0.0841	0.0842	0.101	--	0.102	0.0778	0.0784	--	0.0732	0.079	0.077	0.0822	0.0853	0.0877	0.0785	0.0865	0.0864	0.0714
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.00707 J	0.00623 J	0.0059 J	0.00476 J	0.00615 J	--	0.00623 J	0.00662 J	0.00613 J	--	0.00656 J	0.00525 J	0.00565 J	0.00479 J	0.00285 J	0.00282 J	<0.002	0.00135	0.00179	0.00148
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:  
1. mg/L - Milligrams per Liter  
2. pCi/L - picocuries per Liter  
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita



Analyte	Units	MR-AP-MW-7SR				MR-AP-MW-7DR				MR-AP-MW-9SR				MR-AP-MW-9DR				MR-AP-MW-13SR			
		10/20/2020	04/27/2021	09/01/2021	03/08/2022	10/20/2020	04/27/2021	09/01/2021	03/08/2022	10/15/2020	04/27/2021	09/01/2021	03/08/2022	10/15/2020	04/27/2021	09/01/2021	03/08/2022	10/20/2020	04/21/2021	09/07/2021	03/09/2022
<b>Appendix III</b>																					
Boron	mg/L	0.726	0.708	0.72	0.711	0.745	0.758	0.768	0.764	0.11	0.138	0.144	0.124	<0.03	<0.03	<0.03	<0.03	0.0541 J	0.0404 J	0.0429 J	0.0421 J
Calcium	mg/L	92.8	89.7	92.1	91.2	121	125	126	130	99.8	96.5	96.8	99.1	98.7	97.8	95.5	93	35.9	98.6	105	106
Chloride	mg/L	22.9	23.1	23.4	24.3	43.2	51	54.7	54.3	12.5	9.96	10.9	8.44	6.21	6.72	6.69	7.08	10.6	5.3	4.94	4.71
Fluoride	mg/L	0.222	0.242	0.245	0.223	0.122	0.126	0.16	<0.06	0.114	0.125	0.162	0.125	0.129	0.149	0.197	0.11 J	0.434	0.402	0.532	0.573
pH_Field	SU	6.54	6.56	6.57	6.61	6.78	6.8	6.77	6.81	6.42	6.36	6.33	6.28	6.67	6.68	6.66	6.75	6.28	6.19	5.98	6.05
Sulfate	mg/L	268	288	279	279	384	390	398	407	339	342	335	349	303	329	314	296	285	610	871	902
TDS	mg/L	588	624	646	598	818	798	838	798	686	634	658	614	654	646	636	594	604	1040	1310	1300
<b>Appendix IV</b>																					
Antimony	mg/L	<0.0008	<0.000507	<0.000508	<0.000508	<0.0008	<0.000507	<0.000508	<0.000508	<0.0008	<0.000507	<0.000508	<0.000508	<0.0008	<0.000507	<0.000508	<0.000508	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.00251 J	0.00254	0.0022	0.00177	0.00547	0.00188	0.000979	0.000655	0.0016 J	0.00112	0.000904	0.000786	<0.001	0.000587	0.000564	0.000735	<0.001	0.00109	0.0013	0.00154
Barium	mg/L	0.0466	0.0421	0.043	0.0403	0.0331	0.0262	0.028	0.0258	0.0274	0.0184	0.0172	0.0166	0.0408	0.0368	0.0394	0.0405	0.0466	0.0286	0.0277	0.0235
Beryllium	mg/L	<0.0006	<0.000406	<0.000406	<0.000406	<0.0006	<0.000406	<0.000406	<0.000406	<0.0006	<0.000406	<0.000406	<0.000406	<0.0006	<0.000406	<0.000406	<0.000406	<0.0006	<0.000406	0.00166	0.00251
Cadmium	mg/L	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<6.8e-005	<6.8e-005	9.6e-005 J
Chromium	mg/L	<0.002	0.000219 J	0.000255 J	<0.000203	<0.002	<0.000203	0.000296 J	<0.000203	<0.002	0.000204 J	0.000308 J	0.000204 J	<0.002	0.000284 J	0.000297 J	0.000241 J	<0.002	0.000239 J	0.000339 J	<0.000203
Cobalt	mg/L	<0.002	0.000826	0.000776	0.00071	<0.002	<6.8e-005	<6.8e-005	<6.8e-005	<0.002	0.000331	0.000161 J	0.000149 J	<0.002	0.000206	0.000107 J	8.78e-005 J	0.0112	0.0523	0.0816	0.087
Combined Radium	pCi/L	0.398 U	0.846 U	0.627 U	0.649 U	0.197 U	0.334 U	1.4	0.263 U	0.222 U	0.157 U	0.272 U	0.447 U	0.897	0.699 U	0.667 U	0.145 U	0.479 U	1.13	1.24 U	1.28
Lead	mg/L	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<6.8e-005	<6.8e-005	0.000112 J
Lithium	mg/L	0.143	0.156	0.16	0.136	0.12	0.13	0.13	0.101	0.0413	0.045	0.0464	0.04	0.0815	0.0818	0.0827	0.0682	0.0475	0.0237	0.0258	0.0215
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.0356	0.0324	0.0351	0.0333	0.00424 J	0.00393	0.00458	0.00523	0.00213 J	0.0015	0.000468	0.000268	<0.002	0.00031	0.000345	0.00121	0.00311 J	0.00029	0.000166 J	0.000137 J
Selenium	mg/L	<0.002	<0.000507	<0.000508	<0.000508	<0.002	<0.000507	<0.000508	<0.000508	<0.002	<0.000507	<0.000508	<0.000508	<0.002	<0.000507	<0.000508	<0.000508	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	7.01e-005 J	7.55e-005 J	0.000133 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 Quantita



Analyte	Units	MR-AP-MW-13DR				MR-AP-MW-14R			
		10/20/2020	04/21/2021	09/07/2021	03/09/2022	10/20/2020	04/21/2021	09/13/2021	03/09/2022
		<b>Appendix III</b>							
Boron	mg/L	0.0304 J	0.0561 J	0.0476 J	0.049 J	0.0773 J	0.101 J	0.0831 J	0.081 J
Calcium	mg/L	46.7	63.9	64.9	70.3	36.4	35.7	38	38.6
Chloride	mg/L	13.8	40.5	40.2	45.8	7.55	7.77	7.9	7.96
Fluoride	mg/L	0.146	0.134	0.183	0.179	0.177	0.166	0.175	0.188
pH_Field	SU	6.81	6.87	6.77	6.97	6.46	6.49	6.3	6.53
Sulfate	mg/L	65.8	151	167	210	39.3	43.1	47.6	48.7
TDS	mg/L	314	518	494	574	219	232	237	217
<b>Appendix IV</b>									
Antimony	mg/L	<0.0008	<0.000507	<0.000508	<0.000508	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	<0.001	0.000396	0.000413	0.000659	<0.001	0.000288	0.000239	0.000186 J
Barium	mg/L	0.144	0.104	0.0749	0.0618	0.116	0.0998	0.104	0.102
Beryllium	mg/L	<0.0006	<0.000406	<0.000406	<0.000406	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	0.000207 J	0.000306 J	<0.000203	<0.002	0.000239 J	0.000444 J	<0.000203
Cobalt	mg/L	<0.002	0.00086	0.000719	0.000656	<0.002	6.88e-005 J	<6.8e-005	<6.8e-005
Combined Radium	pCi/L	0.357 U	0.748 U	0.822 U	0.284 U	-0.128 U	0.164 U	0.387 U	0.417 U
Lead	mg/L	<0.001	0.000121 J	<6.8e-005	<6.8e-005	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.0343	0.0356	0.0357	0.032	0.0207	0.0211	0.0214	0.0196 J
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.00206 J	0.00592	0.00355	0.00325	<0.002	0.000157 J	0.000107 J	<0.000102
Selenium	mg/L	<0.002	<0.000507	<0.000508	<0.000508	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:  
1. mg/L - Milligrams per Liter  
2. pCi/L - picocuries per Liter  
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita



Analyte	Units	MR-AP-MW-15																			
		07/19/2016	09/26/2016	10/31/2016	01/09/2017	02/14/2017	04/04/2017	05/16/2017	06/12/2017	09/19/2017	01/31/2018	05/07/2018	10/09/2018	04/24/2019	08/28/2019	03/04/2020	10/13/2020	04/26/2021	09/01/2021	03/09/2022	
<b>Appendix III</b>																					
Boron	mg/L	0.15	0.175	0.204	0.192	0.161	0.147	0.168	0.18	0.192	--	0.258	0.237	0.243	0.863	0.285	0.375	0.651	0.705	0.439	
Calcium	mg/L	37	37.5	38.4	37.8	39.2	37.5	40.4	38.4	37.8	--	38.4	38.2	39	53.8	39.3	41.4	48.3	47.8	39.1	
Chloride	mg/L	16.9	17.1	17.3	17.2	20	19	20	21	19	--	20	20	18.3	19.3	18.5	17.5	17.9	17.5	17.6	
Fluoride	mg/L	0.111 J	0.069 J	0.018 J	<0.01	0.1	0.1	0.1	0.1	0.12	0.1	0.11	0.13	0.133	0.0974 J	0.111	0.125	0.117	0.118	0.165	
pH_Field	SU	6.55	6.55	6.49	6.46	6.47	6.38	6.46	6.41	6.5	6.5	6.42	6.46	6.46	6.38	6.43	6.42	6.36	6.16	6.37	
Sulfate	mg/L	69.3	74.7	80.6	77.9	68	71	62	77	72	--	77	76	91.9	227	93.9	107	157	163	120	
TDS	mg/L	255	259	265	276	246	257	283	266	266	--	264	239	234	397	269	280	352	359	263	
<b>Appendix IV</b>																					
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000665	0.000827	0.000376	
Barium	mg/L	0.125	0.131	0.101	0.0952	0.106	0.0962	0.1	0.08	--	0.07	0.071	0.0588	0.0765	0.0424	0.0544	0.0522	0.0308	0.0298	0.0274	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.00203	0.000328 J	0.000612 J	
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	0.0021 J	<0.002	<0.002	0.000703	0.000661	0.000652	
Combined Radium	pCi/L	0.191 U	0.663	0.608	-0.0687 U	0.459 U	0.327 U	0.232 U	0.123 U	--	0.516	0.615	0.825	0.373	0.00424 U	0.337 U	0.232 U	0.643 U	0.37 U	0.387 U	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.0199 J	0.0206 J	0.021 J	0.0201 J	0.022 J	0.0216 J	0.021 J	0.0181 J	--	0.0169 J	0.0187 J	0.019 J	<0.0203	0.0199 J	0.0195 J	0.0195 J	0.0194 J	0.0196 J	0.0176 J	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	0.000316 J	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	8.49e-005 J	<0.000102	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	

Notes:  
 1. mg/L - Milligrams per Liter  
 2. pCi/L - picocuries per Liter  
 3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita



Analyte	Units	MR-AP-MW-16																		
		07/19/2016	09/26/2016	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	10/09/2018	04/24/2019	08/28/2019	03/03/2020	10/13/2020	04/21/2021	09/01/2021	03/08/2022
<b>Appendix III</b>																				
Boron	mg/L	2.86	2.86	3.25	2.71	2.39	1.86	2.67	2.81	3	--	2.83	2.85	2.41	3.18	1.29	2.62	2.63	2.16	2.23
Calcium	mg/L	185	189	163	214	237	159	154	146	136	--	129	211	127	99.5	66.8	96.9	99.3	130	154
Chloride	mg/L	24.9	29.2	25.9	31.7	43	25	21	23	19	--	16	24	12	10.8	5.33	10	10.3	6.87	7.81
Fluoride	mg/L	0.194 J	0.158 J	0.068 J	<0.01	0.14	0.13	0.13	0.14	0.16	0.12	0.16	0.18	0.236	0.29	0.179	0.145	0.173	0.14	0.155
pH_Field	SU	6.07	5.91	6.19	6.03	6.13	5.97	5.97	6.1	6.03	5.95	6.01	6	6.01	6.34	6.19	6.31	6.39	6.31	6.15
Sulfate	mg/L	683	707	610	707	670	520	470	510	460	--	430	580	406	384	198	366	392	427	530
TDS	mg/L	1080	1140	1010	1250	1180	846	880	872	848	--	742	982	618	642	378	738	688	702	738
<b>Appendix IV</b>																				
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	0.000801 J	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	0.00101 J	<0.0008	<0.0008	<0.0008	0.000768 J	<0.000508	<0.000508
Arsenic	mg/L	0.00159 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000891	0.000895	0.000674
Barium	mg/L	0.044	0.0367	0.0277	0.0323	0.0391	0.0245	0.0276	0.0242	--	0.0289	0.0264	0.0271	0.0243	0.0208	0.03	0.0322	0.02	0.0243	0.0211
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	0.000222 J	0.000208 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000203	0.000666 J	<0.000203
Cobalt	mg/L	0.0507	0.0389	0.0152	0.00298 J	0.00507 J	0.00228 J	0.00418 J	<0.002	--	<0.002	<0.002	<0.002	<0.002	0.00216 J	<0.002	0.00352 J	0.00213	0.00646	0.00386
Combined Radium	pCi/L	0.456 U	0.854	0.268 U	0.118 U	0.264 U	0.00348 U	0.229 U	0.226 U	--	1.05	0.444 U	1.15	0.317 U	0.372 U	-0.0538 U	0.209 U	0.319 U	0.231 U	0.455 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.0816	0.0636	0.0759	0.0254 J	0.0859	0.0487 J	0.0297 J	0.0429 J	--	0.026 J	0.0538	0.0285	0.0294 J	0.0555	0.0278	0.132	0.128	0.104	0.0901
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.0204	0.00799 J	0.0458	0.00431 J	0.0255	0.0119	0.00405 J	0.0216	--	0.00829 J	0.0256	0.0114	0.0142	0.107	0.025	0.0494	0.0515	0.0336	0.0418
Selenium	mg/L	<0.002	0.00341 J	<0.002	0.00273 J	0.00281 J	0.00262 J	<0.002	<0.002	--	<0.002	0.00204 J	<0.002	<0.002	<0.002	0.00271 J	0.00351 J	0.000975 J	0.00629	0.00207
Thallium	mg/L	<0.0002	<0.0002	<0.0002	0.000242 J	<0.0002	0.000226 J	<0.0002	<0.0002	--	<0.0002	0.0003 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	7.18e-005 J	<6.8e-005	7.79e-005 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 Quantita



Analyte	Units	GROUNDWATER MONITORING WELLS																					
		MR-AP-MW-4V							MR-AP-MW-6V							MR-AP-MW-17H							
		03/05/2019	08/27/2019	03/04/2020	10/14/2020	04/26/2021	09/01/2021	03/15/2022	03/05/2019	08/28/2019	12/19/2019	03/03/2020	10/19/2020	04/28/2021	09/08/2021	03/16/2022	03/06/2019	08/27/2019	03/10/2020	10/13/2020	05/05/2021	09/07/2021	03/08/2022
<b>Appendix III</b>																							
Boron	mg/L	0.357	0.51	0.303	0.483	0.382	0.452	0.645	0.753	0.379	0.565	0.431	0.437	0.472	0.561	0.499	0.0571 J	0.0898 J	0.0538 J	0.0857 J	0.145	0.0842 J	0.0797 J
Calcium	mg/L	224	252	146	193	178	205	239	181	89.2	114	103	96.4	97.3	110	99.9	47	48.3	50.6	44.6	43.7	43.2	41.7
Chloride	mg/L	26.5	44.5	24.3	35.2	23.6	24.9	23.7	27.8	18.9	27.3	23.6	25	24.3	34.3	27.7	6.27	6.42	4.72	6.09	9.16	6.45	6.06
Fluoride	mg/L	0.135	0.181	0.0996 J	0.125	0.106	0.143	0.255	0.14	0.155	0.132	0.141	0.16	0.142	0.178	0.145	0.133	0.16	0.166	0.171	0.159	0.213	0.158
pH_Field	SU	6.5	6.38	6.34	6.38	6.34	5.85	6.68	7.24	7.34	7.03	7.14	7.28	7.15	6.98	7.17	6.98	6.98	7.04	7	6.99	6.82	7.07
Sulfate	mg/L	565	706	498	554	512	619	715	526	228	341	309	238	268	332	266	60.4	83.6	51.9	81.6	93.2	65.8	62.1
TDS	mg/L	852	1190	736	963	916	1050	1100	840	560	748	622	594	614	708	592	389	436	370	433	514	417	376
<b>Appendix IV</b>																							
Antimony	mg/L	0.000839 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.00175 J	0.00149 J	<0.001	<0.001	0.000554	0.000815	0.00165	0.00146 J	0.0171	0.0149	0.0236	0.00307 J	0.00239	0.0016	0.00161	<0.001	<0.001	<0.001	<0.001	0.00115	0.000107 J	<8.1e-005
Barium	mg/L	0.0223	0.0187	0.019	0.0179	0.0182	0.0177	0.0182	0.0355	0.0614	0.0432	0.0275	0.0597	0.0259	0.0331	0.0281	0.65	0.495	0.425	0.444	1.68	0.511	0.622
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	0.000633 J	<0.000406	<0.000406
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.000203	0.000268 J	<0.000203	<0.002	0.00361 J	<0.002	<0.002	<0.002	0.00026 J	0.000215 J	0.000222 J	<0.002	<0.002	<0.002	<0.002	0.00119	0.000293 J	<0.000203
Cobalt	mg/L	0.00865	0.0104	0.00216 J	0.00364 J	0.00507	0.00741	0.0133	<0.002	<0.002	<0.002	<0.002	<0.002	0.000466	0.000225	0.00018 J	<0.002	<0.002	<0.002	<0.002	0.00342	<6.8e-005	<6.8e-005
Combined Radium	pCi/L	0.244 U	0.948	0.16 U	0.505	0.233 U	0 U	0.496 U	0.66	0.389 U	--	-0.0545 U	0.106 U	0.0421 U	0.891 U	0.493 U	0.732	0.701	1.18	0.298 U	2.37	1.32 U	0.896 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	0.00116	<6.8e-005	<6.8e-005
Lithium	mg/L	0.0575	0.0788	0.0341	0.0601	0.0371	0.0507	0.118	0.145	0.1	0.12	0.104	0.0971	0.109	0.121	0.0943	0.0597	0.0831	0.0566	0.0845	0.116	0.0826	0.0653
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.00463 J	0.00763 J	<0.002	<0.002	0.00109	0.00134	0.00791	0.0065 J	0.00782 J	0.00862 J	0.00777 J	0.00562 J	0.00578	0.0061	0.00644	<0.002	<0.002	<0.002	<0.002	0.000351	<6.8e-005	<0.00102
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<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	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:  
 1. mg/L - Milligrams per Liter  
 2. pCi/L - picocuries per Liter  
 3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita



Analyte	Units	MR-AP-MW-18H							MR-AP-MW-19HA					MR-AP-MW-20H						
		03/06/2019	08/27/2019	03/10/2020	10/13/2020	05/05/2021	09/14/2021	03/08/2022	03/09/2020	10/14/2020	04/20/2021	09/13/2021	03/09/2022	03/06/2019	09/03/2019	03/10/2020	10/19/2020	04/28/2021	09/08/2021	03/09/2022
<b>Appendix III</b>																				
Boron	mg/L	0.178	0.299	0.151	0.302	0.237	0.289	0.194	0.132	0.167	0.193	0.159	0.163	0.699	0.751	0.759	0.724	0.735	0.741	0.763
Calcium	mg/L	4.86	16	2.15	17.7	12.5	15.1	3.77	5.28	8	10.1	6	8.95	266	240	226	201	191	207	206
Chloride	mg/L	8.61	58.9	5.53	22.7	14.9	14.1	5.42	26.3	120	250	138	165	44.5	43.8	44.2	38.6	34	33.4	27.6
Fluoride	mg/L	0.256	0.26	0.261	0.272	0.242	0.273	0.294	2.41	2.32	2.51	2.59	2.4	0.234	0.279	0.297	0.311	0.303	0.347	0.329
pH_Field	SU	7.39	7.28	7.28	7.23	7.31	7.39	7.5	8.05	8.25	7.97	8.63	8.07	7.14	7.49	7.35	7.33	7.29	7.37	7.38
Sulfate	mg/L	158	427	98.1	362	270	291	125	35	83.1	167	58.8	110	904	820	793	634	645	718	785
TDS	mg/L	398	937	328	823	646	682	360	900	1300	1500	1020	1020	1260	1320	1290	1130	1140	1180	1120
<b>Appendix IV</b>																				
Antimony	mg/L	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	0.000269	0.000241	0.000244	0.00384 J	0.00247 J	0.000986	0.000423	0.000396	<0.001	0.00104 J	<0.001	0.00105 J	0.00106	0.000941	0.000972
Barium	mg/L	0.0293	0.0361	0.0261	0.0379	0.0484	0.0301	0.0245	0.0752	0.0769	0.0976	0.0673	0.0604	0.0486	0.0361	0.0267	0.0276	0.025	0.028	0.0245
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	0.0003 J	0.000328 J	<0.000203	<0.002	<0.002	<0.000203	0.000289 J	<0.000203	<0.002	<0.002	<0.002	<0.002	0.000229 J	0.000241 J	0.000205 J
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005	<0.002	<0.002	<0.002	<0.002	0.000658	0.000784	0.000735
Combined Radium	pCi/L	0.229 U	0.344 U	0.95	0.0821 U	0.183 U	0.686 U	0.528 U	0.684	0.362	0.93 U	0.231 U	0.425 U	0.995	0.144 U	0.276 U	0.154 U	0.46 U	0.265 U	0.408 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	0.0023 J	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.1	0.23	0.0875	0.215	0.167	0.188	0.0926	0.138	0.173	0.183	0.169	0.126	0.235	0.278	0.277	0.245	0.267	0.269	0.214
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.00498 J	0.0131	0.00972 J	0.00832 J	0.00733	0.00851	0.0104	<0.002	<0.002	0.000945	0.000577	0.00056	0.0391	0.055	0.0593	0.0683	0.0606	0.0609	0.0621
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	0.00512 J	<0.002	<0.000507	<0.000508	<0.000508	<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	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:  
 1. mg/L - Milligrams per Liter  
 2. pCi/L - picocuries per Liter  
 3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita





Analyte	Units	MR-AP-MW-20HS								MR-AP-MW-27HR				MR-AP-MW-28H				MR-AP-MW-30H				
		03/06/2019	09/03/2019	03/10/2020	10/19/2020	05/03/2021	09/08/2021	03/09/2022	10/26/2020	05/03/2021	09/14/2021	03/14/2022	03/09/2020	10/19/2020	04/20/2021	09/13/2021	03/14/2022	03/10/2020	10/20/2020	04/21/2021	09/13/2021	03/16/2022
		<b>Appendix III</b>																				
Boron	mg/L	0.641	0.61	0.633	0.615	0.562	0.553	0.491	<0.03	<0.03	<0.03	<0.03	0.119	0.608	0.212	0.289	0.292	0.0912 J	0.0673 J	0.0481 J	0.0312 J	0.0385 J
Calcium	mg/L	179	161	157	145	133	130	115	47.2	48.8	47.2	47.2	56.9	63.6	49.8	58.3	50.6	207	228	229	223	198
Chloride	mg/L	38.1	36.8	38.9	35.4	34.4	35.4	33.8	14.1	16	15.6	15.5	5.26	5.22	5.58	6.4	5.91	117	149	131	81.7	99.5
Fluoride	mg/L	<0.05	<0.05	0.0631 J	<0.06	0.0639 J	<0.06	<0.06	0.161	0.171	0.175	0.116 J	0.117	0.154	0.123	0.145	0.111 J	0.172	0.158	0.141	0.171	0.142
pH_Field	SU	6.32	6.34	6.47	6.51	6.29	6.33	6.71	7.2	7.16	7.21	7.17	6.8	6.79	6.64	6.62	6.82	6.91	6.84	6.83	6.79	6.72
Sulfate	mg/L	619	529	550	475	438	479	398	61.6	69.2	66.2	65.4	105	173	96.2	133	105	820	850	796	764	761
TDS	mg/L	894	929	944	862	774	770	692	321	314	315	314	375	458	370	428	377	1720	1840	1700	1440	1380
<b>Appendix IV</b>																						
Antimony	mg/L	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.0008	<0.000507	<0.000508	<0.000508	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	0.00022	0.000219	0.000305	<0.001	0.00031	0.000272	0.000265	0.00423 J	0.00281 J	0.00173	0.00164	0.00134	0.00737	0.00242 J	0.000974	0.000493	0.000718
Barium	mg/L	0.0711	0.0425	0.0292	0.0283	0.027	0.0269	0.0262	0.101	0.0893	0.091	0.0854	0.0658	0.0429	0.0447	0.0484	0.0453	0.0503	0.0468	0.0266	0.0207	0.0222
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.0006	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.000203	0.00025 J	<0.000203	<0.002	0.000203 J	0.000388 J	0.000357 J	<0.002	<0.002	<0.000203	0.000265 J	<0.000203	<0.002	<0.002	<0.000203	0.000324 J	<0.000203
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	0.00089	0.000804	0.000904	<0.002	<6.8e-005	<6.8e-005	<6.8e-005	0.00226 J	<0.002	0.000397	0.000266	0.000267	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005
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	0.0991 U	0.455 U	0.417 U	0.336 U	0.641	0.155 U	0.0931 U	0.173 U	0.219 U	0.829	0.598	1.09	0.361 U	0.539 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	0.000258	<6.8e-005	<6.8e-005	<0.001	<0.001	<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	0.0987	0.0973	0.094	0.0797	0.0783	0.0783	0.0573	0.0427	0.0441	0.0441	0.0385	0.0593	0.058	0.0576	0.0606	0.0531	0.0821	0.0918	0.108	0.0967	0.0866
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	0.000249	0.000407	0.000371	<0.002	0.00103	0.000808	0.000666	<0.002	0.00517 J	0.0017	0.00156	0.00247	0.00436 J	0.00856 J	0.00576	0.00103	0.00117
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.002	<0.000507	<0.000508	<0.000508	<0.002	<0.002	<0.000507	<0.000508	<0.000508	0.00228 J	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<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 Quantita



Analyte	Units	MR-AP-MW-32H					MR-AP-MW-33H					MR-AP-MW-34H					MR-AP-MW-35H				
		03/10/2020	10/15/2020	04/28/2021	09/14/2021	03/09/2022	03/05/2020	10/14/2020	05/03/2021	09/08/2021	03/14/2022	03/09/2020	10/21/2020	04/21/2021	09/13/2021	03/09/2022	03/10/2020	10/13/2020	05/05/2021	09/07/2021	03/08/2022
<b>Appendix III</b>																					
Boron	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03	0.608	0.738	0.695	0.776	0.715	0.148	0.16	0.178	0.144	0.107	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	51.1	49.5	58.5	58.7	53.6	214	244	248	258	225	21.1	24.6	28.1	20.2	13	57.5	64.9	61.5	63.3	61.6
Chloride	mg/L	5.73	4.47	7.94	7.41	8.5	33.9	38.7	33.4	30.3	24.3	159	199	273	216	161	2.26	1.91	2.57	2.13	2.2
Fluoride	mg/L	0.132	0.151	0.133	0.275	0.138	0.173	0.223	0.185	0.204	0.186	0.361	0.429	0.4	0.42	0.302	0.16	0.16	0.139	0.155	0.129
pH_Field	SU	7.27	7.32	7.18	7.36	7.35	6.51	6.45	6.48	6.37	6.5	7.76	7.79	7.81	8.2	8.09	6.69	6.64	6.72	6.58	6.77
Sulfate	mg/L	16.3	7.29	21.8	16.2	18.2	679	700	710	818	730	220	279	372	257	185	182	196	184	211	199
TDS	mg/L	216	232	252	239	234	1020	1170	1160	1220	1080	1100	1540	1690	1270	909	438	455	444	451	432
<b>Appendix IV</b>																					
Antimony	mg/L	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.00312 J	0.00527	0.000881	0.000924	0.000712	0.00362 J	0.0047 J	0.00436	0.00429	0.00266	0.00719	<0.001	0.0013	0.000865	0.000516	0.0139	0.0146	0.0117	0.0129	0.0117
Barium	mg/L	0.367	0.584	0.522	0.585	0.492	0.0326	0.0381	0.0324	0.0369	0.0317	0.088	0.0952	0.0853	0.0692	0.0647	0.0349	0.0315	0.0317	0.0289	0.0276
Beryllium	mg/L	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	0.000309 J	0.000365 J	<0.000203	<0.002	<0.002	0.000276 J	0.000252 J	<0.000203	<0.002	<0.002	<0.000203	0.000318 J	0.000208 J	<0.002	<0.002	<0.000203	0.000334 J	0.000233 J
Cobalt	mg/L	<0.002	<0.002	0.000134 J	<6.8e-005	7.12e-005 J	0.00965	0.0121	0.0112	0.0123	0.0105	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005	<0.002	<0.002	<6.8e-005	<6.8e-005	7.58e-005 J
Combined Radium	pCi/L	0.4 U	0.826	0.352 U	0.784 U	0.497 U	0.636 U	0.0343 U	0.5 U	0.711 U	0.655 U	0.875	0.53	0.745 U	0.761 U	0.822 U	0.943	0.0328 U	0.466 U	0.878 U	1.37
Lead	mg/L	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	6.88e-005 J	9.5e-005 J	<6.8e-005	<0.001	<0.001	<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	<0.01	<0.01	<0.007105	<0.007105	<0.007105	0.145	0.155	0.153	0.175	0.125	0.164	0.156	0.218	0.188	0.127	0.0306	0.0305	0.0298	0.0298	0.0264
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.0129	0.00939 J	0.00777	0.00617	0.00541	0.0139	0.0223	0.0166	0.0184	0.0187	0.00255 J	0.00201 J	0.00534	0.00634	0.00206	0.00217 J	<0.002	0.0017	0.000963	0.00124
Selenium	mg/L	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.002	<0.002	<0.000507	<0.000508	<0.000508	0.0461	<0.002	<0.000507	<0.000508	0.00131	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<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 Quantita



Analyte	Units	MR-AP-MW-36HR				MR-AP-MW-37H				MR-AP-MW-31H				
		10/27/2020	04/21/2021	09/13/2021	03/16/2022	03/09/2020	10/19/2020	05/03/2021	09/15/2021	03/17/2022	10/27/2020	04/27/2021	09/13/2021	03/16/2022
		<b>Appendix III</b>												
Boron	mg/L	0.0966 J	0.115	0.122	0.132	0.0385 J	<0.03	<0.03	<0.03	<0.03	0.0341 J	0.0315 J	0.0315 J	0.0319 J
Calcium	mg/L	10.9	23.8	31.2	32.6	41.7	38.9	40.1	39.6	38.3	130	131	130	130
Chloride	mg/L	66.6	274	406	471	10.7	10.3	10.7	10.6	10.9	12.5	11.5	13.1	14.1
Fluoride	mg/L	0.272	0.412	0.49	0.4	0.173	0.178	0.167	0.201	0.132	0.14	0.144	0.164	<0.06
pH_Field	SU	7.54	7.72	7.8	7.51	7.33	7.32	7.41	7.22	7.12	6.95	7.01	7.04	6.94
Sulfate	mg/L	285	559	628	746	31.5	32.4	34.8	36.4	36	410	404	416	414
TDS	mg/L	913	1660	1790	2080	312	295	310	301	305	886	880	842	856
<b>Appendix IV</b>														
Antimony	mg/L	<0.0008	<0.000507	<0.000508	<0.000508	0.00201 J	0.0015 J	0.00123	0.000979 J	0.00105	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.00333 J	0.00666	0.00601	0.00537	0.0113	0.00192 J	0.00127	0.00127	0.000603	0.00133 J	0.000721	0.000485	0.000321
Barium	mg/L	0.0347	0.0467	0.0518	0.0536	0.112	0.11	0.101	0.11	0.105	0.0585	0.045	0.0443	0.0376
Beryllium	mg/L	<0.0006	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.000406	<0.000406	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.000203	0.00041 J	<0.000203	<0.002	<0.002	0.000234 J	0.000255 J	<0.000203	<0.002	<0.000203	0.000332 J	0.000211 J
Cobalt	mg/L	<0.002	0.000116 J	8.8e-005 J	0.000144 J	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005	<0.002	<6.8e-005	<6.8e-005	<6.8e-005
Combined Radium	pCi/L	0.0202 U	0.74 U	0.572 U	0.417 U	0.418 U	-0.0717 U	0.651 U	0.886 U	0.173 U	-0.0134 U	0.446 U	0.605 U	0.701 U
Lead	mg/L	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.161	0.247	0.297	0.294	0.0662	0.0635	0.0663	0.066	0.0588	0.135	0.145	0.147	0.117
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.0195	0.0505	0.0711	0.0981	<0.002	<0.002	<6.8e-005	9.74e-005 J	<0.000102	<0.002	0.00057	0.000361	0.000366
Selenium	mg/L	<0.002	<0.000507	<0.000508	<0.000508	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:  
1. mg/L - Milligrams per Liter  
2. pCi/L - picocuries per Liter  
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita



Analyte	Units	MR-AP-MW-75														
		07/21/2016	09/27/2016	11/01/2016	01/10/2017	02/14/2017	04/04/2017	05/16/2017	06/13/2017	09/18/2017	01/30/2018	05/09/2018	10/09/2018	04/24/2019	08/28/2019	03/03/2020
<b>Appendix III</b>																
Boron	mg/L	0.69	0.669	0.697	0.705	0.722	0.727	0.647	0.673	0.697	--	0.692	0.737	0.73	0.743	0.74
Calcium	mg/L	88.2	79.1	78	85.3	82.7	81.6	78.6	82.3	81.6	--	81.1	82	103	83.7	83.5
Chloride	mg/L	20.6	20.7	21.1	21.3	24	24	25	26	24	--	25	25	22.9	22.7	23.2
Fluoride	mg/L	0.203 J	0.138 J	0.08 J	0.034 J	0.17	0.2	0.18	0.18	0.22	0.21	0.21	0.25	0.296	0.221	0.219
pH_Field	SU	6.51	6.51	6.51	6.52	6.5	6.4	6.45	6.49	6.56	6.54	6.52	6.56	6.43	6.56	6.55
Sulfate	mg/L	277	258	251	257	250	260	250	260	240	--	210	220	239	258	295
TDS	mg/L	640	612	626	610	608	582	630	636	618	--	542	558	574	568	600
<b>Appendix IV</b>																
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008
Arsenic	mg/L	0.00237 J	0.00249 J	0.00239 J	0.00267 J	0.00272 J	0.00253 J	0.0023 J	0.00222 J	--	0.00254 J	0.0025 J	0.00202 J	0.00245 J	0.0021 J	0.00237 J
Barium	mg/L	0.0415	0.0355	0.038	0.0369	0.0414	0.0349	0.0384	0.034	--	0.0381	0.0365	0.0333	0.0402	0.0451	0.0383
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<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	--	0.00207 J	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Combined Radium	pCi/L	0.209 U	0.515 U	0.315 U	0.207 U	0.315 U	0.316 U	0.177 U	0.48	--	0.53	0.248 U	0.695	0.148 U	0.864	0.351 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	0.148	0.146	0.15	0.141	0.18	0.183	0.146	0.147	--	0.14	0.15	0.153	0.148	0.158	0.158
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.0283	0.029	0.0262	0.028	0.0293	0.0284	0.0281	0.0255	--	0.032	0.0278	0.0302	0.0325	0.0349	0.0344
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

Notes:  
1. mg/L - Milligrams per Liter  
2. pCi/L - picocuries per Liter  
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita



Analyte	Units	MR-AP-MW-7D														
		07/21/2016	09/27/2016	11/01/2016	01/10/2017	02/14/2017	04/04/2017	05/16/2017	06/13/2017	09/18/2017	01/29/2018	05/09/2018	10/09/2018	04/24/2019	08/28/2019	03/03/2020
		<b>Appendix III</b>														
Boron	mg/L	0.744	0.711	0.745	0.733	0.753	0.755	0.691	0.715	0.734	--	0.727	0.769	0.756	0.764	0.752
Calcium	mg/L	115	109	106	107	114	105	105	110	108	--	110	114	140	113	117
Chloride	mg/L	21.8	22.1	22.4	22.2	26	26	26	27	25	--	27	29	28	27.2	28.6
Fluoride	mg/L	0.125 J	0.068 J	0.014 J	<0.01	0.07 J	0.09 J	0.1	0.1	0.11	0.1	0.1	0.12	0.156	0.106	0.105
pH_Field	SU	6.71	6.71	6.74	6.77	6.74	6.66	6.69	6.71	6.77	6.75	6.7	6.74	6.63	6.58	6.74
Sulfate	mg/L	367	347	342	333	320	350	340	360	340	--	340	360	364	371	419
TDS	mg/L	756	778	746	714	744	746	772	780	770	--	730	764	748	660	736
<b>Appendix IV</b>																
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008
Arsenic	mg/L	0.00186 J	0.00193 J	0.00177 J	0.00185 J	0.00174 J	0.00157 J	0.0015 J	0.00144 J	--	0.00185 J	0.00148 J	0.00211 J	0.00189 J	0.00197 J	0.00224 J
Barium	mg/L	0.0343	0.0294	0.0316	0.0304	0.0359	0.0295	0.0319	0.0307	--	0.0331	0.032	0.0296	0.0326	0.0361	0.034
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<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	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Combined Radium	pCi/L	0.514	0.798	0.657	0.427 U	0.437 U	0.343 U	0.625	0.152 U	--	0.218 U	0.395 U	0.44 U	0.423 U	0.327 U	0.194 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	0.124	0.115	0.117	0.107	0.142	0.137	0.109	0.108	--	0.1	0.107	0.103	0.0996	0.111	0.109
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	0.000318 J	<0.0003	<0.0003
Molybdenum	mg/L	0.0155	0.0133	0.012	0.0108	0.0102	0.0089 J	0.00836 J	0.00732 J	--	0.00815 J	0.00604 J	0.00618 J	0.00612 J	0.00531 J	0.00727 J
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

Notes:  
1. mg/L - Milligrams per Liter  
2. pCi/L - picocuries per Liter  
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita



Analyte	Units	MR-AP-MW-85														
		07/25/2016	09/27/2016	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	10/09/2018	04/24/2019	08/28/2019	03/03/2020
<b>Appendix III</b>																
Boron	mg/L	1.56	1.55	1.47	1.52	1.46	1.58	1.45	1.59	1.76	--	1.05	2.05	1.53	2.06	0.692
Calcium	mg/L	58.5	71.1	77.2	110	89.3	62.2	57.3	56.6	52.5	--	48.6	55.2	53.6	56.9	49.3
Chloride	mg/L	4.64	8.74	16.2	21.7	14	6.5	4.6	4.6	4.5	--	3.2	4.7	4.06	4.08	13.6
Fluoride	mg/L	0.471	0.375	0.259 J	0.215 J	0.36	0.43	0.43	0.43	0.57	0.55	0.48	0.64	0.531	0.565	0.303
pH_Field	SU	6.7	6.71	6.71	6.66	6.66	6.66	6.68	6.72	6.76	6.79	6.69	6.82	6.62	6.78	6.34
Sulfate	mg/L	363	446	471	604	460	370	320	330	310	--	240	330	315	366	309
TDS	mg/L	686	828	888	1120	844	726	698	710	698	--	496	716	596	712	504
<b>Appendix IV</b>																
Antimony	mg/L	<0.0006	0.00062 J	<0.0006	<0.0006	<0.0006	<0.0006	0.000683 J	<0.0006	--	<0.0006	0.000744 J	<0.0008	0.000999 J	<0.0008	0.0012 J
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium	mg/L	0.0233	0.0245	0.0285	0.0368	0.0337	0.0212	0.0202	0.0179	--	0.0201	0.0195	0.0169	0.0202	0.0217	0.0262
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Combined Radium	pCi/L	0.323 U	0.0932 U	0.0619 U	0.291 U	0.837	0.143 U	0.213 U	0.248 U	--	0.289 U	0.047 U	0.385 U	0.175 U	0.367 U	-0.142 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	0.0338 J	0.0369 J	0.0413 J	0.0487 J	0.0574	0.0483 J	0.0329 J	0.0338 J	--	0.0314 J	0.0282 J	0.0295	0.0268 J	0.0292	0.0304
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	0.000334 J	<0.0003	<0.0003
Molybdenum	mg/L	0.0453	0.0485	0.0393	0.0393	0.0422	0.0535	0.05	0.0454	--	0.0681	0.0259	0.0532	0.0298	0.0592	0.00692 J
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	0.00359 J	<0.002	<0.002	<0.002	0.00202 J
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

Notes:  
1. mg/L - Milligrams per Liter  
2. pCi/L - picocuries per Liter  
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita



Analyte	Units	MR-AP-MW-8D														
		07/25/2016	09/28/2016	11/01/2016	01/10/2017	02/15/2017	04/04/2017	05/17/2017	06/13/2017	09/19/2017	01/30/2018	05/09/2018	10/09/2018	04/24/2019	08/28/2019	03/03/2020
<b>Appendix III</b>																
Boron	mg/L	0.916	1.03	1.04	1.01	1.05	1.15	1.13	1.13	1.13	--	0.76	1.16	0.893	1.05	0.742
Calcium	mg/L	46.8	52.4	58	81.2	72.1	55.7	53.7	51.6	51.5	--	50	51.3	54.1	55.2	52.7
Chloride	mg/L	6.35	8.42	13.1	16.8	14	8.2	7.1	7	9.1	--	10	9	11.2	10.8	15.1
Fluoride	mg/L	0.26 J	0.225 J	0.151 J	0.095 J	0.24	0.3	0.29	0.3	0.35	0.35	0.26	0.36	0.258	0.214	0.151
pH_Field	SU	6.27	6.4	6.41	6.36	6.34	6.41	6.36	6.43	6.32	6.46	6.11	6.26	5.91	6.09	5.83
Sulfate	mg/L	321	368	389	483	420	320	300	300	350	--	370	400	461	439	500
TDS	mg/L	592	698	738	772	772	662	664	632	700	--	672	694	724	764	742
<b>Appendix IV</b>																
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008
Arsenic	mg/L	0.00116 J	0.00144 J	0.00132 J	0.00127 J	<0.001	<0.001	<0.001	<0.001	--	0.00161 J	0.00168 J	0.0012 J	0.00146 J	0.00146 J	0.00166 J
Barium	mg/L	0.0547	0.0478	0.0521	0.0452	0.0408	0.0311	0.0367	0.0344	--	0.0379	0.0311	0.0302	0.0295	0.0323	0.025
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<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	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	0.0051 J	0.00389 J	0.00318 J	0.00311 J	0.00327 J	0.00279 J	0.0036 J	0.00333 J	--	0.00272 J	0.00503 J	0.00555	0.00723	0.00697	0.007
Combined Radium	pCi/L	0.305 U	0.205 U	1.13	0.0076 U	0.665	0.278 U	0.798 U	0.544	--	0.325 U	-0.113 U	0.222 U	-0.104 U	0.53 U	0.311 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	0.0373 J	0.0356 J	0.0389 J	0.0472 J	0.0531	0.0461 J	0.0402 J	0.0355 J	--	0.0419 J	0.0535	0.0494	0.0568	0.0615	0.0672
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	0.000303 J	<0.0003	<0.0003
Molybdenum	mg/L	0.0173	0.0242	0.0228	0.0195	0.0197	0.0236	0.027	0.026	--	0.033	0.00842 J	0.0168	0.00699 J	0.0104	0.00259 J
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

**Notes:**

1. mg/L - Milligrams per Liter

2. pCi/L - picocuries per Liter

3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita



Analyte	Units	MR-AP-MW-9S														
		07/20/2016	09/27/2016	11/02/2016	01/12/2017	02/15/2017	04/06/2017	05/17/2017	06/14/2017	09/19/2017	01/30/2018	05/08/2018	10/09/2018	04/24/2019	08/27/2019	03/03/2020
<b>Appendix III</b>																
Boron	mg/L	0.295	0.282	0.293	0.358	0.398	0.367	0.358	0.406	0.409	--	0.399	0.437	0.757	0.438	1.41
Calcium	mg/L	91.9	79.9	83.8	62.5	20.9	18.6	57.1	50.7	50.7	--	57.8	51.7	325	77.6	66
Chloride	mg/L	9.28	9.44	10.2	8.44	2.7	5.6	8.3	6.6	7.1	--	4.2	7.5	5.42	7.56	4.18
Fluoride	mg/L	0.139 J	0.086 J	0.047 J	<0.01	0.17	0.2	0.14	0.16	0.19	0.19	0.22	0.22	0.277	0.173	0.287
pH_Field	SU	5.45	5.46	5.37	5.46	5.96	6.07	5.59	5.71	5.73	5.88	5.86	5.76	5.82	5.53	5.99
Sulfate	mg/L	793	674	794	555	86	65	410	410	380	--	360	340	513	553	425
TDS	mg/L	1250	1120	1150	866	221	195	782	646	664	--	646	616	838	892	650
<b>Appendix IV</b>																
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium	mg/L	0.0201	0.0175	0.0175	0.0224	0.0153	0.0132	0.0314	0.0316	--	0.0188	0.0408	0.0241	0.0458	0.0332	0.0268
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	0.000319 J	<0.0003	<0.0003
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	0.00995 J	0.00686 J	0.0076 J	0.00419 J	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	0.00264 J	<0.002
Combined Radium	pCi/L	0.291 U	0.639	0.851	0.658 U	0.76	0.122 U	0.781 U	0.285 U	--	0.162 U	0.583	0.67	0.471 U	0.477 U	0.192 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	0.188	0.167	0.181	0.151	0.0385 J	0.0343 J	0.132	0.103	--	0.0577	0.1	0.119	0.142	0.138	0.117
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	0.000345 J	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	0.00211 J	<0.002	<0.002	<0.002	--	0.00357 J	<0.002	<0.002	<0.002	<0.002	0.00584 J
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita





Analyte	Units	MR-AP-MW-9D														
		07/20/2016	09/28/2016	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	10/09/2018	04/24/2019	08/27/2019	03/03/2020
<b>Appendix III</b>																
Boron	mg/L	0.644	0.641	0.671	0.696	0.708	0.716	0.735	0.695	0.716	--	0.722	0.752	0.758	0.75	0.769
Calcium	mg/L	60.6	61.2	58	62.6	68.2	65.4	67.3	65.8	66	--	64.6	63.8	66	67.7	70.8
Chloride	mg/L	8.7	8.99	9.34	9.94	13	13	14	14	13	--	12	11	11.2	10.2	10.3
Fluoride	mg/L	0.155 J	0.1 J	0.046 J	<0.01	0.11	0.11	0.13	0.14	0.16	0.09 J	0.05 J	0.17	0.205	0.173	0.158
pH_Field	SU	5.76	5.75	5.71	5.76	5.69	5.72	5.64	5.69	5.75	5.79	5.71	5.71	5.62	5.44	5.71
Sulfate	mg/L	475	474	470	480	460	530	450	510	470	--	440	340	486	490	585
TDS	mg/L	792	780	800	832	804	808	822	856	824	--	810	776	802	774	816
<b>Appendix IV</b>																
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008
Arsenic	mg/L	0.00202 J	0.00176 J	0.0021 J	0.0022 J	0.00232 J	0.00218 J	0.00207 J	0.00197 J	--	0.0023 J	0.00211 J	0.00182 J	0.00194 J	0.00188 J	0.00191 J
Barium	mg/L	0.0144	0.0141	0.0132	0.0125	0.0129	0.0117	0.011	0.0108	--	0.0148	0.0124	0.0108	0.0128	0.014	0.0122
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<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	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	0.0163	0.0155	0.0168	0.0164	0.0192	0.0222	0.0194	0.0193	--	0.0157	0.0179	0.0182	0.0207	0.0198	0.0203
Combined Radium	pCi/L	0.466 U	0.0728 U	0.16 U	0.747	0.0228 U	0.358 U	-0.25 U	0.828	--	0.0739 U	0.313 U	0.419 U	0.25 U	0.74	0.874
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	0.0779	0.0709	0.0733	0.0743	0.0896	0.089	0.0783	0.0723	--	0.0693	0.0738	0.0736	0.0724	0.0801	0.0802
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	0.000331 J	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

Notes:  
1. mg/L - Milligrams per Liter  
2. pCi/L - picocuries per Liter  
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita



Analyte	Units	MR-AP-MW-10																				
		07/25/2016	09/27/2016	10/31/2016	01/11/2017	02/14/2017	04/06/2017	05/17/2017	06/13/2017	09/21/2017	01/31/2018	05/10/2018	10/08/2018	04/24/2019	08/29/2019	03/09/2020	10/19/2020	05/03/2021	09/15/2021	03/17/2022	05/19/2022	
<b>Appendix III</b>																						
Boron	mg/L	3.36	3.18	3.32	3.05	2.87	2.87	2.71	2.67	3.08	--	3.04	3.46	3.61	4.1	4.7	4.44	4.45	4.8	5.87	6.12	
Calcium	mg/L	132	127	122	124	125	125	124	129	133	--	132	164	201	178	222	149	165	152	78.6	143	
Chloride	mg/L	6.41	6.3	6.36	6.65	9.2	8	8.1	8.1	7.7	--	7.4	7.4	7.66	6.65	7.47	6.03	6.38	6.39	4.75	8.04	
Fluoride	mg/L	0.439	0.336	0.26 J	0.21 J	0.34	0.38	0.33	0.34	0.43	0.42	0.42	0.49	0.433	0.445	0.517	0.608	0.599	0.727	1.86	1.24	
pH_Field	SU	6.73	6.82	6.78	6.8	6.74	6.73	6.73	6.71	6.8	6.81	6.77	6.86	6.91	6.93	7.03	7.05	7.01	7.04	7.24	6.99	
Sulfate	mg/L	787	714	741	731	670	640	620	950	660	--	680	750	950	847	1010	781	917	910	735	1390	
TDS	mg/L	1440	1310	1360	1310	1270	1320	1280	1310	1350	--	1310	1430	1460	1550	1720	1430	1510	1490	1230	2080	
<b>Appendix IV</b>																						
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	
Arsenic	mg/L	0.00272 J	0.00246 J	0.00261 J	0.00291 J	0.00272 J	0.00235 J	0.00213 J	0.00218 J	--	0.00229 J	0.00215 J	0.00184 J	0.00193 J	0.00177 J	0.0018 J	0.00186 J	0.00142	0.0016	0.0621	0.0428	
Barium	mg/L	0.0185	0.0131	0.0124	0.0122	0.0151	0.0116	0.0132	0.0131	--	0.0138	0.0142	0.0126	0.0154	0.0185	0.0175	0.0168	0.0147	0.017	0.00983	0.0191	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	7.67e-005 J	<6.8e-005
Chromium	mg/L	0.0112	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000203	0.000473 J	0.000217 J	<0.000203	
Cobalt	mg/L	0.00273 J	0.00263 J	0.00289 J	0.00244 J	0.00209 J	0.00226 J	0.0021 J	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0003	0.000301	0.000905	0.00141	
Combined Radium	pCi/L	0.233 U	0.82	0.37 U	0.668	0.36 U	0.519	-0.497 U	0.147 U	--	0.82	0.383 U	0.193 U	0.601	0.437 U	0.906	0.387 U	0.821 U	1.43 U	0.232 U	--	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	
Lithium	mg/L	0.189	0.171	0.181	0.172	0.209	0.203	0.163	0.155	--	0.163	0.178	0.184	0.186	0.197	0.225	0.166	0.19	0.187	0.175	0.24	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	0.115	0.0985	0.0971	0.0866	0.0895	0.0812	0.0741	0.0719	--	0.0943	0.069	0.0951	0.121	0.158	0.223	0.305	0.296	0.352	0.748	0.687	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<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 Quantita



Analyte	Units	MR-AP-MW-11																				
		07/25/2016	09/27/2016	11/01/2016	01/12/2017	02/13/2017	03/30/2017	04/04/2017	05/16/2017	06/14/2017	09/19/2017	01/30/2018	05/08/2018	10/09/2018	05/01/2019	08/28/2019	03/03/2020	10/20/2020	04/21/2021	09/14/2021	03/16/2022	
<b>Appendix III</b>																						
Boron	mg/L	0.0282 J	0.0253 J	0.0266 J	0.0268 J	0.0263 J	--	0.0252 J	0.0319 J	0.026 J	0.0253 J	--	<0.02	0.0262 J	<0.0609	<0.03	0.0308 J	0.0357 J	<0.03	<0.03	0.0357 J	
Calcium	mg/L	164	164	158	163	166	--	166	160	166	165	--	132	121	136	138	179	151	148	147	176	
Chloride	mg/L	8.3	7.94	7.32	6.29	9.1	--	7	7.1	7.9	6.8	--	7.3	6.5	6.46	6.4	6.2	6.33	5.99	6.33	7.08	
Fluoride	mg/L	0.155 J	0.097 J	0.038 J	<0.01	0.13	--	0.14	0.14	0.14	0.16	0.12	0.13	0.15	0.118	0.13	0.134	0.126	0.111	0.136	0.107 J	
pH_Field	SU	6.74	6.74	6.71	6.61	6.58	6.57	6.56	6.56	6.5	6.55	7.09	7.04	7.3	6.64	7.22	6.6	7.26	6.54	6.67	6.94	
Sulfate	mg/L	637	612	619	654	--	650	690	590	620	630	--	550	450	549	605	618	575	559	588	707	
TDS	mg/L	456	1170	1160	1180	1130	--	1140	1080	1220	1140	--	1070	1010	996	1050	1070	1050	1060	1000	1120	
<b>Appendix IV</b>																						
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	8.14e-005 J	8.05e-005 J	9.29e-005 J
Barium	mg/L	0.052	0.0398	0.0375	0.0291	0.0329	--	0.0292	0.0247	0.0263	--	0.0366	0.0347	0.0322	0.04	0.0387	0.029	0.0414	0.0401	0.0392	0.031	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000203	0.000374 J	<0.000203
Cobalt	mg/L	<0.002	<0.002	<0.002	0.00316 J	0.00227 J	--	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005
Combined Radium	pCi/L	0.604 U	0.65	0.458 U	0.308 U	-0.0581 U	--	0.288 U	0.119 U	0.129 U	--	0.31 U	0.0757 U	0.5	0.295 U	0.358 U	0.227 U	0.0474 U	0.309 U	0.279 U	0.579 U	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.119	0.108	0.116	0.12	0.149	--	0.154	0.128	0.118	--	0.229	0.246	0.307	0.327	0.318	0.255	0.297	0.421	0.374	0.153	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000741	0.000746	0.000387
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<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 Quantita



Analyte	Units	MR-AP-MW-12																		
		07/20/2016	09/27/2016	11/01/2016	01/11/2017	02/15/2017	04/04/2017	05/15/2017	06/14/2017	09/21/2017	01/30/2018	05/08/2018	10/08/2018	08/28/2019	03/10/2020	10/19/2020	05/05/2021	09/07/2021	03/17/2022	05/19/2022
<b>Appendix III</b>																				
Boron	mg/L	2.36	2.14	2.21	2.04	2.12	2.51	2.54	2.83	3.76	--	5.61	6.35	7.06	7.52	7.42	8.01	7.19	7.07	6.39
Calcium	mg/L	178	165	160	170	173	167	169	177	171	--	173	174	152	138	115	107	128	94.6	94.2
Chloride	mg/L	8.05	8.37	8.62	8.33	9.9	9.5	8.1	8	7.7	--	6.8	6.9	7.27	7.52	7.33	8.01	8.14	8.05	7.92
Fluoride	mg/L	0.701	0.597	0.502	0.472	0.59	0.67	0.63	0.63	0.66	0.69	0.65	0.85	0.916	0.929	0.978	0.958	0.843	1.21	1.23
pH_Field	SU	6.63	6.59	6.6	6.59	6.59	6.54	6.56	6.55	6.53	6.59	6.49	6.51	6.63	6.52	6.5	6.5	6.46	6.65	6.42
Sulfate	mg/L	895	841	829	855	860	1100	900	1100	1100	--	1400	1500	1780	1580	1630	1510	1850	1730	1510
TDS	mg/L	1620	1560	1580	1570	1470	1840	1660	1960	2030	--	2400	2630	2850	2420	2540	2530	2940	2580	2360
<b>Appendix IV</b>																				
Antimony	mg/L	0.00069 J	0.000757 J	<0.0006	<0.0006	<0.0006	0.000652 J	0.000849 J	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	0.000558 J	0.000583 J	0.000656 J
Arsenic	mg/L	0.00169 J	0.00187 J	0.00203 J	0.00196 J	0.00189 J	0.00186 J	0.00167 J	0.00161 J	--	0.00189 J	0.00222 J	0.0024 J	0.00297 J	0.00353 J	0.00463 J	0.00514	0.00507	0.0078	0.00814
Barium	mg/L	0.0243	0.0273	0.0211	0.0208	0.0227	0.021	0.0229	0.0221	--	0.0224	0.0194	0.0167	0.0177	0.015	0.0157	0.0136	0.0191	0.0149	0.0162
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	9.27e-005 J	0.000123 J	0.000133 J	9.14e-005 J
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000203	0.000836 J	0.00048 J	0.000772 J
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	0.00211 J	<0.002	<0.002	<0.002	<0.002	0.00141	0.00165	0.00116	0.00114
Combined Radium	pCi/L	0.271 U	0.858	0.456 U	0.624 U	0.821	0.258 U	0.382 U	0.746	--	0.366 U	0.854 U	0.717	0.577 U	1.57	0.17 U	0.446 U	0.521 U	0.656 U	--
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.229	0.198	0.204	0.205	0.274	0.279	0.206	0.205	--	0.178	0.199	0.19	0.158	0.146	0.12	0.124	0.176	0.096	0.127
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.0267	0.0362	0.0329	0.0322	0.0374	0.036	0.0365	0.0368	--	0.113	0.119	0.31	0.646	0.49	0.858	0.662	0.821	1.22	1.06
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<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 Quantita



Analyte	Units	MR-AP-MW-13D														
		07/20/2016	09/27/2016	11/01/2016	01/11/2017	02/15/2017	04/04/2017	05/17/2017	06/13/2017	09/19/2017	01/31/2018	05/08/2018	10/09/2018	04/24/2019	08/29/2019	03/09/2020
<b>Appendix III</b>																
Boron	mg/L	0.0601 J	0.0979 J	0.108	0.0719 J	0.0714 J	0.0553 J	0.0781 J	0.0675 J	0.0732 J	--	0.083 J	0.102	0.0987 J	0.0961 J	0.0929 J
Calcium	mg/L	49.9	66.5	51.8	47.2	50.7	48.9	48.7	49.2	47.3	--	47.3	44.6	46	47.3	43.2
Chloride	mg/L	10.4	13.8	12	11.7	15	13	14	14	13	--	14	14	14.7	13.4	11.7
Fluoride	mg/L	0.149 J	0.076 J	0.028 J	<0.01	0.1	0.12	0.13	0.13	0.11	0.13	0.14	0.18	0.199	0.144	0.159
pH_Field	SU	6.75	6.49	6.5	6.64	6.61	6.66	6.7	6.69	6.76	6.81	6.72	6.72	6.67	6.8	6.68
Sulfate	mg/L	58.9	115	87.8	87.1	82	82	66	79	69	--	70	54	92.4	82.7	62.1
TDS	mg/L	307	446	398	338	342	328	336	319	315	--	326	283	323	307	288
<b>Appendix IV</b>																
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008
Arsenic	mg/L	0.00239 J	0.00241 J	0.00315 J	0.00197 J	0.00253 J	0.00179 J	0.0015 J	0.00157 J	--	0.00196 J	0.00227 J	0.00272 J	0.00439 J	0.00296 J	0.00866
Barium	mg/L	0.0827	0.0955	0.0744	0.0614	0.0741	0.0668	0.0725	0.0812	--	0.0843	0.078	0.0712	0.0726	0.0876	0.088
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<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	--	<0.002	<0.002	<0.002	<0.002	0.00264 J	0.0247
Cobalt	mg/L	<0.002	0.0021 J	0.00214 J	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Combined Radium	pCi/L	0.324 U	0.385 U	0.119 U	0.324 U	0.393 U	0.263 U	0.555 U	0.305 U	--	0.461	0.441 U	0.683	0.482	0.287 U	0.865
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	0.00129 J
Lithium	mg/L	0.0382 J	0.0434 J	0.0442 J	0.041 J	0.0474 J	0.0453 J	0.0403 J	0.0362 J	--	0.0343 J	0.0391 J	0.0404	0.0404 J	0.0432	0.0429
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

Notes:  
1. mg/L - Milligrams per Liter  
2. pCi/L - picocuries per Liter  
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita



Analyte	Units	MR-AP-MW-135														
		07/20/2016	09/27/2016	11/01/2016	01/11/2017	02/15/2017	04/06/2017	05/17/2017	06/13/2017	09/19/2017	01/31/2018	05/08/2018	10/09/2018	04/24/2019	08/29/2019	03/09/2020
<b>Appendix III</b>																
Boron	mg/L	0.0816 J	0.0837 J	0.0837 J	0.0795 J	0.0889 J	0.0777 J	0.095 J	0.0938 J	0.108	--	0.101	0.106	0.137 J	0.11	0.1
Calcium	mg/L	15.5	14.3	14.3	15.1	15.7	15.1	16.1	16.2	15.9	--	16.7	15.8	16	17.6	16.6
Chloride	mg/L	8.49	7.85	7.7	6.9	9.4	7.5	8.9	9.1	10	--	11	10	9.4	9.33	7.17
Fluoride	mg/L	0.106 J	0.058 J	0.078 J	<0.01	0.06 J	0.07 J	0.09 J	0.09 J	0.11	0.09 J	0.09 J	0.12	0.161	0.103	0.119
pH_Field	SU	5.63	5.63	5.58	5.56	5.58	5.53	5.53	5.57	5.65	5.67	5.6	5.64	5.65	5.67	5.58
Sulfate	mg/L	125	116	108	128	110	120	110	120	120	--	120	120	131	137	129
TDS	mg/L	319	306	305	308	305	315	335	331	328	--	326	304	306	323	329
<b>Appendix IV</b>																
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008
Arsenic	mg/L	0.00346 J	0.00306 J	0.00333 J	0.00331 J	0.00367 J	0.00321 J	0.00306 J	0.00337 J	--	0.00394 J	0.00384 J	0.00362 J	0.00362 J	0.00453 J	0.00403 J
Barium	mg/L	0.021	0.0252	0.0201	0.0183	0.0212	0.0175	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	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	0.0214	0.0211	0.0203	0.0198	0.0205	0.0216	0.0209	0.0214	--	0.0186	0.0208	0.0209	0.0237	0.0228	0.0244
Combined Radium	pCi/L	0.0664 U	0.237 U	0.724	0.172 U	1.22	-0.143 U	-0.25 U	0.412	--	0.175 U	0.592	0.657	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	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	0.0825	0.0801	0.0825	0.0834	0.0908	0.0906	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	<0.00025	<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	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita



Analyte	Units	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	01/30/2018	05/08/2018	10/09/2018	04/24/2019	08/28/2019	03/04/2020
<b>Appendix III</b>																
Boron	mg/L	0.115	0.135	0.153	0.19	0.148	0.129	0.157	0.14	0.115	--	0.102	0.118	0.121 J	0.126	0.122
Calcium	mg/L	30.5	29.3	28.6	30.3	31.1	31.7	32.8	33.4	33.6	--	34	32.8	33.6	36.5	34.2
Chloride	mg/L	6.47	6.48	6.5	6.4	7.8	7.6	7.8	7.5	7.5	--	7.6	7.6	7.29	7.3	7.6
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	0.17	0.18	0.21	0.22	0.192	0.184
pH_Field	SU	6.35	6.36	6.31	6.28	6.27	6.25	6.33	6.3	6.43	6.4	6.38	6.41	6.44	6.31	6.38
Sulfate	mg/L	39.9	42.2	42.7	45.5	39	41	37	43	41	--	42	41	47.2	51.8	45.2
TDS	mg/L	207	211	213	219	199	209	213	217	230	--	224	213	218	213	232
<b>Appendix IV</b>																
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium	mg/L	0.0847	0.0926	0.076	0.0727	0.0796	0.0663	0.0762	0.0671	--	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	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Combined Radium	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	--	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	<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	--	0.0183 J	0.0205 J	0.0195 J	<0.0203	0.0213	0.0204
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<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	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

Notes:  
 1. mg/L - Milligrams per Liter  
 2. pCi/L - picocuries per Liter  
 3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita

# Appendix B





# Appendix C

Alabama Power General Test Laboratory  
744 County Road 87, GSC#8  
Calera, AL 35040  
(205) 664-6032 or 6171  
FAX (205) 257-1654

## ***Field Case Narrative***



### **Miller Ash Pond**

#### **2022 Compliance Event 1**

All samples were collected using methods defined in Alabama Power's Water Field Group Low-Flow Groundwater Sampling Procedure and the associated site-specific Sampling and Analysis Plan (SAP).

Rainy conditions were present when pumping and sampling wells MW-6V, MW-4V, MW-1, MW-4, MW-31H, MW-9DR, MW-32H, MW-16, MW-23A, MW-18H, MW-7SR & MW-7DR.

Suspected iron bacteria was initially present when pumping wells MW-7SR, MW-15 & MW-33H.

Field quality control procedures were performed as follows:

- Blanks and Sample Duplicates were collected as described in the SAP.
- Calibration verification for all required field parameters were performed daily, before and after sample collection.





**Groundwater Field Parameters  
Plant Miller Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-7DR	Conductivity	3/8/2022 13:18	1585.27	uS/cm
MR-AP-MW-7DR	DO	3/8/2022 13:18	0.74	mg/L
MR-AP-MW-7DR	Depth to Water Detail	3/8/2022 13:18	76.64	ft
MR-AP-MW-7DR	Oxidation Reduction Potention	3/8/2022 13:18	-48.01	mv
MR-AP-MW-7DR	pH	3/8/2022 13:18	6.92	SU
MR-AP-MW-7DR	Temperature	3/8/2022 13:18	15.48	C
MR-AP-MW-7DR	Turbidity	3/8/2022 13:18	0.88	NTU
MR-AP-MW-7DR	Conductivity	3/8/2022 13:23	1509.76	uS/cm
MR-AP-MW-7DR	DO	3/8/2022 13:23	0.62	mg/L
MR-AP-MW-7DR	Depth to Water Detail	3/8/2022 13:23	76.64	ft
MR-AP-MW-7DR	Oxidation Reduction Potention	3/8/2022 13:23	-51.83	mv
MR-AP-MW-7DR	pH	3/8/2022 13:23	6.9	SU
MR-AP-MW-7DR	Temperature	3/8/2022 13:23	15.53	C
MR-AP-MW-7DR	Turbidity	3/8/2022 13:23	0.37	NTU
MR-AP-MW-7DR	Conductivity	3/8/2022 13:28	1399.41	uS/cm
MR-AP-MW-7DR	DO	3/8/2022 13:28	0.58	mg/L
MR-AP-MW-7DR	Depth to Water Detail	3/8/2022 13:28	76.64	ft
MR-AP-MW-7DR	Oxidation Reduction Potention	3/8/2022 13:28	-52.38	mv
MR-AP-MW-7DR	pH	3/8/2022 13:28	6.9	SU
MR-AP-MW-7DR	Temperature	3/8/2022 13:28	15.66	C
MR-AP-MW-7DR	Turbidity	3/8/2022 13:28	0.32	NTU
MR-AP-MW-7DR	Conductivity	3/8/2022 13:33	1276.7	uS/cm
MR-AP-MW-7DR	DO	3/8/2022 13:33	0.57	mg/L
MR-AP-MW-7DR	Depth to Water Detail	3/8/2022 13:33	76.64	ft
MR-AP-MW-7DR	Oxidation Reduction Potention	3/8/2022 13:33	-49.81	mv
MR-AP-MW-7DR	pH	3/8/2022 13:33	6.85	SU
MR-AP-MW-7DR	Temperature	3/8/2022 13:33	15.72	C
MR-AP-MW-7DR	Turbidity	3/8/2022 13:33	0.27	NTU
MR-AP-MW-7DR	Conductivity	3/8/2022 13:38	1233.88	uS/cm
MR-AP-MW-7DR	DO	3/8/2022 13:38	0.56	mg/L
MR-AP-MW-7DR	Depth to Water Detail	3/8/2022 13:38	76.64	ft
MR-AP-MW-7DR	Oxidation Reduction Potention	3/8/2022 13:38	-48.14	mv
MR-AP-MW-7DR	pH	3/8/2022 13:38	6.83	SU
MR-AP-MW-7DR	Temperature	3/8/2022 13:38	15.69	C
MR-AP-MW-7DR	Turbidity	3/8/2022 13:38	0.28	NTU
MR-AP-MW-7DR	Conductivity	3/8/2022 13:43	1223.41	uS/cm
MR-AP-MW-7DR	DO	3/8/2022 13:43	0.55	mg/L
MR-AP-MW-7DR	Depth to Water Detail	3/8/2022 13:43	76.64	ft
MR-AP-MW-7DR	Oxidation Reduction Potention	3/8/2022 13:43	-45.61	mv
MR-AP-MW-7DR	pH	3/8/2022 13:43	6.81	SU
MR-AP-MW-7DR	Temperature	3/8/2022 13:43	15.72	C
MR-AP-MW-7DR	Turbidity	3/8/2022 13:43	0.21	NTU

**Groundwater Field Parameters  
Plant Miller Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-7SR	Conductivity	3/8/2022 12:15	903.08	uS/cm
MR-AP-MW-7SR	DO	3/8/2022 12:15	1.7	mg/L
MR-AP-MW-7SR	Depth to Water Detail	3/8/2022 12:15	10.76	ft
MR-AP-MW-7SR	Oxidation Reduction Potention	3/8/2022 12:15	-39.27	mv
MR-AP-MW-7SR	pH	3/8/2022 12:15	6.74	SU
MR-AP-MW-7SR	Temperature	3/8/2022 12:15	14.61	C
MR-AP-MW-7SR	Turbidity	3/8/2022 12:15	13.5	NTU
MR-AP-MW-7SR	Conductivity	3/8/2022 12:20	904.54	uS/cm
MR-AP-MW-7SR	DO	3/8/2022 12:20	1.24	mg/L
MR-AP-MW-7SR	Depth to Water Detail	3/8/2022 12:20	10.78	ft
MR-AP-MW-7SR	Oxidation Reduction Potention	3/8/2022 12:20	-36.36	mv
MR-AP-MW-7SR	pH	3/8/2022 12:20	6.7	SU
MR-AP-MW-7SR	Temperature	3/8/2022 12:20	14.6	C
MR-AP-MW-7SR	Turbidity	3/8/2022 12:20	4.08	NTU
MR-AP-MW-7SR	Conductivity	3/8/2022 12:25	906.4	uS/cm
MR-AP-MW-7SR	DO	3/8/2022 12:25	0.89	mg/L
MR-AP-MW-7SR	Depth to Water Detail	3/8/2022 12:25	10.82	ft
MR-AP-MW-7SR	Oxidation Reduction Potention	3/8/2022 12:25	-36.78	mv
MR-AP-MW-7SR	pH	3/8/2022 12:25	6.69	SU
MR-AP-MW-7SR	Temperature	3/8/2022 12:25	14.79	C
MR-AP-MW-7SR	Turbidity	3/8/2022 12:25	4.32	NTU
MR-AP-MW-7SR	Conductivity	3/8/2022 12:30	906.22	uS/cm
MR-AP-MW-7SR	DO	3/8/2022 12:30	0.76	mg/L
MR-AP-MW-7SR	Depth to Water Detail	3/8/2022 12:30	10.84	ft
MR-AP-MW-7SR	Oxidation Reduction Potention	3/8/2022 12:30	-36.3	mv
MR-AP-MW-7SR	pH	3/8/2022 12:30	6.67	SU
MR-AP-MW-7SR	Temperature	3/8/2022 12:30	14.87	C
MR-AP-MW-7SR	Turbidity	3/8/2022 12:30	3.85	NTU
MR-AP-MW-7SR	Conductivity	3/8/2022 12:35	906.74	uS/cm
MR-AP-MW-7SR	DO	3/8/2022 12:35	0.62	mg/L
MR-AP-MW-7SR	Depth to Water Detail	3/8/2022 12:35	10.87	ft
MR-AP-MW-7SR	Oxidation Reduction Potention	3/8/2022 12:35	-37.68	mv
MR-AP-MW-7SR	pH	3/8/2022 12:35	6.62	SU
MR-AP-MW-7SR	Temperature	3/8/2022 12:35	14.77	C
MR-AP-MW-7SR	Turbidity	3/8/2022 12:35	3.36	NTU
MR-AP-MW-7SR	Conductivity	3/8/2022 12:40	907.58	uS/cm
MR-AP-MW-7SR	DO	3/8/2022 12:40	0.55	mg/L
MR-AP-MW-7SR	Depth to Water Detail	3/8/2022 12:40	10.88	ft
MR-AP-MW-7SR	Oxidation Reduction Potention	3/8/2022 12:40	-38.42	mv
MR-AP-MW-7SR	pH	3/8/2022 12:40	6.63	SU
MR-AP-MW-7SR	Temperature	3/8/2022 12:40	14.78	C
MR-AP-MW-7SR	Turbidity	3/8/2022 12:40	3.05	NTU
MR-AP-MW-7SR	Conductivity	3/8/2022 12:45	908.38	uS/cm
MR-AP-MW-7SR	DO	3/8/2022 12:45	0.49	mg/L
MR-AP-MW-7SR	Depth to Water Detail	3/8/2022 12:45	10.9	ft

**Groundwater Field Parameters  
Plant Miller Ash Pond**

<b>WELL ID</b>	<b>DESCRIPTION</b>	<b>TIME OF READING</b>	<b>VALUE</b>	<b>UNIT</b>
MR-AP-MW-7SR	Oxidation Reduction Potention	3/8/2022 12:45	-37.94	mv
MR-AP-MW-7SR	pH	3/8/2022 12:45	6.61	SU
MR-AP-MW-7SR	Temperature	3/8/2022 12:45	14.8	C
MR-AP-MW-7SR	Turbidity	3/8/2022 12:45	3.08	NTU



**Groundwater Field Parameters  
Plant Miller Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-17H	Conductivity	3/8/2022 8:36	432.76	uS/cm
MR-AP-MW-17H	DO	3/8/2022 8:36	0.4	mg/L
MR-AP-MW-17H	Depth to Water Detail	3/8/2022 8:36	21.73	ft
MR-AP-MW-17H	Oxidation Reduction Potential	3/8/2022 8:36	-49.79	mv
MR-AP-MW-17H	pH	3/8/2022 8:36	7.1	SU
MR-AP-MW-17H	Temperature	3/8/2022 8:36	16.22	C
MR-AP-MW-17H	Turbidity	3/8/2022 8:36	8.64	NTU
MR-AP-MW-17H	Conductivity	3/8/2022 8:41	432.8	uS/cm
MR-AP-MW-17H	DO	3/8/2022 8:41	0.35	mg/L
MR-AP-MW-17H	Depth to Water Detail	3/8/2022 8:41	21.73	ft
MR-AP-MW-17H	Oxidation Reduction Potential	3/8/2022 8:41	-53.88	mv
MR-AP-MW-17H	pH	3/8/2022 8:41	7.13	SU
MR-AP-MW-17H	Temperature	3/8/2022 8:41	16.18	C
MR-AP-MW-17H	Turbidity	3/8/2022 8:41	3.64	NTU
MR-AP-MW-17H	Conductivity	3/8/2022 8:46	445.49	uS/cm
MR-AP-MW-17H	DO	3/8/2022 8:46	0.33	mg/L
MR-AP-MW-17H	Depth to Water Detail	3/8/2022 8:46	21.73	ft
MR-AP-MW-17H	Oxidation Reduction Potential	3/8/2022 8:46	-54	mv
MR-AP-MW-17H	pH	3/8/2022 8:46	7.09	SU
MR-AP-MW-17H	Temperature	3/8/2022 8:46	16.2	C
MR-AP-MW-17H	Turbidity	3/8/2022 8:46	3.71	NTU
MR-AP-MW-17H	Conductivity	3/8/2022 8:51	481.3	uS/cm
MR-AP-MW-17H	DO	3/8/2022 8:51	0.33	mg/L
MR-AP-MW-17H	Depth to Water Detail	3/8/2022 8:51	21.73	ft
MR-AP-MW-17H	Oxidation Reduction Potential	3/8/2022 8:51	-53.08	mv
MR-AP-MW-17H	pH	3/8/2022 8:51	7.1	SU
MR-AP-MW-17H	Temperature	3/8/2022 8:51	16.12	C
MR-AP-MW-17H	Turbidity	3/8/2022 8:51	2.5	NTU
MR-AP-MW-17H	Conductivity	3/8/2022 8:56	548.45	uS/cm
MR-AP-MW-17H	DO	3/8/2022 8:56	0.34	mg/L
MR-AP-MW-17H	Depth to Water Detail	3/8/2022 8:56	21.73	ft
MR-AP-MW-17H	Oxidation Reduction Potential	3/8/2022 8:56	-49.48	mv
MR-AP-MW-17H	pH	3/8/2022 8:56	7.05	SU
MR-AP-MW-17H	Temperature	3/8/2022 8:56	16.23	C
MR-AP-MW-17H	Turbidity	3/8/2022 8:56	2.72	NTU
MR-AP-MW-17H	Conductivity	3/8/2022 9:01	609.91	uS/cm
MR-AP-MW-17H	DO	3/8/2022 9:01	0.32	mg/L
MR-AP-MW-17H	Depth to Water Detail	3/8/2022 9:01	21.73	ft
MR-AP-MW-17H	Oxidation Reduction Potential	3/8/2022 9:01	-50.52	mv
MR-AP-MW-17H	pH	3/8/2022 9:01	7.05	SU
MR-AP-MW-17H	Temperature	3/8/2022 9:01	16.13	C
MR-AP-MW-17H	Turbidity	3/8/2022 9:01	2.6	NTU
MR-AP-MW-17H	Conductivity	3/8/2022 9:06	628.01	uS/cm
MR-AP-MW-17H	DO	3/8/2022 9:06	0.33	mg/L
MR-AP-MW-17H	Depth to Water Detail	3/8/2022 9:06	21.73	ft

**Groundwater Field Parameters  
Plant Miller Ash Pond**

<b>WELL ID</b>	<b>DESCRIPTION</b>	<b>TIME OF READING</b>	<b>VALUE</b>	<b>UNIT</b>
MR-AP-MW-17H	Oxidation Reduction Potention	3/8/2022 9:06	-52.08	mv
MR-AP-MW-17H	pH	3/8/2022 9:06	7.04	SU
MR-AP-MW-17H	Temperature	3/8/2022 9:06	16.18	C
MR-AP-MW-17H	Turbidity	3/8/2022 9:06	2.07	NTU
MR-AP-MW-17H	Conductivity	3/8/2022 9:11	632.18	uS/cm
MR-AP-MW-17H	DO	3/8/2022 9:11	0.32	mg/L
MR-AP-MW-17H	Depth to Water Detail	3/8/2022 9:11	21.73	ft
MR-AP-MW-17H	Oxidation Reduction Potention	3/8/2022 9:11	-54.84	mv
MR-AP-MW-17H	pH	3/8/2022 9:11	7.07	SU
MR-AP-MW-17H	Temperature	3/8/2022 9:11	16.22	C
MR-AP-MW-17H	Turbidity	3/8/2022 9:11	1.89	NTU

**Groundwater Field Parameters  
Plant Miller Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-18H	Conductivity	3/8/2022 10:10	936.86	uS/cm
MR-AP-MW-18H	DO	3/8/2022 10:10	4.87	mg/L
MR-AP-MW-18H	Depth to Water Detail	3/8/2022 10:10	166.01	ft
MR-AP-MW-18H	Oxidation Reduction Potential	3/8/2022 10:10	-73.24	mv
MR-AP-MW-18H	pH	3/8/2022 10:10	7.46	SU
MR-AP-MW-18H	Temperature	3/8/2022 10:10	14.34	C
MR-AP-MW-18H	Turbidity	3/8/2022 10:10	0.86	NTU
MR-AP-MW-18H	Conductivity	3/8/2022 10:15	727.35	uS/cm
MR-AP-MW-18H	DO	3/8/2022 10:15	2.7	mg/L
MR-AP-MW-18H	Depth to Water Detail	3/8/2022 10:15	166.31	ft
MR-AP-MW-18H	Oxidation Reduction Potential	3/8/2022 10:15	-78.19	mv
MR-AP-MW-18H	pH	3/8/2022 10:15	7.52	SU
MR-AP-MW-18H	Temperature	3/8/2022 10:15	14.54	C
MR-AP-MW-18H	Turbidity	3/8/2022 10:15	0.74	NTU
MR-AP-MW-18H	Conductivity	3/8/2022 10:20	648.24	uS/cm
MR-AP-MW-18H	DO	3/8/2022 10:20	1.95	mg/L
MR-AP-MW-18H	Depth to Water Detail	3/8/2022 10:20	166.58	ft
MR-AP-MW-18H	Oxidation Reduction Potential	3/8/2022 10:20	-72.66	mv
MR-AP-MW-18H	pH	3/8/2022 10:20	7.51	SU
MR-AP-MW-18H	Temperature	3/8/2022 10:20	14.66	C
MR-AP-MW-18H	Turbidity	3/8/2022 10:20	0.56	NTU
MR-AP-MW-18H	Conductivity	3/8/2022 10:25	625.78	uS/cm
MR-AP-MW-18H	DO	3/8/2022 10:25	1.91	mg/L
MR-AP-MW-18H	Depth to Water Detail	3/8/2022 10:25	166.81	ft
MR-AP-MW-18H	Oxidation Reduction Potential	3/8/2022 10:25	-67.73	mv
MR-AP-MW-18H	pH	3/8/2022 10:25	7.49	SU
MR-AP-MW-18H	Temperature	3/8/2022 10:25	14.38	C
MR-AP-MW-18H	Turbidity	3/8/2022 10:25	0.52	NTU
MR-AP-MW-18H	Conductivity	3/8/2022 10:30	620.47	uS/cm
MR-AP-MW-18H	DO	3/8/2022 10:30	1.85	mg/L
MR-AP-MW-18H	Depth to Water Detail	3/8/2022 10:30	166.9	ft
MR-AP-MW-18H	Oxidation Reduction Potential	3/8/2022 10:30	-65.47	mv
MR-AP-MW-18H	pH	3/8/2022 10:30	7.52	SU
MR-AP-MW-18H	Temperature	3/8/2022 10:30	14.22	C
MR-AP-MW-18H	Turbidity	3/8/2022 10:30	0.87	NTU
MR-AP-MW-18H	Conductivity	3/8/2022 10:35	618.64	uS/cm
MR-AP-MW-18H	DO	3/8/2022 10:35	1.79	mg/L
MR-AP-MW-18H	Depth to Water Detail	3/8/2022 10:35	166.98	ft
MR-AP-MW-18H	Oxidation Reduction Potential	3/8/2022 10:35	-63.56	mv
MR-AP-MW-18H	pH	3/8/2022 10:35	7.5	SU
MR-AP-MW-18H	Temperature	3/8/2022 10:35	14.42	C
MR-AP-MW-18H	Turbidity	3/8/2022 10:35	0.47	NTU

**Groundwater Field Parameters  
Plant Miller Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-20H	Conductivity	3/9/2022 12:00	1499.66	uS/cm
MR-AP-MW-20H	DO	3/9/2022 12:00	2.63	mg/L
MR-AP-MW-20H	Depth to Water Detail	3/9/2022 12:00	122.54	ft
MR-AP-MW-20H	Oxidation Reduction Potential	3/9/2022 12:00	-101.8	mv
MR-AP-MW-20H	pH	3/9/2022 12:00	7.2	SU
MR-AP-MW-20H	Temperature	3/9/2022 12:00	15.29	C
MR-AP-MW-20H	Turbidity	3/9/2022 12:00	1.26	NTU
MR-AP-MW-20H	Conductivity	3/9/2022 12:05	1531.14	uS/cm
MR-AP-MW-20H	DO	3/9/2022 12:05	1.26	mg/L
MR-AP-MW-20H	Depth to Water Detail	3/9/2022 12:05	122.54	ft
MR-AP-MW-20H	Oxidation Reduction Potential	3/9/2022 12:05	-93.32	mv
MR-AP-MW-20H	pH	3/9/2022 12:05	7.29	SU
MR-AP-MW-20H	Temperature	3/9/2022 12:05	15.33	C
MR-AP-MW-20H	Turbidity	3/9/2022 12:05	1.08	NTU
MR-AP-MW-20H	Conductivity	3/9/2022 12:10	1524.4	uS/cm
MR-AP-MW-20H	DO	3/9/2022 12:10	1.05	mg/L
MR-AP-MW-20H	Depth to Water Detail	3/9/2022 12:10	122.54	ft
MR-AP-MW-20H	Oxidation Reduction Potential	3/9/2022 12:10	-91.63	mv
MR-AP-MW-20H	pH	3/9/2022 12:10	7.34	SU
MR-AP-MW-20H	Temperature	3/9/2022 12:10	15.47	C
MR-AP-MW-20H	Turbidity	3/9/2022 12:10	1.39	NTU
MR-AP-MW-20H	Conductivity	3/9/2022 12:15	1519.82	uS/cm
MR-AP-MW-20H	DO	3/9/2022 12:15	0.97	mg/L
MR-AP-MW-20H	Depth to Water Detail	3/9/2022 12:15	122.54	ft
MR-AP-MW-20H	Oxidation Reduction Potential	3/9/2022 12:15	-91.07	mv
MR-AP-MW-20H	pH	3/9/2022 12:15	7.34	SU
MR-AP-MW-20H	Temperature	3/9/2022 12:15	15.67	C
MR-AP-MW-20H	Turbidity	3/9/2022 12:15	0.97	NTU
MR-AP-MW-20H	Conductivity	3/9/2022 12:20	1514.71	uS/cm
MR-AP-MW-20H	DO	3/9/2022 12:20	0.94	mg/L
MR-AP-MW-20H	Depth to Water Detail	3/9/2022 12:20	122.54	ft
MR-AP-MW-20H	Oxidation Reduction Potential	3/9/2022 12:20	-92.09	mv
MR-AP-MW-20H	pH	3/9/2022 12:20	7.38	SU
MR-AP-MW-20H	Temperature	3/9/2022 12:20	15.65	C
MR-AP-MW-20H	Turbidity	3/9/2022 12:20	0.87	NTU

**Groundwater Field Parameters  
Plant Miller Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-20HS	Conductivity	3/9/2022 9:52	691.46	uS/cm
MR-AP-MW-20HS	DO	3/9/2022 9:52	0.41	mg/L
MR-AP-MW-20HS	Depth to Water Detail	3/9/2022 9:52	46.2	ft
MR-AP-MW-20HS	Oxidation Reduction Potential	3/9/2022 9:52	-77.83	mv
MR-AP-MW-20HS	pH	3/9/2022 9:52	6.78	SU
MR-AP-MW-20HS	Temperature	3/9/2022 9:52	16.48	C
MR-AP-MW-20HS	Turbidity	3/9/2022 9:52	0.76	NTU
MR-AP-MW-20HS	Conductivity	3/9/2022 9:57	686.02	uS/cm
MR-AP-MW-20HS	DO	3/9/2022 9:57	0.35	mg/L
MR-AP-MW-20HS	Depth to Water Detail	3/9/2022 9:57	48.68	ft
MR-AP-MW-20HS	Oxidation Reduction Potential	3/9/2022 9:57	-72.33	mv
MR-AP-MW-20HS	pH	3/9/2022 9:57	6.71	SU
MR-AP-MW-20HS	Temperature	3/9/2022 9:57	16.39	C
MR-AP-MW-20HS	Turbidity	3/9/2022 9:57	0.91	NTU
MR-AP-MW-20HS	Conductivity	3/9/2022 10:02	702.16	uS/cm
MR-AP-MW-20HS	DO	3/9/2022 10:02	0.33	mg/L
MR-AP-MW-20HS	Depth to Water Detail	3/9/2022 10:02	50.08	ft
MR-AP-MW-20HS	Oxidation Reduction Potential	3/9/2022 10:02	-67.74	mv
MR-AP-MW-20HS	pH	3/9/2022 10:02	6.65	SU
MR-AP-MW-20HS	Temperature	3/9/2022 10:02	16.47	C
MR-AP-MW-20HS	Turbidity	3/9/2022 10:02	0.75	NTU
MR-AP-MW-20HS	Conductivity	3/9/2022 10:07	720.22	uS/cm
MR-AP-MW-20HS	DO	3/9/2022 10:07	0.33	mg/L
MR-AP-MW-20HS	Depth to Water Detail	3/9/2022 10:07	50.71	ft
MR-AP-MW-20HS	Oxidation Reduction Potential	3/9/2022 10:07	-66.93	mv
MR-AP-MW-20HS	pH	3/9/2022 10:07	6.65	SU
MR-AP-MW-20HS	Temperature	3/9/2022 10:07	16.38	C
MR-AP-MW-20HS	Turbidity	3/9/2022 10:07	0.72	NTU
MR-AP-MW-20HS	Conductivity	3/9/2022 10:12	864.16	uS/cm
MR-AP-MW-20HS	DO	3/9/2022 10:12	0.32	mg/L
MR-AP-MW-20HS	Depth to Water Detail	3/9/2022 10:12	50.8	ft
MR-AP-MW-20HS	Oxidation Reduction Potential	3/9/2022 10:12	-66.72	mv
MR-AP-MW-20HS	pH	3/9/2022 10:12	6.7	SU
MR-AP-MW-20HS	Temperature	3/9/2022 10:12	16.48	C
MR-AP-MW-20HS	Turbidity	3/9/2022 10:12	0.71	NTU
MR-AP-MW-20HS	Conductivity	3/9/2022 10:17	924.59	uS/cm
MR-AP-MW-20HS	DO	3/9/2022 10:17	0.32	mg/L
MR-AP-MW-20HS	Depth to Water Detail	3/9/2022 10:17	50.86	ft
MR-AP-MW-20HS	Oxidation Reduction Potential	3/9/2022 10:17	-64.16	mv
MR-AP-MW-20HS	pH	3/9/2022 10:17	6.71	SU
MR-AP-MW-20HS	Temperature	3/9/2022 10:17	16.51	C
MR-AP-MW-20HS	Turbidity	3/9/2022 10:17	0.67	NTU
MR-AP-MW-20HS	Conductivity	3/9/2022 10:22	940.69	uS/cm
MR-AP-MW-20HS	DO	3/9/2022 10:22	0.32	mg/L
MR-AP-MW-20HS	Depth to Water Detail	3/9/2022 10:22	50.93	ft

**Groundwater Field Parameters  
Plant Miller Ash Pond**

<b>WELL ID</b>	<b>DESCRIPTION</b>	<b>TIME OF READING</b>	<b>VALUE</b>	<b>UNIT</b>
MR-AP-MW-20HS	Oxidation Reduction Potention	3/9/2022 10:22	-60.44	mv
MR-AP-MW-20HS	pH	3/9/2022 10:22	6.69	SU
MR-AP-MW-20HS	Temperature	3/9/2022 10:22	16.52	C
MR-AP-MW-20HS	Turbidity	3/9/2022 10:22	0.66	NTU
MR-AP-MW-20HS	Conductivity	3/9/2022 10:27	945.5	uS/cm
MR-AP-MW-20HS	DO	3/9/2022 10:27	0.32	mg/L
MR-AP-MW-20HS	Depth to Water Detail	3/9/2022 10:27	51	ft
MR-AP-MW-20HS	Oxidation Reduction Potention	3/9/2022 10:27	-59.85	mv
MR-AP-MW-20HS	pH	3/9/2022 10:27	6.71	SU
MR-AP-MW-20HS	Temperature	3/9/2022 10:27	16.45	C
MR-AP-MW-20HS	Turbidity	3/9/2022 10:27	0.58	NTU

**Groundwater Field Parameters  
Plant Miller Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-32H	Conductivity	3/9/2022 8:09	392.24	uS/cm
MR-AP-MW-32H	DO	3/9/2022 8:09	1.44	mg/L
MR-AP-MW-32H	Depth to Water Detail	3/9/2022 8:09	61.65	ft
MR-AP-MW-32H	Oxidation Reduction Potential	3/9/2022 8:09	-91.06	mv
MR-AP-MW-32H	pH	3/9/2022 8:09	7.35	SU
MR-AP-MW-32H	Temperature	3/9/2022 8:09	15.43	C
MR-AP-MW-32H	Turbidity	3/9/2022 8:09	0.87	NTU
MR-AP-MW-32H	Conductivity	3/9/2022 8:14	386.47	uS/cm
MR-AP-MW-32H	DO	3/9/2022 8:14	1	mg/L
MR-AP-MW-32H	Depth to Water Detail	3/9/2022 8:14	61.8	ft
MR-AP-MW-32H	Oxidation Reduction Potential	3/9/2022 8:14	-95.4	mv
MR-AP-MW-32H	pH	3/9/2022 8:14	7.36	SU
MR-AP-MW-32H	Temperature	3/9/2022 8:14	15.58	C
MR-AP-MW-32H	Turbidity	3/9/2022 8:14	0.82	NTU
MR-AP-MW-32H	Conductivity	3/9/2022 8:19	384.72	uS/cm
MR-AP-MW-32H	DO	3/9/2022 8:19	1.23	mg/L
MR-AP-MW-32H	Depth to Water Detail	3/9/2022 8:19	62.06	ft
MR-AP-MW-32H	Oxidation Reduction Potential	3/9/2022 8:19	-82.33	mv
MR-AP-MW-32H	pH	3/9/2022 8:19	7.35	SU
MR-AP-MW-32H	Temperature	3/9/2022 8:19	15.49	C
MR-AP-MW-32H	Turbidity	3/9/2022 8:19	1.02	NTU
MR-AP-MW-32H	Conductivity	3/9/2022 8:24	391.36	uS/cm
MR-AP-MW-32H	DO	3/9/2022 8:24	2.71	mg/L
MR-AP-MW-32H	Depth to Water Detail	3/9/2022 8:24	62.3	ft
MR-AP-MW-32H	Oxidation Reduction Potential	3/9/2022 8:24	-65.49	mv
MR-AP-MW-32H	pH	3/9/2022 8:24	7.35	SU
MR-AP-MW-32H	Temperature	3/9/2022 8:24	15.6	C
MR-AP-MW-32H	Turbidity	3/9/2022 8:24	0.97	NTU
MR-AP-MW-32H	Conductivity	3/9/2022 8:29	400.86	uS/cm
MR-AP-MW-32H	DO	3/9/2022 8:29	3.35	mg/L
MR-AP-MW-32H	Depth to Water Detail	3/9/2022 8:29	62.49	ft
MR-AP-MW-32H	Oxidation Reduction Potential	3/9/2022 8:29	-50.86	mv
MR-AP-MW-32H	pH	3/9/2022 8:29	7.32	SU
MR-AP-MW-32H	Temperature	3/9/2022 8:29	15.43	C
MR-AP-MW-32H	Turbidity	3/9/2022 8:29	0.88	NTU
MR-AP-MW-32H	Conductivity	3/9/2022 8:34	402.55	uS/cm
MR-AP-MW-32H	DO	3/9/2022 8:34	3.49	mg/L
MR-AP-MW-32H	Depth to Water Detail	3/9/2022 8:34	62.6	ft
MR-AP-MW-32H	Oxidation Reduction Potential	3/9/2022 8:34	-43.17	mv
MR-AP-MW-32H	pH	3/9/2022 8:34	7.33	SU
MR-AP-MW-32H	Temperature	3/9/2022 8:34	15.63	C
MR-AP-MW-32H	Turbidity	3/9/2022 8:34	0.86	NTU
MR-AP-MW-32H	Conductivity	3/9/2022 8:39	403.01	uS/cm
MR-AP-MW-32H	DO	3/9/2022 8:39	3.46	mg/L
MR-AP-MW-32H	Depth to Water Detail	3/9/2022 8:39	62.6	ft

**Groundwater Field Parameters  
Plant Miller Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-32H	Oxidation Reduction Potention	3/9/2022 8:39	-38.99	mv
MR-AP-MW-32H	pH	3/9/2022 8:39	7.35	SU
MR-AP-MW-32H	Temperature	3/9/2022 8:39	15.69	C
MR-AP-MW-32H	Turbidity	3/9/2022 8:39	1.14	NTU
MR-AP-MW-35H	Conductivity	3/8/2022 7:34	715.8	uS/cm
MR-AP-MW-35H	DO	3/8/2022 7:34	0.79	mg/L
MR-AP-MW-35H	Depth to Water Detail	3/8/2022 7:34	9.48	ft
MR-AP-MW-35H	Oxidation Reduction Potention	3/8/2022 7:34	-20.7	mv
MR-AP-MW-35H	pH	3/8/2022 7:34	7.22	SU
MR-AP-MW-35H	Temperature	3/8/2022 7:34	17.8	C
MR-AP-MW-35H	Turbidity	3/8/2022 7:34	0.97	NTU
MR-AP-MW-35H	Conductivity	3/8/2022 7:39	670.45	uS/cm
MR-AP-MW-35H	DO	3/8/2022 7:39	0.41	mg/L
MR-AP-MW-35H	Depth to Water Detail	3/8/2022 7:39	9.48	ft
MR-AP-MW-35H	Oxidation Reduction Potention	3/8/2022 7:39	-67.61	mv
MR-AP-MW-35H	pH	3/8/2022 7:39	6.99	SU
MR-AP-MW-35H	Temperature	3/8/2022 7:39	17.74	C
MR-AP-MW-35H	Turbidity	3/8/2022 7:39	0.93	NTU
MR-AP-MW-35H	Conductivity	3/8/2022 7:44	649.87	uS/cm
MR-AP-MW-35H	DO	3/8/2022 7:44	0.32	mg/L
MR-AP-MW-35H	Depth to Water Detail	3/8/2022 7:44	9.48	ft
MR-AP-MW-35H	Oxidation Reduction Potention	3/8/2022 7:44	-70.25	mv
MR-AP-MW-35H	pH	3/8/2022 7:44	6.87	SU
MR-AP-MW-35H	Temperature	3/8/2022 7:44	17.72	C
MR-AP-MW-35H	Turbidity	3/8/2022 7:44	0.97	NTU
MR-AP-MW-35H	Conductivity	3/8/2022 7:49	643.88	uS/cm
MR-AP-MW-35H	DO	3/8/2022 7:49	0.29	mg/L
MR-AP-MW-35H	Depth to Water Detail	3/8/2022 7:49	9.48	ft
MR-AP-MW-35H	Oxidation Reduction Potention	3/8/2022 7:49	-66	mv
MR-AP-MW-35H	pH	3/8/2022 7:49	6.78	SU
MR-AP-MW-35H	Temperature	3/8/2022 7:49	17.68	C
MR-AP-MW-35H	Turbidity	3/8/2022 7:49	0.89	NTU
MR-AP-MW-35H	Conductivity	3/8/2022 7:54	636.49	uS/cm
MR-AP-MW-35H	DO	3/8/2022 7:54	0.26	mg/L
MR-AP-MW-35H	Depth to Water Detail	3/8/2022 7:54	9.48	ft
MR-AP-MW-35H	Oxidation Reduction Potention	3/8/2022 7:54	-64.26	mv
MR-AP-MW-35H	pH	3/8/2022 7:54	6.77	SU
MR-AP-MW-35H	Temperature	3/8/2022 7:54	17.8	C
MR-AP-MW-35H	Turbidity	3/8/2022 7:54	0.65	NTU



**Groundwater Field Parameters  
Plant Miller Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-19HA	Conductivity	3/9/2022 9:40	1561.25	uS/cm
MR-AP-MW-19HA	DO	3/9/2022 9:40	0.37	mg/L
MR-AP-MW-19HA	Depth to Water Detail	3/9/2022 9:40	122.83	ft
MR-AP-MW-19HA	Oxidation Reduction Potention	3/9/2022 9:40	-306.35	mv
MR-AP-MW-19HA	pH	3/9/2022 9:40	7.98	SU
MR-AP-MW-19HA	Temperature	3/9/2022 9:40	17.03	C
MR-AP-MW-19HA	Turbidity	3/9/2022 9:40	2.51	NTU
MR-AP-MW-19HA	Conductivity	3/9/2022 9:45	1574.19	uS/cm
MR-AP-MW-19HA	DO	3/9/2022 9:45	0.27	mg/L
MR-AP-MW-19HA	Depth to Water Detail	3/9/2022 9:45	125.9	ft
MR-AP-MW-19HA	Oxidation Reduction Potention	3/9/2022 9:45	-315.93	mv
MR-AP-MW-19HA	pH	3/9/2022 9:45	7.98	SU
MR-AP-MW-19HA	Temperature	3/9/2022 9:45	16.98	C
MR-AP-MW-19HA	Turbidity	3/9/2022 9:45	0.98	NTU
MR-AP-MW-19HA	Conductivity	3/9/2022 9:50	1547.48	uS/cm
MR-AP-MW-19HA	DO	3/9/2022 9:50	0.26	mg/L
MR-AP-MW-19HA	Depth to Water Detail	3/9/2022 9:50	127.8	ft
MR-AP-MW-19HA	Oxidation Reduction Potention	3/9/2022 9:50	-313.05	mv
MR-AP-MW-19HA	pH	3/9/2022 9:50	7.89	SU
MR-AP-MW-19HA	Temperature	3/9/2022 9:50	17.05	C
MR-AP-MW-19HA	Turbidity	3/9/2022 9:50	0.87	NTU
MR-AP-MW-19HA	Conductivity	3/9/2022 9:55	1497.34	uS/cm
MR-AP-MW-19HA	DO	3/9/2022 9:55	0.26	mg/L
MR-AP-MW-19HA	Depth to Water Detail	3/9/2022 9:55	129.09	ft
MR-AP-MW-19HA	Oxidation Reduction Potention	3/9/2022 9:55	-312.13	mv
MR-AP-MW-19HA	pH	3/9/2022 9:55	7.86	SU
MR-AP-MW-19HA	Temperature	3/9/2022 9:55	16.88	C
MR-AP-MW-19HA	Turbidity	3/9/2022 9:55	0.98	NTU
MR-AP-MW-19HA	Conductivity	3/9/2022 10:00	1526.2	uS/cm
MR-AP-MW-19HA	DO	3/9/2022 10:00	0.24	mg/L
MR-AP-MW-19HA	Depth to Water Detail	3/9/2022 10:00	131.6	ft
MR-AP-MW-19HA	Oxidation Reduction Potention	3/9/2022 10:00	-313.44	mv
MR-AP-MW-19HA	pH	3/9/2022 10:00	7.87	SU
MR-AP-MW-19HA	Temperature	3/9/2022 10:00	17.08	C
MR-AP-MW-19HA	Turbidity	3/9/2022 10:00	0.96	NTU
MR-AP-MW-19HA	Conductivity	3/9/2022 10:05	1543.5	uS/cm
MR-AP-MW-19HA	DO	3/9/2022 10:05	0.24	mg/L
MR-AP-MW-19HA	Depth to Water Detail	3/9/2022 10:05	133.75	ft
MR-AP-MW-19HA	Oxidation Reduction Potention	3/9/2022 10:05	-312.41	mv
MR-AP-MW-19HA	pH	3/9/2022 10:05	7.85	SU
MR-AP-MW-19HA	Temperature	3/9/2022 10:05	17.12	C
MR-AP-MW-19HA	Turbidity	3/9/2022 10:05	0.69	NTU
MR-AP-MW-19HA	Conductivity	3/9/2022 10:10	1488.81	uS/cm
MR-AP-MW-19HA	DO	3/9/2022 10:10	0.23	mg/L
MR-AP-MW-19HA	Depth to Water Detail	3/9/2022 10:10	134.7	ft

**Groundwater Field Parameters  
Plant Miller Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-19HA	Oxidation Reduction Potention	3/9/2022 10:10	-314.74	mv
MR-AP-MW-19HA	pH	3/9/2022 10:10	7.87	SU
MR-AP-MW-19HA	Temperature	3/9/2022 10:10	17.11	C
MR-AP-MW-19HA	Turbidity	3/9/2022 10:10	1.4	NTU
MR-AP-MW-19HA	Conductivity	3/9/2022 10:15	1522.67	uS/cm
MR-AP-MW-19HA	DO	3/9/2022 10:15	0.23	mg/L
MR-AP-MW-19HA	Depth to Water Detail	3/9/2022 10:15	137.05	ft
MR-AP-MW-19HA	Oxidation Reduction Potention	3/9/2022 10:15	-314.87	mv
MR-AP-MW-19HA	pH	3/9/2022 10:15	7.86	SU
MR-AP-MW-19HA	Temperature	3/9/2022 10:15	17.17	C
MR-AP-MW-19HA	Turbidity	3/9/2022 10:15	3.75	NTU
MR-AP-MW-19HA	Conductivity	3/9/2022 10:20	1483.34	uS/cm
MR-AP-MW-19HA	DO	3/9/2022 10:20	0.23	mg/L
MR-AP-MW-19HA	Depth to Water Detail	3/9/2022 10:20	137.8	ft
MR-AP-MW-19HA	Oxidation Reduction Potention	3/9/2022 10:20	-317.42	mv
MR-AP-MW-19HA	pH	3/9/2022 10:20	7.89	SU
MR-AP-MW-19HA	Temperature	3/9/2022 10:20	17.12	C
MR-AP-MW-19HA	Turbidity	3/9/2022 10:20	2.46	NTU
MR-AP-MW-19HA	Conductivity	3/9/2022 10:25	1571.78	uS/cm
MR-AP-MW-19HA	DO	3/9/2022 10:25	0.23	mg/L
MR-AP-MW-19HA	Depth to Water Detail	3/9/2022 10:25	139.5	ft
MR-AP-MW-19HA	Oxidation Reduction Potention	3/9/2022 10:25	-317.74	mv
MR-AP-MW-19HA	pH	3/9/2022 10:25	7.89	SU
MR-AP-MW-19HA	Temperature	3/9/2022 10:25	17.11	C
MR-AP-MW-19HA	Turbidity	3/9/2022 10:25	0.69	NTU
MR-AP-MW-19HA	Conductivity	3/9/2022 10:30	1569.82	uS/cm
MR-AP-MW-19HA	DO	3/9/2022 10:30	0.22	mg/L
MR-AP-MW-19HA	Depth to Water Detail	3/9/2022 10:30	141.5	ft
MR-AP-MW-19HA	Oxidation Reduction Potention	3/9/2022 10:30	-319.74	mv
MR-AP-MW-19HA	pH	3/9/2022 10:30	7.91	SU
MR-AP-MW-19HA	Temperature	3/9/2022 10:30	17.09	C
MR-AP-MW-19HA	Turbidity	3/9/2022 10:30	0.75	NTU
MR-AP-MW-19HA	Conductivity	3/9/2022 10:35	1570.38	uS/cm
MR-AP-MW-19HA	DO	3/9/2022 10:35	0.22	mg/L
MR-AP-MW-19HA	Depth to Water Detail	3/9/2022 10:35	142.3	ft
MR-AP-MW-19HA	Oxidation Reduction Potention	3/9/2022 10:35	-320.15	mv
MR-AP-MW-19HA	pH	3/9/2022 10:35	7.91	SU
MR-AP-MW-19HA	Temperature	3/9/2022 10:35	17.12	C
MR-AP-MW-19HA	Turbidity	3/9/2022 10:35	0.82	NTU
MR-AP-MW-19HA	Conductivity	3/9/2022 10:40	1541.76	uS/cm
MR-AP-MW-19HA	DO	3/9/2022 10:40	0.21	mg/L
MR-AP-MW-19HA	Depth to Water Detail	3/9/2022 10:40	143.4	ft
MR-AP-MW-19HA	Oxidation Reduction Potention	3/9/2022 10:40	-320.59	mv
MR-AP-MW-19HA	pH	3/9/2022 10:40	7.91	SU
MR-AP-MW-19HA	Temperature	3/9/2022 10:40	17.13	C

**Groundwater Field Parameters  
Plant Miller Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-19HA	Turbidity	3/9/2022 10:40	1.66	NTU
MR-AP-MW-19HA	Conductivity	3/9/2022 10:45	1452.07	uS/cm
MR-AP-MW-19HA	DO	3/9/2022 10:45	0.21	mg/L
MR-AP-MW-19HA	Depth to Water Detail	3/9/2022 10:45	144.83	ft
MR-AP-MW-19HA	Oxidation Reduction Potention	3/9/2022 10:45	-322.44	mv
MR-AP-MW-19HA	pH	3/9/2022 10:45	7.93	SU
MR-AP-MW-19HA	Temperature	3/9/2022 10:45	17.14	C
MR-AP-MW-19HA	Turbidity	3/9/2022 10:45	0.8	NTU
MR-AP-MW-19HA	Conductivity	3/9/2022 10:50	1494.91	uS/cm
MR-AP-MW-19HA	DO	3/9/2022 10:50	0.22	mg/L
MR-AP-MW-19HA	Depth to Water Detail	3/9/2022 10:50	145.8	ft
MR-AP-MW-19HA	Oxidation Reduction Potention	3/9/2022 10:50	-321.04	mv
MR-AP-MW-19HA	pH	3/9/2022 10:50	7.93	SU
MR-AP-MW-19HA	Temperature	3/9/2022 10:50	17.1	C
MR-AP-MW-19HA	Turbidity	3/9/2022 10:50	0.91	NTU
MR-AP-MW-19HA	Conductivity	3/9/2022 10:55	1530.65	uS/cm
MR-AP-MW-19HA	DO	3/9/2022 10:55	0.21	mg/L
MR-AP-MW-19HA	Depth to Water Detail	3/9/2022 10:55	147.05	ft
MR-AP-MW-19HA	Oxidation Reduction Potention	3/9/2022 10:55	-323.96	mv
MR-AP-MW-19HA	pH	3/9/2022 10:55	7.96	SU
MR-AP-MW-19HA	Temperature	3/9/2022 10:55	17.18	C
MR-AP-MW-19HA	Turbidity	3/9/2022 10:55	0.85	NTU
MR-AP-MW-19HA	Conductivity	3/9/2022 11:00	1538.41	uS/cm
MR-AP-MW-19HA	DO	3/9/2022 11:00	0.22	mg/L
MR-AP-MW-19HA	Depth to Water Detail	3/9/2022 11:00	148.3	ft
MR-AP-MW-19HA	Oxidation Reduction Potention	3/9/2022 11:00	-322.23	mv
MR-AP-MW-19HA	pH	3/9/2022 11:00	7.94	SU
MR-AP-MW-19HA	Temperature	3/9/2022 11:00	17.23	C
MR-AP-MW-19HA	Turbidity	3/9/2022 11:00	0.87	NTU
MR-AP-MW-19HA	Conductivity	3/9/2022 11:05	1554.29	uS/cm
MR-AP-MW-19HA	DO	3/9/2022 11:05	0.2	mg/L
MR-AP-MW-19HA	Depth to Water Detail	3/9/2022 11:05	149.7	ft
MR-AP-MW-19HA	Oxidation Reduction Potention	3/9/2022 11:05	-323.79	mv
MR-AP-MW-19HA	pH	3/9/2022 11:05	7.96	SU
MR-AP-MW-19HA	Temperature	3/9/2022 11:05	17.18	C
MR-AP-MW-19HA	Turbidity	3/9/2022 11:05	0.95	NTU
MR-AP-MW-19HA	Conductivity	3/9/2022 11:10	1470.11	uS/cm
MR-AP-MW-19HA	DO	3/9/2022 11:10	0.28	mg/L
MR-AP-MW-19HA	Depth to Water Detail	3/9/2022 11:10	149.4	ft
MR-AP-MW-19HA	Oxidation Reduction Potention	3/9/2022 11:10	-322.81	mv
MR-AP-MW-19HA	pH	3/9/2022 11:10	7.97	SU
MR-AP-MW-19HA	Temperature	3/9/2022 11:10	17.03	C
MR-AP-MW-19HA	Turbidity	3/9/2022 11:10	0.97	NTU
MR-AP-MW-19HA	Conductivity	3/9/2022 11:15	1565.86	uS/cm
MR-AP-MW-19HA	DO	3/9/2022 11:15	0.28	mg/L

**Groundwater Field Parameters  
Plant Miller Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-19HA	Depth to Water Detail	3/9/2022 11:15	149.4	ft
MR-AP-MW-19HA	Oxidation Reduction Potention	3/9/2022 11:15	-323.37	mv
MR-AP-MW-19HA	pH	3/9/2022 11:15	7.98	SU
MR-AP-MW-19HA	Temperature	3/9/2022 11:15	17.06	C
MR-AP-MW-19HA	Turbidity	3/9/2022 11:15	1.03	NTU
MR-AP-MW-19HA	Conductivity	3/9/2022 11:20	1586.87	uS/cm
MR-AP-MW-19HA	DO	3/9/2022 11:20	0.31	mg/L
MR-AP-MW-19HA	Depth to Water Detail	3/9/2022 11:20	149.4	ft
MR-AP-MW-19HA	Oxidation Reduction Potention	3/9/2022 11:20	-323.28	mv
MR-AP-MW-19HA	pH	3/9/2022 11:20	7.98	SU
MR-AP-MW-19HA	Temperature	3/9/2022 11:20	17.05	C
MR-AP-MW-19HA	Turbidity	3/9/2022 11:20	1.1	NTU
MR-AP-MW-19HA	Conductivity	3/9/2022 11:25	1577.1	uS/cm
MR-AP-MW-19HA	DO	3/9/2022 11:25	0.32	mg/L
MR-AP-MW-19HA	Depth to Water Detail	3/9/2022 11:25	149.4	ft
MR-AP-MW-19HA	Oxidation Reduction Potention	3/9/2022 11:25	-323.59	mv
MR-AP-MW-19HA	pH	3/9/2022 11:25	8.02	SU
MR-AP-MW-19HA	Temperature	3/9/2022 11:25	17	C
MR-AP-MW-19HA	Turbidity	3/9/2022 11:25	1.22	NTU
MR-AP-MW-19HA	Conductivity	3/9/2022 11:30	1490.46	uS/cm
MR-AP-MW-19HA	DO	3/9/2022 11:30	0.42	mg/L
MR-AP-MW-19HA	Depth to Water Detail	3/9/2022 11:30	149.4	ft
MR-AP-MW-19HA	Oxidation Reduction Potention	3/9/2022 11:30	-322.2	mv
MR-AP-MW-19HA	pH	3/9/2022 11:30	8.04	SU
MR-AP-MW-19HA	Temperature	3/9/2022 11:30	16.79	C
MR-AP-MW-19HA	Turbidity	3/9/2022 11:30	1.24	NTU
MR-AP-MW-19HA	Conductivity	3/9/2022 11:35	1550.29	uS/cm
MR-AP-MW-19HA	DO	3/9/2022 11:35	0.31	mg/L
MR-AP-MW-19HA	Depth to Water Detail	3/9/2022 11:35	148.8	ft
MR-AP-MW-19HA	Oxidation Reduction Potention	3/9/2022 11:35	-323.05	mv
MR-AP-MW-19HA	pH	3/9/2022 11:35	8.03	SU
MR-AP-MW-19HA	Temperature	3/9/2022 11:35	17.03	C
MR-AP-MW-19HA	Turbidity	3/9/2022 11:35	1.31	NTU
MR-AP-MW-19HA	Conductivity	3/9/2022 11:40	1558.26	uS/cm
MR-AP-MW-19HA	DO	3/9/2022 11:40	0.31	mg/L
MR-AP-MW-19HA	Depth to Water Detail	3/9/2022 11:40	148.65	ft
MR-AP-MW-19HA	Oxidation Reduction Potention	3/9/2022 11:40	-325.26	mv
MR-AP-MW-19HA	pH	3/9/2022 11:40	8.07	SU
MR-AP-MW-19HA	Temperature	3/9/2022 11:40	16.98	C
MR-AP-MW-19HA	Turbidity	3/9/2022 11:40	1.53	NTU

**Groundwater Field Parameters  
Plant Miller Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-34H	Conductivity	3/9/2022 12:42	2543.34	uS/cm
MR-AP-MW-34H	DO	3/9/2022 12:42	0.38	mg/L
MR-AP-MW-34H	Depth to Water Detail	3/9/2022 12:42	155.4	ft
MR-AP-MW-34H	Oxidation Reduction Potention	3/9/2022 12:42	-298.08	mv
MR-AP-MW-34H	pH	3/9/2022 12:42	7.91	SU
MR-AP-MW-34H	Temperature	3/9/2022 12:42	16.17	C
MR-AP-MW-34H	Turbidity	3/9/2022 12:42	2.1	NTU
MR-AP-MW-34H	Conductivity	3/9/2022 12:47	2548.46	uS/cm
MR-AP-MW-34H	DO	3/9/2022 12:47	0.28	mg/L
MR-AP-MW-34H	Depth to Water Detail	3/9/2022 12:47	158.05	ft
MR-AP-MW-34H	Oxidation Reduction Potention	3/9/2022 12:47	-305.4	mv
MR-AP-MW-34H	pH	3/9/2022 12:47	7.91	SU
MR-AP-MW-34H	Temperature	3/9/2022 12:47	16.33	C
MR-AP-MW-34H	Turbidity	3/9/2022 12:47	1.95	NTU
MR-AP-MW-34H	Conductivity	3/9/2022 12:52	2474.44	uS/cm
MR-AP-MW-34H	DO	3/9/2022 12:52	0.25	mg/L
MR-AP-MW-34H	Depth to Water Detail	3/9/2022 12:52	159.85	ft
MR-AP-MW-34H	Oxidation Reduction Potention	3/9/2022 12:52	-309.03	mv
MR-AP-MW-34H	pH	3/9/2022 12:52	7.92	SU
MR-AP-MW-34H	Temperature	3/9/2022 12:52	16.37	C
MR-AP-MW-34H	Turbidity	3/9/2022 12:52	1.6	NTU
MR-AP-MW-34H	Conductivity	3/9/2022 12:57	2371.69	uS/cm
MR-AP-MW-34H	DO	3/9/2022 12:57	0.25	mg/L
MR-AP-MW-34H	Depth to Water Detail	3/9/2022 12:57	160.42	ft
MR-AP-MW-34H	Oxidation Reduction Potention	3/9/2022 12:57	-310.46	mv
MR-AP-MW-34H	pH	3/9/2022 12:57	7.94	SU
MR-AP-MW-34H	Temperature	3/9/2022 12:57	16.26	C
MR-AP-MW-34H	Turbidity	3/9/2022 12:57	1.62	NTU
MR-AP-MW-34H	Conductivity	3/9/2022 13:02	2261.93	uS/cm
MR-AP-MW-34H	DO	3/9/2022 13:02	0.22	mg/L
MR-AP-MW-34H	Depth to Water Detail	3/9/2022 13:02	161.1	ft
MR-AP-MW-34H	Oxidation Reduction Potention	3/9/2022 13:02	-311.15	mv
MR-AP-MW-34H	pH	3/9/2022 13:02	7.95	SU
MR-AP-MW-34H	Temperature	3/9/2022 13:02	16.32	C
MR-AP-MW-34H	Turbidity	3/9/2022 13:02	2.01	NTU
MR-AP-MW-34H	Conductivity	3/9/2022 13:07	2173.97	uS/cm
MR-AP-MW-34H	DO	3/9/2022 13:07	0.23	mg/L
MR-AP-MW-34H	Depth to Water Detail	3/9/2022 13:07	161.9	ft
MR-AP-MW-34H	Oxidation Reduction Potention	3/9/2022 13:07	-311.88	mv
MR-AP-MW-34H	pH	3/9/2022 13:07	7.98	SU
MR-AP-MW-34H	Temperature	3/9/2022 13:07	16.33	C
MR-AP-MW-34H	Turbidity	3/9/2022 13:07	2.01	NTU
MR-AP-MW-34H	Conductivity	3/9/2022 13:12	2089.98	uS/cm
MR-AP-MW-34H	DO	3/9/2022 13:12	0.28	mg/L
MR-AP-MW-34H	Depth to Water Detail	3/9/2022 13:12	161.9	ft

**Groundwater Field Parameters  
Plant Miller Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-34H	Oxidation Reduction Potention	3/9/2022 13:12	-310.21	mv
MR-AP-MW-34H	pH	3/9/2022 13:12	7.99	SU
MR-AP-MW-34H	Temperature	3/9/2022 13:12	16.17	C
MR-AP-MW-34H	Turbidity	3/9/2022 13:12	2.32	NTU
MR-AP-MW-34H	Conductivity	3/9/2022 13:17	2086.75	uS/cm
MR-AP-MW-34H	DO	3/9/2022 13:17	0.27	mg/L
MR-AP-MW-34H	Depth to Water Detail	3/9/2022 13:17	161.9	ft
MR-AP-MW-34H	Oxidation Reduction Potention	3/9/2022 13:17	-311.01	mv
MR-AP-MW-34H	pH	3/9/2022 13:17	8.01	SU
MR-AP-MW-34H	Temperature	3/9/2022 13:17	16.2	C
MR-AP-MW-34H	Turbidity	3/9/2022 13:17	1.96	NTU
MR-AP-MW-34H	Conductivity	3/9/2022 13:22	1970.66	uS/cm
MR-AP-MW-34H	DO	3/9/2022 13:22	0.28	mg/L
MR-AP-MW-34H	Depth to Water Detail	3/9/2022 13:22	161.9	ft
MR-AP-MW-34H	Oxidation Reduction Potention	3/9/2022 13:22	-309.51	mv
MR-AP-MW-34H	pH	3/9/2022 13:22	8.04	SU
MR-AP-MW-34H	Temperature	3/9/2022 13:22	16.19	C
MR-AP-MW-34H	Turbidity	3/9/2022 13:22	2.53	NTU
MR-AP-MW-34H	Conductivity	3/9/2022 13:27	1867.77	uS/cm
MR-AP-MW-34H	DO	3/9/2022 13:27	0.27	mg/L
MR-AP-MW-34H	Depth to Water Detail	3/9/2022 13:27	161.9	ft
MR-AP-MW-34H	Oxidation Reduction Potention	3/9/2022 13:27	-309.09	mv
MR-AP-MW-34H	pH	3/9/2022 13:27	8.05	SU
MR-AP-MW-34H	Temperature	3/9/2022 13:27	16.17	C
MR-AP-MW-34H	Turbidity	3/9/2022 13:27	2.25	NTU
MR-AP-MW-34H	Conductivity	3/9/2022 13:32	1778.58	uS/cm
MR-AP-MW-34H	DO	3/9/2022 13:32	0.29	mg/L
MR-AP-MW-34H	Depth to Water Detail	3/9/2022 13:32	161.9	ft
MR-AP-MW-34H	Oxidation Reduction Potention	3/9/2022 13:32	-307.98	mv
MR-AP-MW-34H	pH	3/9/2022 13:32	8.05	SU
MR-AP-MW-34H	Temperature	3/9/2022 13:32	16.19	C
MR-AP-MW-34H	Turbidity	3/9/2022 13:32	2.35	NTU
MR-AP-MW-34H	Conductivity	3/9/2022 13:37	1717.35	uS/cm
MR-AP-MW-34H	DO	3/9/2022 13:37	0.27	mg/L
MR-AP-MW-34H	Depth to Water Detail	3/9/2022 13:37	161.9	ft
MR-AP-MW-34H	Oxidation Reduction Potention	3/9/2022 13:37	-308.41	mv
MR-AP-MW-34H	pH	3/9/2022 13:37	8.06	SU
MR-AP-MW-34H	Temperature	3/9/2022 13:37	16.26	C
MR-AP-MW-34H	Turbidity	3/9/2022 13:37	2.27	NTU
MR-AP-MW-34H	Conductivity	3/9/2022 13:42	1654.92	uS/cm
MR-AP-MW-34H	DO	3/9/2022 13:42	0.27	mg/L
MR-AP-MW-34H	Depth to Water Detail	3/9/2022 13:42	159.9	ft
MR-AP-MW-34H	Oxidation Reduction Potention	3/9/2022 13:42	-308.13	mv
MR-AP-MW-34H	pH	3/9/2022 13:42	8.07	SU
MR-AP-MW-34H	Temperature	3/9/2022 13:42	16.25	C

**Groundwater Field Parameters  
Plant Miller Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-34H	Turbidity	3/9/2022 13:42	2.44	NTU
MR-AP-MW-34H	Conductivity	3/9/2022 13:47	1608.75	uS/cm
MR-AP-MW-34H	DO	3/9/2022 13:47	0.26	mg/L
MR-AP-MW-34H	Depth to Water Detail	3/9/2022 13:47	159.9	ft
MR-AP-MW-34H	Oxidation Reduction Potention	3/9/2022 13:47	-307.88	mv
MR-AP-MW-34H	pH	3/9/2022 13:47	8.07	SU
MR-AP-MW-34H	Temperature	3/9/2022 13:47	16.2	C
MR-AP-MW-34H	Turbidity	3/9/2022 13:47	2.62	NTU
MR-AP-MW-34H	Conductivity	3/9/2022 13:52	1575.59	uS/cm
MR-AP-MW-34H	DO	3/9/2022 13:52	0.27	mg/L
MR-AP-MW-34H	Depth to Water Detail	3/9/2022 13:52	159.9	ft
MR-AP-MW-34H	Oxidation Reduction Potention	3/9/2022 13:52	-308.05	mv
MR-AP-MW-34H	pH	3/9/2022 13:52	8.07	SU
MR-AP-MW-34H	Temperature	3/9/2022 13:52	16.19	C
MR-AP-MW-34H	Turbidity	3/9/2022 13:52	2.81	NTU
MR-AP-MW-34H	Conductivity	3/9/2022 13:57	1525.53	uS/cm
MR-AP-MW-34H	DO	3/9/2022 13:57	0.28	mg/L
MR-AP-MW-34H	Depth to Water Detail	3/9/2022 13:57	159.9	ft
MR-AP-MW-34H	Oxidation Reduction Potention	3/9/2022 13:57	-307.09	mv
MR-AP-MW-34H	pH	3/9/2022 13:57	8.07	SU
MR-AP-MW-34H	Temperature	3/9/2022 13:57	16.08	C
MR-AP-MW-34H	Turbidity	3/9/2022 13:57	2.7	NTU
MR-AP-MW-34H	Conductivity	3/9/2022 14:02	1488.56	uS/cm
MR-AP-MW-34H	DO	3/9/2022 14:02	0.26	mg/L
MR-AP-MW-34H	Depth to Water Detail	3/9/2022 14:02	159.9	ft
MR-AP-MW-34H	Oxidation Reduction Potention	3/9/2022 14:02	-307.95	mv
MR-AP-MW-34H	pH	3/9/2022 14:02	8.08	SU
MR-AP-MW-34H	Temperature	3/9/2022 14:02	16.21	C
MR-AP-MW-34H	Turbidity	3/9/2022 14:02	3.76	NTU
MR-AP-MW-34H	Conductivity	3/9/2022 14:07	1448.96	uS/cm
MR-AP-MW-34H	DO	3/9/2022 14:07	0.26	mg/L
MR-AP-MW-34H	Depth to Water Detail	3/9/2022 14:07	159.9	ft
MR-AP-MW-34H	Oxidation Reduction Potention	3/9/2022 14:07	-307.4	mv
MR-AP-MW-34H	pH	3/9/2022 14:07	8.08	SU
MR-AP-MW-34H	Temperature	3/9/2022 14:07	16.21	C
MR-AP-MW-34H	Turbidity	3/9/2022 14:07	3.13	NTU
MR-AP-MW-34H	Conductivity	3/9/2022 14:12	1427	uS/cm
MR-AP-MW-34H	DO	3/9/2022 14:12	0.26	mg/L
MR-AP-MW-34H	Depth to Water Detail	3/9/2022 14:12	159.9	ft
MR-AP-MW-34H	Oxidation Reduction Potention	3/9/2022 14:12	-308.08	mv
MR-AP-MW-34H	pH	3/9/2022 14:12	8.09	SU
MR-AP-MW-34H	Temperature	3/9/2022 14:12	16.12	C
MR-AP-MW-34H	Turbidity	3/9/2022 14:12	3.13	NTU

**Groundwater Field Parameters  
Plant Miller Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-9DR	Conductivity	3/8/2022 10:27	801.93	uS/cm
MR-AP-MW-9DR	DO	3/8/2022 10:27	0.36	mg/L
MR-AP-MW-9DR	Depth to Water Detail	3/8/2022 10:27	72.41	ft
MR-AP-MW-9DR	Oxidation Reduction Potention	3/8/2022 10:27	-68.89	mv
MR-AP-MW-9DR	pH	3/8/2022 10:27	6.72	SU
MR-AP-MW-9DR	Temperature	3/8/2022 10:27	16.87	C
MR-AP-MW-9DR	Turbidity	3/8/2022 10:27	3.5	NTU
MR-AP-MW-9DR	Conductivity	3/8/2022 10:32	796.96	uS/cm
MR-AP-MW-9DR	DO	3/8/2022 10:32	0.31	mg/L
MR-AP-MW-9DR	Depth to Water Detail	3/8/2022 10:32	72.8	ft
MR-AP-MW-9DR	Oxidation Reduction Potention	3/8/2022 10:32	-69	mv
MR-AP-MW-9DR	pH	3/8/2022 10:32	6.73	SU
MR-AP-MW-9DR	Temperature	3/8/2022 10:32	16.9	C
MR-AP-MW-9DR	Turbidity	3/8/2022 10:32	3.34	NTU
MR-AP-MW-9DR	Conductivity	3/8/2022 10:37	793.97	uS/cm
MR-AP-MW-9DR	DO	3/8/2022 10:37	0.31	mg/L
MR-AP-MW-9DR	Depth to Water Detail	3/8/2022 10:37	73.09	ft
MR-AP-MW-9DR	Oxidation Reduction Potention	3/8/2022 10:37	-67.33	mv
MR-AP-MW-9DR	pH	3/8/2022 10:37	6.73	SU
MR-AP-MW-9DR	Temperature	3/8/2022 10:37	17.1	C
MR-AP-MW-9DR	Turbidity	3/8/2022 10:37	2.07	NTU
MR-AP-MW-9DR	Conductivity	3/8/2022 10:42	792.13	uS/cm
MR-AP-MW-9DR	DO	3/8/2022 10:42	0.31	mg/L
MR-AP-MW-9DR	Depth to Water Detail	3/8/2022 10:42	73.36	ft
MR-AP-MW-9DR	Oxidation Reduction Potention	3/8/2022 10:42	-67.05	mv
MR-AP-MW-9DR	pH	3/8/2022 10:42	6.74	SU
MR-AP-MW-9DR	Temperature	3/8/2022 10:42	17.09	C
MR-AP-MW-9DR	Turbidity	3/8/2022 10:42	2.31	NTU
MR-AP-MW-9DR	Conductivity	3/8/2022 10:47	791.21	uS/cm
MR-AP-MW-9DR	DO	3/8/2022 10:47	0.3	mg/L
MR-AP-MW-9DR	Depth to Water Detail	3/8/2022 10:47	73.59	ft
MR-AP-MW-9DR	Oxidation Reduction Potention	3/8/2022 10:47	-66.65	mv
MR-AP-MW-9DR	pH	3/8/2022 10:47	6.75	SU
MR-AP-MW-9DR	Temperature	3/8/2022 10:47	17.11	C
MR-AP-MW-9DR	Turbidity	3/8/2022 10:47	2.24	NTU
MR-AP-MW-9DR	Conductivity	3/8/2022 10:52	790.22	uS/cm
MR-AP-MW-9DR	DO	3/8/2022 10:52	0.29	mg/L
MR-AP-MW-9DR	Depth to Water Detail	3/8/2022 10:52	73.79	ft
MR-AP-MW-9DR	Oxidation Reduction Potention	3/8/2022 10:52	-65.73	mv
MR-AP-MW-9DR	pH	3/8/2022 10:52	6.74	SU
MR-AP-MW-9DR	Temperature	3/8/2022 10:52	17.09	C
MR-AP-MW-9DR	Turbidity	3/8/2022 10:52	2.22	NTU
MR-AP-MW-9DR	Conductivity	3/8/2022 10:57	788.53	uS/cm
MR-AP-MW-9DR	DO	3/8/2022 10:57	0.29	mg/L
MR-AP-MW-9DR	Depth to Water Detail	3/8/2022 10:57	73.86	ft



**Groundwater Field Parameters  
Plant Miller Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-9DR	Oxidation Reduction Potention	3/8/2022 10:57	-65.08	mv
MR-AP-MW-9DR	pH	3/8/2022 10:57	6.75	SU
MR-AP-MW-9DR	Temperature	3/8/2022 10:57	17.11	C
MR-AP-MW-9DR	Turbidity	3/8/2022 10:57	1.98	NTU
MR-AP-MW-9SR	Conductivity	3/8/2022 9:15	985.28	uS/cm
MR-AP-MW-9SR	DO	3/8/2022 9:15	0.61	mg/L
MR-AP-MW-9SR	Depth to Water Detail	3/8/2022 9:15	70.54	ft
MR-AP-MW-9SR	Oxidation Reduction Potention	3/8/2022 9:15	21.56	mv
MR-AP-MW-9SR	pH	3/8/2022 9:15	6.19	SU
MR-AP-MW-9SR	Temperature	3/8/2022 9:15	16.77	C
MR-AP-MW-9SR	Turbidity	3/8/2022 9:15	13.3	NTU
MR-AP-MW-9SR	Conductivity	3/8/2022 9:20	958.6	uS/cm
MR-AP-MW-9SR	DO	3/8/2022 9:20	0.49	mg/L
MR-AP-MW-9SR	Depth to Water Detail	3/8/2022 9:20	70.96	ft
MR-AP-MW-9SR	Oxidation Reduction Potention	3/8/2022 9:20	6.28	mv
MR-AP-MW-9SR	pH	3/8/2022 9:20	6.21	SU
MR-AP-MW-9SR	Temperature	3/8/2022 9:20	16.89	C
MR-AP-MW-9SR	Turbidity	3/8/2022 9:20	10.48	NTU
MR-AP-MW-9SR	Conductivity	3/8/2022 9:25	941.75	uS/cm
MR-AP-MW-9SR	DO	3/8/2022 9:25	0.45	mg/L
MR-AP-MW-9SR	Depth to Water Detail	3/8/2022 9:25	71.31	ft
MR-AP-MW-9SR	Oxidation Reduction Potention	3/8/2022 9:25	3.2	mv
MR-AP-MW-9SR	pH	3/8/2022 9:25	6.24	SU
MR-AP-MW-9SR	Temperature	3/8/2022 9:25	16.99	C
MR-AP-MW-9SR	Turbidity	3/8/2022 9:25	7.73	NTU
MR-AP-MW-9SR	Conductivity	3/8/2022 9:30	926.06	uS/cm
MR-AP-MW-9SR	DO	3/8/2022 9:30	0.44	mg/L
MR-AP-MW-9SR	Depth to Water Detail	3/8/2022 9:30	71.42	ft
MR-AP-MW-9SR	Oxidation Reduction Potention	3/8/2022 9:30	-0.13	mv
MR-AP-MW-9SR	pH	3/8/2022 9:30	6.26	SU
MR-AP-MW-9SR	Temperature	3/8/2022 9:30	16.98	C
MR-AP-MW-9SR	Turbidity	3/8/2022 9:30	7.83	NTU
MR-AP-MW-9SR	Conductivity	3/8/2022 9:35	911.52	uS/cm
MR-AP-MW-9SR	DO	3/8/2022 9:35	0.46	mg/L
MR-AP-MW-9SR	Depth to Water Detail	3/8/2022 9:35	71.58	ft
MR-AP-MW-9SR	Oxidation Reduction Potention	3/8/2022 9:35	-2.64	mv
MR-AP-MW-9SR	pH	3/8/2022 9:35	6.28	SU
MR-AP-MW-9SR	Temperature	3/8/2022 9:35	17.08	C
MR-AP-MW-9SR	Turbidity	3/8/2022 9:35	4.99	NTU

**Groundwater Field Parameters  
Plant Miller Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-13DR	Conductivity	3/9/2022 12:29	1276.77	uS/cm
MR-AP-MW-13DR	DO	3/9/2022 12:29	0.16	mg/L
MR-AP-MW-13DR	Depth to Water Detail	3/9/2022 12:29	83.98	ft
MR-AP-MW-13DR	Oxidation Reduction Potention	3/9/2022 12:29	-19.51	mv
MR-AP-MW-13DR	pH	3/9/2022 12:29	6.99	SU
MR-AP-MW-13DR	Temperature	3/9/2022 12:29	18.93	C
MR-AP-MW-13DR	Turbidity	3/9/2022 12:29	1.17	NTU
MR-AP-MW-13DR	Conductivity	3/9/2022 12:34	1092.44	uS/cm
MR-AP-MW-13DR	DO	3/9/2022 12:34	0.15	mg/L
MR-AP-MW-13DR	Depth to Water Detail	3/9/2022 12:34	86.81	ft
MR-AP-MW-13DR	Oxidation Reduction Potention	3/9/2022 12:34	-14.71	mv
MR-AP-MW-13DR	pH	3/9/2022 12:34	6.98	SU
MR-AP-MW-13DR	Temperature	3/9/2022 12:34	18.92	C
MR-AP-MW-13DR	Turbidity	3/9/2022 12:34	2.2	NTU
MR-AP-MW-13DR	Conductivity	3/9/2022 12:39	731.41	uS/cm
MR-AP-MW-13DR	DO	3/9/2022 12:39	0.5	mg/L
MR-AP-MW-13DR	Depth to Water Detail	3/9/2022 12:39	89.92	ft
MR-AP-MW-13DR	Oxidation Reduction Potention	3/9/2022 12:39	11.29	mv
MR-AP-MW-13DR	pH	3/9/2022 12:39	6.95	SU
MR-AP-MW-13DR	Temperature	3/9/2022 12:39	18.87	C
MR-AP-MW-13DR	Turbidity	3/9/2022 12:39	2.08	NTU
MR-AP-MW-13DR	Conductivity	3/9/2022 12:44	751.75	uS/cm
MR-AP-MW-13DR	DO	3/9/2022 12:44	0.52	mg/L
MR-AP-MW-13DR	Depth to Water Detail	3/9/2022 12:44	92.86	ft
MR-AP-MW-13DR	Oxidation Reduction Potention	3/9/2022 12:44	15.79	mv
MR-AP-MW-13DR	pH	3/9/2022 12:44	6.93	SU
MR-AP-MW-13DR	Temperature	3/9/2022 12:44	19.07	C
MR-AP-MW-13DR	Turbidity	3/9/2022 12:44	1.97	NTU
MR-AP-MW-13DR	Conductivity	3/9/2022 12:49	747.63	uS/cm
MR-AP-MW-13DR	DO	3/9/2022 12:49	0.52	mg/L
MR-AP-MW-13DR	Depth to Water Detail	3/9/2022 12:49	95.92	ft
MR-AP-MW-13DR	Oxidation Reduction Potention	3/9/2022 12:49	14.18	mv
MR-AP-MW-13DR	pH	3/9/2022 12:49	6.95	SU
MR-AP-MW-13DR	Temperature	3/9/2022 12:49	18.97	C
MR-AP-MW-13DR	Turbidity	3/9/2022 12:49	1.79	NTU
MR-AP-MW-13DR	Conductivity	3/9/2022 12:54	759.78	uS/cm
MR-AP-MW-13DR	DO	3/9/2022 12:54	0.52	mg/L
MR-AP-MW-13DR	Depth to Water Detail	3/9/2022 12:54	99.11	ft
MR-AP-MW-13DR	Oxidation Reduction Potention	3/9/2022 12:54	10.02	mv
MR-AP-MW-13DR	pH	3/9/2022 12:54	6.97	SU
MR-AP-MW-13DR	Temperature	3/9/2022 12:54	18.98	C
MR-AP-MW-13DR	Turbidity	3/9/2022 12:54	1.58	NTU
MR-AP-MW-13DR	Conductivity	3/9/2022 12:59	764.55	uS/cm
MR-AP-MW-13DR	DO	3/9/2022 12:59	0.52	mg/L
MR-AP-MW-13DR	Depth to Water Detail	3/9/2022 12:59	101.3	ft

**Groundwater Field Parameters  
Plant Miller Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-13DR	Oxidation Reduction Potention	3/9/2022 12:59	6.95	mv
MR-AP-MW-13DR	pH	3/9/2022 12:59	6.95	SU
MR-AP-MW-13DR	Temperature	3/9/2022 12:59	18.82	C
MR-AP-MW-13DR	Turbidity	3/9/2022 12:59	1.41	NTU
MR-AP-MW-13DR	Conductivity	3/9/2022 13:04	778.76	uS/cm
MR-AP-MW-13DR	DO	3/9/2022 13:04	0.51	mg/L
MR-AP-MW-13DR	Depth to Water Detail	3/9/2022 13:04	104.48	ft
MR-AP-MW-13DR	Oxidation Reduction Potention	3/9/2022 13:04	1.59	mv
MR-AP-MW-13DR	pH	3/9/2022 13:04	6.97	SU
MR-AP-MW-13DR	Temperature	3/9/2022 13:04	18.92	C
MR-AP-MW-13DR	Turbidity	3/9/2022 13:04	1.19	NTU
MR-AP-MW-13DR	Conductivity	3/9/2022 13:09	778.62	uS/cm
MR-AP-MW-13DR	DO	3/9/2022 13:09	0.77	mg/L
MR-AP-MW-13DR	Depth to Water Detail	3/9/2022 13:09	104.93	ft
MR-AP-MW-13DR	Oxidation Reduction Potention	3/9/2022 13:09	-0.7	mv
MR-AP-MW-13DR	pH	3/9/2022 13:09	6.97	SU
MR-AP-MW-13DR	Temperature	3/9/2022 13:09	18.73	C
MR-AP-MW-13DR	Turbidity	3/9/2022 13:09	1.31	NTU
MR-AP-MW-13DR	Conductivity	3/9/2022 13:14	785.49	uS/cm
MR-AP-MW-13DR	DO	3/9/2022 13:14	0.91	mg/L
MR-AP-MW-13DR	Depth to Water Detail	3/9/2022 13:14	105.02	ft
MR-AP-MW-13DR	Oxidation Reduction Potention	3/9/2022 13:14	-1.38	mv
MR-AP-MW-13DR	pH	3/9/2022 13:14	6.97	SU
MR-AP-MW-13DR	Temperature	3/9/2022 13:14	18.59	C
MR-AP-MW-13DR	Turbidity	3/9/2022 13:14	0.94	NTU
MR-AP-MW-13DR	Conductivity	3/9/2022 13:19	790.95	uS/cm
MR-AP-MW-13DR	DO	3/9/2022 13:19	1	mg/L
MR-AP-MW-13DR	Depth to Water Detail	3/9/2022 13:19	105.11	ft
MR-AP-MW-13DR	Oxidation Reduction Potention	3/9/2022 13:19	-2.08	mv
MR-AP-MW-13DR	pH	3/9/2022 13:19	6.97	SU
MR-AP-MW-13DR	Temperature	3/9/2022 13:19	18.39	C
MR-AP-MW-13DR	Turbidity	3/9/2022 13:19	1	NTU
MR-AP-MW-13DR	Conductivity	3/9/2022 13:24	813.56	uS/cm
MR-AP-MW-13DR	DO	3/9/2022 13:24	1.06	mg/L
MR-AP-MW-13DR	Depth to Water Detail	3/9/2022 13:24	105.24	ft
MR-AP-MW-13DR	Oxidation Reduction Potention	3/9/2022 13:24	-9.86	mv
MR-AP-MW-13DR	pH	3/9/2022 13:24	6.97	SU
MR-AP-MW-13DR	Temperature	3/9/2022 13:24	18.47	C
MR-AP-MW-13DR	Turbidity	3/9/2022 13:24	1.02	NTU

**Groundwater Field Parameters  
Plant Miller Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-13SR	Conductivity	3/9/2022 14:41	1333.29	uS/cm
MR-AP-MW-13SR	DO	3/9/2022 14:41	0.09	mg/L
MR-AP-MW-13SR	Depth to Water Detail	3/9/2022 14:41	35.08	ft
MR-AP-MW-13SR	Oxidation Reduction Potention	3/9/2022 14:41	57.79	mv
MR-AP-MW-13SR	pH	3/9/2022 14:41	5.89	SU
MR-AP-MW-13SR	Temperature	3/9/2022 14:41	19.56	C
MR-AP-MW-13SR	Turbidity	3/9/2022 14:41	12.11	NTU
MR-AP-MW-13SR	Conductivity	3/9/2022 14:46	1345.35	uS/cm
MR-AP-MW-13SR	DO	3/9/2022 14:46	0.16	mg/L
MR-AP-MW-13SR	Depth to Water Detail	3/9/2022 14:46	38.52	ft
MR-AP-MW-13SR	Oxidation Reduction Potention	3/9/2022 14:46	72.1	mv
MR-AP-MW-13SR	pH	3/9/2022 14:46	5.9	SU
MR-AP-MW-13SR	Temperature	3/9/2022 14:46	19.74	C
MR-AP-MW-13SR	Turbidity	3/9/2022 14:46	4.46	NTU
MR-AP-MW-13SR	Conductivity	3/9/2022 14:51	1352.79	uS/cm
MR-AP-MW-13SR	DO	3/9/2022 14:51	0.26	mg/L
MR-AP-MW-13SR	Depth to Water Detail	3/9/2022 14:51	40.92	ft
MR-AP-MW-13SR	Oxidation Reduction Potention	3/9/2022 14:51	65.59	mv
MR-AP-MW-13SR	pH	3/9/2022 14:51	5.95	SU
MR-AP-MW-13SR	Temperature	3/9/2022 14:51	19.73	C
MR-AP-MW-13SR	Turbidity	3/9/2022 14:51	2.04	NTU
MR-AP-MW-13SR	Conductivity	3/9/2022 14:56	1345.44	uS/cm
MR-AP-MW-13SR	DO	3/9/2022 14:56	0.49	mg/L
MR-AP-MW-13SR	Depth to Water Detail	3/9/2022 14:56	40.6	ft
MR-AP-MW-13SR	Oxidation Reduction Potention	3/9/2022 14:56	58.81	mv
MR-AP-MW-13SR	pH	3/9/2022 14:56	6	SU
MR-AP-MW-13SR	Temperature	3/9/2022 14:56	19.39	C
MR-AP-MW-13SR	Turbidity	3/9/2022 14:56	2.07	NTU
MR-AP-MW-13SR	Conductivity	3/9/2022 15:01	1335.54	uS/cm
MR-AP-MW-13SR	DO	3/9/2022 15:01	0.56	mg/L
MR-AP-MW-13SR	Depth to Water Detail	3/9/2022 15:01	40.6	ft
MR-AP-MW-13SR	Oxidation Reduction Potention	3/9/2022 15:01	50.49	mv
MR-AP-MW-13SR	pH	3/9/2022 15:01	6.03	SU
MR-AP-MW-13SR	Temperature	3/9/2022 15:01	19.28	C
MR-AP-MW-13SR	Turbidity	3/9/2022 15:01	1.2	NTU
MR-AP-MW-13SR	Conductivity	3/9/2022 15:06	1370.22	uS/cm
MR-AP-MW-13SR	DO	3/9/2022 15:06	0.38	mg/L
MR-AP-MW-13SR	Depth to Water Detail	3/9/2022 15:06	40.6	ft
MR-AP-MW-13SR	Oxidation Reduction Potention	3/9/2022 15:06	40.5	mv
MR-AP-MW-13SR	pH	3/9/2022 15:06	6.05	SU
MR-AP-MW-13SR	Temperature	3/9/2022 15:06	19.26	C
MR-AP-MW-13SR	Turbidity	3/9/2022 15:06	1.18	NTU

**Groundwater Field Parameters  
Plant Miller Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-14R	Conductivity	3/9/2022 11:19	346.17	uS/cm
MR-AP-MW-14R	DO	3/9/2022 11:19	0.16	mg/L
MR-AP-MW-14R	Depth to Water Detail	3/9/2022 11:19	15.79	ft
MR-AP-MW-14R	Oxidation Reduction Potential	3/9/2022 11:19	-22.63	mv
MR-AP-MW-14R	pH	3/9/2022 11:19	6.47	SU
MR-AP-MW-14R	Temperature	3/9/2022 11:19	19.03	C
MR-AP-MW-14R	Turbidity	3/9/2022 11:19	3.03	NTU
MR-AP-MW-14R	Conductivity	3/9/2022 11:24	346.13	uS/cm
MR-AP-MW-14R	DO	3/9/2022 11:24	0.13	mg/L
MR-AP-MW-14R	Depth to Water Detail	3/9/2022 11:24	15.92	ft
MR-AP-MW-14R	Oxidation Reduction Potential	3/9/2022 11:24	-25.36	mv
MR-AP-MW-14R	pH	3/9/2022 11:24	6.49	SU
MR-AP-MW-14R	Temperature	3/9/2022 11:24	19.03	C
MR-AP-MW-14R	Turbidity	3/9/2022 11:24	2.12	NTU
MR-AP-MW-14R	Conductivity	3/9/2022 11:29	345.37	uS/cm
MR-AP-MW-14R	DO	3/9/2022 11:29	0.11	mg/L
MR-AP-MW-14R	Depth to Water Detail	3/9/2022 11:29	15.96	ft
MR-AP-MW-14R	Oxidation Reduction Potential	3/9/2022 11:29	-27.73	mv
MR-AP-MW-14R	pH	3/9/2022 11:29	6.52	SU
MR-AP-MW-14R	Temperature	3/9/2022 11:29	19.03	C
MR-AP-MW-14R	Turbidity	3/9/2022 11:29	2	NTU
MR-AP-MW-14R	Conductivity	3/9/2022 11:34	345.22	uS/cm
MR-AP-MW-14R	DO	3/9/2022 11:34	0.1	mg/L
MR-AP-MW-14R	Depth to Water Detail	3/9/2022 11:34	16.02	ft
MR-AP-MW-14R	Oxidation Reduction Potential	3/9/2022 11:34	-29.04	mv
MR-AP-MW-14R	pH	3/9/2022 11:34	6.53	SU
MR-AP-MW-14R	Temperature	3/9/2022 11:34	19.03	C
MR-AP-MW-14R	Turbidity	3/9/2022 11:34	2.1	NTU

**Groundwater Field Parameters  
Plant Miller Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-15	Conductivity	3/9/2022 8:56	499.42	uS/cm
MR-AP-MW-15	DO	3/9/2022 8:56	0.24	mg/L
MR-AP-MW-15	Depth to Water Detail	3/9/2022 8:56	15.14	ft
MR-AP-MW-15	Oxidation Reduction Potential	3/9/2022 8:56	-38.37	mv
MR-AP-MW-15	pH	3/9/2022 8:56	6	SU
MR-AP-MW-15	Temperature	3/9/2022 8:56	20.39	C
MR-AP-MW-15	Turbidity	3/9/2022 8:56	157	NTU
MR-AP-MW-15	Conductivity	3/9/2022 9:01	470.3	uS/cm
MR-AP-MW-15	DO	3/9/2022 9:01	0.19	mg/L
MR-AP-MW-15	Depth to Water Detail	3/9/2022 9:01	15.29	ft
MR-AP-MW-15	Oxidation Reduction Potential	3/9/2022 9:01	-37.13	mv
MR-AP-MW-15	pH	3/9/2022 9:01	6.08	SU
MR-AP-MW-15	Temperature	3/9/2022 9:01	20.39	C
MR-AP-MW-15	Turbidity	3/9/2022 9:01	138	NTU
MR-AP-MW-15	Conductivity	3/9/2022 9:06	463.9	uS/cm
MR-AP-MW-15	DO	3/9/2022 9:06	0.17	mg/L
MR-AP-MW-15	Depth to Water Detail	3/9/2022 9:06	15.41	ft
MR-AP-MW-15	Oxidation Reduction Potential	3/9/2022 9:06	-37.68	mv
MR-AP-MW-15	pH	3/9/2022 9:06	6.15	SU
MR-AP-MW-15	Temperature	3/9/2022 9:06	20.42	C
MR-AP-MW-15	Turbidity	3/9/2022 9:06	92.4	NTU
MR-AP-MW-15	Conductivity	3/9/2022 9:11	463.49	uS/cm
MR-AP-MW-15	DO	3/9/2022 9:11	0.16	mg/L
MR-AP-MW-15	Depth to Water Detail	3/9/2022 9:11	15.51	ft
MR-AP-MW-15	Oxidation Reduction Potential	3/9/2022 9:11	-38.48	mv
MR-AP-MW-15	pH	3/9/2022 9:11	6.19	SU
MR-AP-MW-15	Temperature	3/9/2022 9:11	20.44	C
MR-AP-MW-15	Turbidity	3/9/2022 9:11	62.3	NTU
MR-AP-MW-15	Conductivity	3/9/2022 9:16	463.2	uS/cm
MR-AP-MW-15	DO	3/9/2022 9:16	0.16	mg/L
MR-AP-MW-15	Depth to Water Detail	3/9/2022 9:16	15.6	ft
MR-AP-MW-15	Oxidation Reduction Potential	3/9/2022 9:16	-39.12	mv
MR-AP-MW-15	pH	3/9/2022 9:16	6.22	SU
MR-AP-MW-15	Temperature	3/9/2022 9:16	20.46	C
MR-AP-MW-15	Turbidity	3/9/2022 9:16	38.8	NTU
MR-AP-MW-15	Conductivity	3/9/2022 9:21	462.93	uS/cm
MR-AP-MW-15	DO	3/9/2022 9:21	0.15	mg/L
MR-AP-MW-15	Depth to Water Detail	3/9/2022 9:21	15.62	ft
MR-AP-MW-15	Oxidation Reduction Potential	3/9/2022 9:21	-39.32	mv
MR-AP-MW-15	pH	3/9/2022 9:21	6.25	SU
MR-AP-MW-15	Temperature	3/9/2022 9:21	20.44	C
MR-AP-MW-15	Turbidity	3/9/2022 9:21	29.2	NTU
MR-AP-MW-15	Conductivity	3/9/2022 9:26	465.05	uS/cm
MR-AP-MW-15	DO	3/9/2022 9:26	0.15	mg/L
MR-AP-MW-15	Depth to Water Detail	3/9/2022 9:26	15.71	ft

**Groundwater Field Parameters  
Plant Miller Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-15	Oxidation Reduction Potential	3/9/2022 9:26	-39.57	mv
MR-AP-MW-15	pH	3/9/2022 9:26	6.26	SU
MR-AP-MW-15	Temperature	3/9/2022 9:26	20.51	C
MR-AP-MW-15	Turbidity	3/9/2022 9:26	21.8	NTU
MR-AP-MW-15	Conductivity	3/9/2022 9:31	462.91	uS/cm
MR-AP-MW-15	DO	3/9/2022 9:31	0.15	mg/L
MR-AP-MW-15	Depth to Water Detail	3/9/2022 9:31	15.74	ft
MR-AP-MW-15	Oxidation Reduction Potential	3/9/2022 9:31	-39.36	mv
MR-AP-MW-15	pH	3/9/2022 9:31	6.27	SU
MR-AP-MW-15	Temperature	3/9/2022 9:31	20.5	C
MR-AP-MW-15	Turbidity	3/9/2022 9:31	19.3	NTU
MR-AP-MW-15	Conductivity	3/9/2022 9:36	465.43	uS/cm
MR-AP-MW-15	DO	3/9/2022 9:36	0.15	mg/L
MR-AP-MW-15	Depth to Water Detail	3/9/2022 9:36	15.75	ft
MR-AP-MW-15	Oxidation Reduction Potential	3/9/2022 9:36	-39.69	mv
MR-AP-MW-15	pH	3/9/2022 9:36	6.29	SU
MR-AP-MW-15	Temperature	3/9/2022 9:36	20.49	C
MR-AP-MW-15	Turbidity	3/9/2022 9:36	17.1	NTU
MR-AP-MW-15	Conductivity	3/9/2022 9:41	462.16	uS/cm
MR-AP-MW-15	DO	3/9/2022 9:41	0.14	mg/L
MR-AP-MW-15	Depth to Water Detail	3/9/2022 9:41	15.76	ft
MR-AP-MW-15	Oxidation Reduction Potential	3/9/2022 9:41	-40.26	mv
MR-AP-MW-15	pH	3/9/2022 9:41	6.3	SU
MR-AP-MW-15	Temperature	3/9/2022 9:41	20.56	C
MR-AP-MW-15	Turbidity	3/9/2022 9:41	14.1	NTU
MR-AP-MW-15	Conductivity	3/9/2022 9:46	458.1	uS/cm
MR-AP-MW-15	DO	3/9/2022 9:46	0.14	mg/L
MR-AP-MW-15	Depth to Water Detail	3/9/2022 9:46	15.78	ft
MR-AP-MW-15	Oxidation Reduction Potential	3/9/2022 9:46	-40.67	mv
MR-AP-MW-15	pH	3/9/2022 9:46	6.32	SU
MR-AP-MW-15	Temperature	3/9/2022 9:46	20.49	C
MR-AP-MW-15	Turbidity	3/9/2022 9:46	13.3	NTU
MR-AP-MW-15	Conductivity	3/9/2022 9:51	453.27	uS/cm
MR-AP-MW-15	DO	3/9/2022 9:51	0.14	mg/L
MR-AP-MW-15	Depth to Water Detail	3/9/2022 9:51	15.83	ft
MR-AP-MW-15	Oxidation Reduction Potential	3/9/2022 9:51	-40.59	mv
MR-AP-MW-15	pH	3/9/2022 9:51	6.32	SU
MR-AP-MW-15	Temperature	3/9/2022 9:51	20.48	C
MR-AP-MW-15	Turbidity	3/9/2022 9:51	12.6	NTU
MR-AP-MW-15	Conductivity	3/9/2022 9:56	443.29	uS/cm
MR-AP-MW-15	DO	3/9/2022 9:56	0.14	mg/L
MR-AP-MW-15	Depth to Water Detail	3/9/2022 9:56	15.9	ft
MR-AP-MW-15	Oxidation Reduction Potential	3/9/2022 9:56	-40.75	mv
MR-AP-MW-15	pH	3/9/2022 9:56	6.33	SU
MR-AP-MW-15	Temperature	3/9/2022 9:56	20.58	C

**Groundwater Field Parameters  
Plant Miller Ash Pond**

<b>WELL ID</b>	<b>DESCRIPTION</b>	<b>TIME OF READING</b>	<b>VALUE</b>	<b>UNIT</b>
MR-AP-MW-15	Turbidity	3/9/2022 9:56	12.54	NTU
MR-AP-MW-15	Conductivity	3/9/2022 10:01	435.35	uS/cm
MR-AP-MW-15	DO	3/9/2022 10:01	0.14	mg/L
MR-AP-MW-15	Depth to Water Detail	3/9/2022 10:01	15.91	ft
MR-AP-MW-15	Oxidation Reduction Potential	3/9/2022 10:01	-42.1	mv
MR-AP-MW-15	pH	3/9/2022 10:01	6.35	SU
MR-AP-MW-15	Temperature	3/9/2022 10:01	20.6	C
MR-AP-MW-15	Turbidity	3/9/2022 10:01	10.53	NTU
MR-AP-MW-15	Conductivity	3/9/2022 10:06	427.19	uS/cm
MR-AP-MW-15	DO	3/9/2022 10:06	0.14	mg/L
MR-AP-MW-15	Depth to Water Detail	3/9/2022 10:06	15.93	ft
MR-AP-MW-15	Oxidation Reduction Potential	3/9/2022 10:06	-43.35	mv
MR-AP-MW-15	pH	3/9/2022 10:06	6.37	SU
MR-AP-MW-15	Temperature	3/9/2022 10:06	20.66	C
MR-AP-MW-15	Turbidity	3/9/2022 10:06	9.67	NTU



**Groundwater Field Parameters  
Plant Miller Ash Pond**

<b>WELL ID</b>	<b>DESCRIPTION</b>	<b>TIME OF READING</b>	<b>VALUE</b>	<b>UNIT</b>
MR-AP-MW-16	Conductivity	3/8/2022 13:08	1047.92	uS/cm
MR-AP-MW-16	DO	3/8/2022 13:08	0.35	mg/L
MR-AP-MW-16	Depth to Water Detail	3/8/2022 13:08	31.54	ft
MR-AP-MW-16	Oxidation Reduction Potential	3/8/2022 13:08	27.49	mv
MR-AP-MW-16	pH	3/8/2022 13:08	6.32	SU
MR-AP-MW-16	Temperature	3/8/2022 13:08	20.58	C
MR-AP-MW-16	Turbidity	3/8/2022 13:08	3.6	NTU
MR-AP-MW-16	Conductivity	3/8/2022 13:13	1003.19	uS/cm
MR-AP-MW-16	DO	3/8/2022 13:13	0.84	mg/L
MR-AP-MW-16	Depth to Water Detail	3/8/2022 13:13	31.61	ft
MR-AP-MW-16	Oxidation Reduction Potential	3/8/2022 13:13	54.21	mv
MR-AP-MW-16	pH	3/8/2022 13:13	6.15	SU
MR-AP-MW-16	Temperature	3/8/2022 13:13	20.78	C
MR-AP-MW-16	Turbidity	3/8/2022 13:13	2.32	NTU
MR-AP-MW-16	Conductivity	3/8/2022 13:18	997.5	uS/cm
MR-AP-MW-16	DO	3/8/2022 13:18	0.96	mg/L
MR-AP-MW-16	Depth to Water Detail	3/8/2022 13:18	31.61	ft
MR-AP-MW-16	Oxidation Reduction Potential	3/8/2022 13:18	64.61	mv
MR-AP-MW-16	pH	3/8/2022 13:18	6.14	SU
MR-AP-MW-16	Temperature	3/8/2022 13:18	20.63	C
MR-AP-MW-16	Turbidity	3/8/2022 13:18	1.2	NTU
MR-AP-MW-16	Conductivity	3/8/2022 13:23	999.74	uS/cm
MR-AP-MW-16	DO	3/8/2022 13:23	1	mg/L
MR-AP-MW-16	Depth to Water Detail	3/8/2022 13:23	31.61	ft
MR-AP-MW-16	Oxidation Reduction Potential	3/8/2022 13:23	67.42	mv
MR-AP-MW-16	pH	3/8/2022 13:23	6.15	SU
MR-AP-MW-16	Temperature	3/8/2022 13:23	20.57	C
MR-AP-MW-16	Turbidity	3/8/2022 13:23	0.98	NTU

**Groundwater Field Parameters  
Plant Miller Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-1	Conductivity	3/15/2022 9:20	3624.44	uS/cm
MR-AP-MW-1	DO	3/15/2022 9:20	1.37	mg/L
MR-AP-MW-1	Depth to Water Detail	3/15/2022 9:20	198.38	ft
MR-AP-MW-1	Oxidation Reduction Potential	3/15/2022 9:20	-255.45	mv
MR-AP-MW-1	pH	3/15/2022 9:20	11.88	SU
MR-AP-MW-1	Temperature	3/15/2022 9:20	17.15	C
MR-AP-MW-1	Turbidity	3/15/2022 9:20	10.08	NTU
MR-AP-MW-1	Conductivity	3/15/2022 9:25	3441.24	uS/cm
MR-AP-MW-1	DO	3/15/2022 9:25	0.77	mg/L
MR-AP-MW-1	Depth to Water Detail	3/15/2022 9:25	200.7	ft
MR-AP-MW-1	Oxidation Reduction Potential	3/15/2022 9:25	-268.22	mv
MR-AP-MW-1	pH	3/15/2022 9:25	11.97	SU
MR-AP-MW-1	Temperature	3/15/2022 9:25	17.11	C
MR-AP-MW-1	Turbidity	3/15/2022 9:25	6.33	NTU
MR-AP-MW-1	Conductivity	3/15/2022 9:30	3420.58	uS/cm
MR-AP-MW-1	DO	3/15/2022 9:30	0.52	mg/L
MR-AP-MW-1	Depth to Water Detail	3/15/2022 9:30	203.62	ft
MR-AP-MW-1	Oxidation Reduction Potential	3/15/2022 9:30	-281.49	mv
MR-AP-MW-1	pH	3/15/2022 9:30	12	SU
MR-AP-MW-1	Temperature	3/15/2022 9:30	17.22	C
MR-AP-MW-1	Turbidity	3/15/2022 9:30	6.04	NTU
MR-AP-MW-1	Conductivity	3/15/2022 9:35	3256.36	uS/cm
MR-AP-MW-1	DO	3/15/2022 9:35	0.38	mg/L
MR-AP-MW-1	Depth to Water Detail	3/15/2022 9:35	205.85	ft
MR-AP-MW-1	Oxidation Reduction Potential	3/15/2022 9:35	-293.78	mv
MR-AP-MW-1	pH	3/15/2022 9:35	12.01	SU
MR-AP-MW-1	Temperature	3/15/2022 9:35	17.11	C
MR-AP-MW-1	Turbidity	3/15/2022 9:35	7.2	NTU
MR-AP-MW-1	Conductivity	3/15/2022 9:40	2864.4	uS/cm
MR-AP-MW-1	DO	3/15/2022 9:40	0.36	mg/L
MR-AP-MW-1	Depth to Water Detail	3/15/2022 9:40	206.76	ft
MR-AP-MW-1	Oxidation Reduction Potential	3/15/2022 9:40	-294.5	mv
MR-AP-MW-1	pH	3/15/2022 9:40	12	SU
MR-AP-MW-1	Temperature	3/15/2022 9:40	16.78	C
MR-AP-MW-1	Turbidity	3/15/2022 9:40	5.8	NTU
MR-AP-MW-1	Conductivity	3/15/2022 9:45	2543.35	uS/cm
MR-AP-MW-1	DO	3/15/2022 9:45	0.37	mg/L
MR-AP-MW-1	Depth to Water Detail	3/15/2022 9:45	206.65	ft
MR-AP-MW-1	Oxidation Reduction Potential	3/15/2022 9:45	-294.64	mv
MR-AP-MW-1	pH	3/15/2022 9:45	11.98	SU
MR-AP-MW-1	Temperature	3/15/2022 9:45	16.74	C
MR-AP-MW-1	Turbidity	3/15/2022 9:45	5.85	NTU
MR-AP-MW-1	Conductivity	3/15/2022 9:50	2192.89	uS/cm
MR-AP-MW-1	DO	3/15/2022 9:50	0.36	mg/L
MR-AP-MW-1	Depth to Water Detail	3/15/2022 9:50	206.65	ft

**Groundwater Field Parameters  
Plant Miller Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-1	Oxidation Reduction Potention	3/15/2022 9:50	-297.93	mv
MR-AP-MW-1	pH	3/15/2022 9:50	11.9	SU
MR-AP-MW-1	Temperature	3/15/2022 9:50	16.82	C
MR-AP-MW-1	Turbidity	3/15/2022 9:50	13.9	NTU
MR-AP-MW-1	Conductivity	3/15/2022 9:55	1469.06	uS/cm
MR-AP-MW-1	DO	3/15/2022 9:55	0.36	mg/L
MR-AP-MW-1	Depth to Water Detail	3/15/2022 9:55	206.65	ft
MR-AP-MW-1	Oxidation Reduction Potention	3/15/2022 9:55	-298	mv
MR-AP-MW-1	pH	3/15/2022 9:55	11.68	SU
MR-AP-MW-1	Temperature	3/15/2022 9:55	16.84	C
MR-AP-MW-1	Turbidity	3/15/2022 9:55	18.3	NTU
MR-AP-MW-1	Conductivity	3/15/2022 10:00	1166.47	uS/cm
MR-AP-MW-1	DO	3/15/2022 10:00	0.34	mg/L
MR-AP-MW-1	Depth to Water Detail	3/15/2022 10:00	206.65	ft
MR-AP-MW-1	Oxidation Reduction Potention	3/15/2022 10:00	-294.84	mv
MR-AP-MW-1	pH	3/15/2022 10:00	11.4	SU
MR-AP-MW-1	Temperature	3/15/2022 10:00	16.87	C
MR-AP-MW-1	Turbidity	3/15/2022 10:00	16.6	NTU
MR-AP-MW-1	Conductivity	3/15/2022 10:05	1051	uS/cm
MR-AP-MW-1	DO	3/15/2022 10:05	0.32	mg/L
MR-AP-MW-1	Depth to Water Detail	3/15/2022 10:05	206.65	ft
MR-AP-MW-1	Oxidation Reduction Potention	3/15/2022 10:05	-291.17	mv
MR-AP-MW-1	pH	3/15/2022 10:05	11.22	SU
MR-AP-MW-1	Temperature	3/15/2022 10:05	16.67	C
MR-AP-MW-1	Turbidity	3/15/2022 10:05	21.8	NTU
MR-AP-MW-1	Conductivity	3/15/2022 10:10	995.53	uS/cm
MR-AP-MW-1	DO	3/15/2022 10:10	0.28	mg/L
MR-AP-MW-1	Depth to Water Detail	3/15/2022 10:10	206.65	ft
MR-AP-MW-1	Oxidation Reduction Potention	3/15/2022 10:10	-289.1	mv
MR-AP-MW-1	pH	3/15/2022 10:10	11.04	SU
MR-AP-MW-1	Temperature	3/15/2022 10:10	16.64	C
MR-AP-MW-1	Turbidity	3/15/2022 10:10	17.2	NTU
MR-AP-MW-1	Conductivity	3/15/2022 10:15	966.27	uS/cm
MR-AP-MW-1	DO	3/15/2022 10:15	0.26	mg/L
MR-AP-MW-1	Depth to Water Detail	3/15/2022 10:15	206.65	ft
MR-AP-MW-1	Oxidation Reduction Potention	3/15/2022 10:15	-283.57	mv
MR-AP-MW-1	pH	3/15/2022 10:15	10.73	SU
MR-AP-MW-1	Temperature	3/15/2022 10:15	16.66	C
MR-AP-MW-1	Turbidity	3/15/2022 10:15	13.8	NTU
MR-AP-MW-1	Conductivity	3/15/2022 10:20	953.86	uS/cm
MR-AP-MW-1	DO	3/15/2022 10:20	0.25	mg/L
MR-AP-MW-1	Depth to Water Detail	3/15/2022 10:20	206.65	ft
MR-AP-MW-1	Oxidation Reduction Potention	3/15/2022 10:20	-275.15	mv
MR-AP-MW-1	pH	3/15/2022 10:20	10.29	SU
MR-AP-MW-1	Temperature	3/15/2022 10:20	16.63	C

**Groundwater Field Parameters  
Plant Miller Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-1	Turbidity	3/15/2022 10:20	13.2	NTU
MR-AP-MW-1	Conductivity	3/15/2022 10:25	951	uS/cm
MR-AP-MW-1	DO	3/15/2022 10:25	0.24	mg/L
MR-AP-MW-1	Depth to Water Detail	3/15/2022 10:25	206.65	ft
MR-AP-MW-1	Oxidation Reduction Potention	3/15/2022 10:25	-267.13	mv
MR-AP-MW-1	pH	3/15/2022 10:25	9.92	SU
MR-AP-MW-1	Temperature	3/15/2022 10:25	16.69	C
MR-AP-MW-1	Turbidity	3/15/2022 10:25	10.87	NTU
MR-AP-MW-1	Conductivity	3/15/2022 10:30	971.58	uS/cm
MR-AP-MW-1	DO	3/15/2022 10:30	0.22	mg/L
MR-AP-MW-1	Depth to Water Detail	3/15/2022 10:30	206.8	ft
MR-AP-MW-1	Oxidation Reduction Potention	3/15/2022 10:30	-267.7	mv
MR-AP-MW-1	pH	3/15/2022 10:30	9.62	SU
MR-AP-MW-1	Temperature	3/15/2022 10:30	16.69	C
MR-AP-MW-1	Turbidity	3/15/2022 10:30	11.1	NTU
MR-AP-MW-1	Conductivity	3/15/2022 10:35	960.05	uS/cm
MR-AP-MW-1	DO	3/15/2022 10:35	0.2	mg/L
MR-AP-MW-1	Depth to Water Detail	3/15/2022 10:35	206.8	ft
MR-AP-MW-1	Oxidation Reduction Potention	3/15/2022 10:35	-285.28	mv
MR-AP-MW-1	pH	3/15/2022 10:35	9.4	SU
MR-AP-MW-1	Temperature	3/15/2022 10:35	16.67	C
MR-AP-MW-1	Turbidity	3/15/2022 10:35	8.9	NTU
MR-AP-MW-1	Conductivity	3/15/2022 10:40	988.36	uS/cm
MR-AP-MW-1	DO	3/15/2022 10:40	0.19	mg/L
MR-AP-MW-1	Depth to Water Detail	3/15/2022 10:40	206.8	ft
MR-AP-MW-1	Oxidation Reduction Potention	3/15/2022 10:40	-296.6	mv
MR-AP-MW-1	pH	3/15/2022 10:40	9.27	SU
MR-AP-MW-1	Temperature	3/15/2022 10:40	16.64	C
MR-AP-MW-1	Turbidity	3/15/2022 10:40	9.36	NTU
MR-AP-MW-1	Conductivity	3/15/2022 10:45	960.62	uS/cm
MR-AP-MW-1	DO	3/15/2022 10:45	0.17	mg/L
MR-AP-MW-1	Depth to Water Detail	3/15/2022 10:45	206.8	ft
MR-AP-MW-1	Oxidation Reduction Potention	3/15/2022 10:45	-312.14	mv
MR-AP-MW-1	pH	3/15/2022 10:45	9.17	SU
MR-AP-MW-1	Temperature	3/15/2022 10:45	16.57	C
MR-AP-MW-1	Turbidity	3/15/2022 10:45	7.71	NTU
MR-AP-MW-1	Conductivity	3/15/2022 10:50	979.02	uS/cm
MR-AP-MW-1	DO	3/15/2022 10:50	0.16	mg/L
MR-AP-MW-1	Depth to Water Detail	3/15/2022 10:50	206.9	ft
MR-AP-MW-1	Oxidation Reduction Potention	3/15/2022 10:50	-316.49	mv
MR-AP-MW-1	pH	3/15/2022 10:50	9.05	SU
MR-AP-MW-1	Temperature	3/15/2022 10:50	16.61	C
MR-AP-MW-1	Turbidity	3/15/2022 10:50	6.84	NTU
MR-AP-MW-1	Conductivity	3/15/2022 10:55	1012.62	uS/cm
MR-AP-MW-1	DO	3/15/2022 10:55	0.14	mg/L

**Groundwater Field Parameters  
Plant Miller Ash Pond**

<b>WELL ID</b>	<b>DESCRIPTION</b>	<b>TIME OF READING</b>	<b>VALUE</b>	<b>UNIT</b>
MR-AP-MW-1	Depth to Water Detail	3/15/2022 10:55	207.2	ft
MR-AP-MW-1	Oxidation Reduction Potention	3/15/2022 10:55	-320.8	mv
MR-AP-MW-1	pH	3/15/2022 10:55	8.87	SU
MR-AP-MW-1	Temperature	3/15/2022 10:55	16.61	C
MR-AP-MW-1	Turbidity	3/15/2022 10:55	6.2	NTU
MR-AP-MW-1	Conductivity	3/15/2022 11:00	1042.86	uS/cm
MR-AP-MW-1	DO	3/15/2022 11:00	0.13	mg/L
MR-AP-MW-1	Depth to Water Detail	3/15/2022 11:00	207.4	ft
MR-AP-MW-1	Oxidation Reduction Potention	3/15/2022 11:00	-321.79	mv
MR-AP-MW-1	pH	3/15/2022 11:00	8.76	SU
MR-AP-MW-1	Temperature	3/15/2022 11:00	16.69	C
MR-AP-MW-1	Turbidity	3/15/2022 11:00	6.46	NTU
MR-AP-MW-1	Conductivity	3/15/2022 11:05	1056.93	uS/cm
MR-AP-MW-1	DO	3/15/2022 11:05	0.1	mg/L
MR-AP-MW-1	Depth to Water Detail	3/15/2022 11:05	207.4	ft
MR-AP-MW-1	Oxidation Reduction Potention	3/15/2022 11:05	-326.13	mv
MR-AP-MW-1	pH	3/15/2022 11:05	8.71	SU
MR-AP-MW-1	Temperature	3/15/2022 11:05	16.62	C
MR-AP-MW-1	Turbidity	3/15/2022 11:05	5.43	NTU

**Groundwater Field Parameters  
Plant Miller Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-4	Conductivity	3/15/2022 8:26	1186.91	uS/cm
MR-AP-MW-4	DO	3/15/2022 8:26	0.69	mg/L
MR-AP-MW-4	Depth to Water Detail	3/15/2022 8:26	50.12	ft
MR-AP-MW-4	Oxidation Reduction Potential	3/15/2022 8:26	17.08	mv
MR-AP-MW-4	pH	3/15/2022 8:26	6.67	SU
MR-AP-MW-4	Temperature	3/15/2022 8:26	18.24	C
MR-AP-MW-4	Turbidity	3/15/2022 8:26	3.44	NTU
MR-AP-MW-4	Conductivity	3/15/2022 8:31	1136.14	uS/cm
MR-AP-MW-4	DO	3/15/2022 8:31	0.57	mg/L
MR-AP-MW-4	Depth to Water Detail	3/15/2022 8:31	50.43	ft
MR-AP-MW-4	Oxidation Reduction Potential	3/15/2022 8:31	26.02	mv
MR-AP-MW-4	pH	3/15/2022 8:31	6.51	SU
MR-AP-MW-4	Temperature	3/15/2022 8:31	18.39	C
MR-AP-MW-4	Turbidity	3/15/2022 8:31	2.03	NTU
MR-AP-MW-4	Conductivity	3/15/2022 8:36	1098.24	uS/cm
MR-AP-MW-4	DO	3/15/2022 8:36	0.56	mg/L
MR-AP-MW-4	Depth to Water Detail	3/15/2022 8:36	50.61	ft
MR-AP-MW-4	Oxidation Reduction Potential	3/15/2022 8:36	32.7	mv
MR-AP-MW-4	pH	3/15/2022 8:36	6.38	SU
MR-AP-MW-4	Temperature	3/15/2022 8:36	18.43	C
MR-AP-MW-4	Turbidity	3/15/2022 8:36	2.48	NTU
MR-AP-MW-4	Conductivity	3/15/2022 8:41	1076.32	uS/cm
MR-AP-MW-4	DO	3/15/2022 8:41	0.53	mg/L
MR-AP-MW-4	Depth to Water Detail	3/15/2022 8:41	50.72	ft
MR-AP-MW-4	Oxidation Reduction Potential	3/15/2022 8:41	38.76	mv
MR-AP-MW-4	pH	3/15/2022 8:41	6.31	SU
MR-AP-MW-4	Temperature	3/15/2022 8:41	18.45	C
MR-AP-MW-4	Turbidity	3/15/2022 8:41	0.6	NTU
MR-AP-MW-4	Conductivity	3/15/2022 8:46	1065.32	uS/cm
MR-AP-MW-4	DO	3/15/2022 8:46	0.51	mg/L
MR-AP-MW-4	Depth to Water Detail	3/15/2022 8:46	50.8	ft
MR-AP-MW-4	Oxidation Reduction Potential	3/15/2022 8:46	42.39	mv
MR-AP-MW-4	pH	3/15/2022 8:46	6.27	SU
MR-AP-MW-4	Temperature	3/15/2022 8:46	18.36	C
MR-AP-MW-4	Turbidity	3/15/2022 8:46	0.57	NTU

**Groundwater Field Parameters  
Plant Miller Ash Pond**

<b>WELL ID</b>	<b>DESCRIPTION</b>	<b>TIME OF READING</b>	<b>VALUE</b>	<b>UNIT</b>
MR-AP-MW-4V	Conductivity	3/15/2022 9:20	1376.56	uS/cm
MR-AP-MW-4V	DO	3/15/2022 9:20	0.55	mg/L
MR-AP-MW-4V	Depth to Water Detail	3/15/2022 9:20	91.84	ft
MR-AP-MW-4V	Oxidation Reduction Potential	3/15/2022 9:20	20.4	mv
MR-AP-MW-4V	pH	3/15/2022 9:20	6.71	SU
MR-AP-MW-4V	Temperature	3/15/2022 9:20	17.95	C
MR-AP-MW-4V	Turbidity	3/15/2022 9:20	3.21	NTU
MR-AP-MW-4V	Conductivity	3/15/2022 9:25	1385.07	uS/cm
MR-AP-MW-4V	DO	3/15/2022 9:25	0.44	mg/L
MR-AP-MW-4V	Depth to Water Detail	3/15/2022 9:25	91.89	ft
MR-AP-MW-4V	Oxidation Reduction Potential	3/15/2022 9:25	8.66	mv
MR-AP-MW-4V	pH	3/15/2022 9:25	6.7	SU
MR-AP-MW-4V	Temperature	3/15/2022 9:25	18	C
MR-AP-MW-4V	Turbidity	3/15/2022 9:25	0.5	NTU
MR-AP-MW-4V	Conductivity	3/15/2022 9:30	1388.05	uS/cm
MR-AP-MW-4V	DO	3/15/2022 9:30	0.43	mg/L
MR-AP-MW-4V	Depth to Water Detail	3/15/2022 9:30	91.89	ft
MR-AP-MW-4V	Oxidation Reduction Potential	3/15/2022 9:30	2.55	mv
MR-AP-MW-4V	pH	3/15/2022 9:30	6.69	SU
MR-AP-MW-4V	Temperature	3/15/2022 9:30	17.98	C
MR-AP-MW-4V	Turbidity	3/15/2022 9:30	0.41	NTU
MR-AP-MW-4V	Conductivity	3/15/2022 9:35	1384.38	uS/cm
MR-AP-MW-4V	DO	3/15/2022 9:35	0.41	mg/L
MR-AP-MW-4V	Depth to Water Detail	3/15/2022 9:35	91.89	ft
MR-AP-MW-4V	Oxidation Reduction Potential	3/15/2022 9:35	0.03	mv
MR-AP-MW-4V	pH	3/15/2022 9:35	6.68	SU
MR-AP-MW-4V	Temperature	3/15/2022 9:35	17.96	C
MR-AP-MW-4V	Turbidity	3/15/2022 9:35	0.31	NTU

**Groundwater Field Parameters  
Plant Miller Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-5	Conductivity	3/14/2022 12:47	1509.88	uS/cm
MR-AP-MW-5	DO	3/14/2022 12:47	0.22	mg/L
MR-AP-MW-5	Depth to Water Detail	3/14/2022 12:47	0	ft
MR-AP-MW-5	Oxidation Reduction Potential	3/14/2022 12:47	-55.92	mv
MR-AP-MW-5	pH	3/14/2022 12:47	6.84	SU
MR-AP-MW-5	Temperature	3/14/2022 12:47	16.01	C
MR-AP-MW-5	Turbidity	3/14/2022 12:47	0.36	NTU
MR-AP-MW-5	Conductivity	3/14/2022 12:52	1509.04	uS/cm
MR-AP-MW-5	DO	3/14/2022 12:52	0.21	mg/L
MR-AP-MW-5	Depth to Water Detail	3/14/2022 12:52	0	ft
MR-AP-MW-5	Oxidation Reduction Potential	3/14/2022 12:52	-61.38	mv
MR-AP-MW-5	pH	3/14/2022 12:52	6.88	SU
MR-AP-MW-5	Temperature	3/14/2022 12:52	16.12	C
MR-AP-MW-5	Turbidity	3/14/2022 12:52	0.3	NTU
MR-AP-MW-5	Conductivity	3/14/2022 12:57	1510.42	uS/cm
MR-AP-MW-5	DO	3/14/2022 12:57	0.21	mg/L
MR-AP-MW-5	Depth to Water Detail	3/14/2022 12:57	0	ft
MR-AP-MW-5	Oxidation Reduction Potential	3/14/2022 12:57	-64.76	mv
MR-AP-MW-5	pH	3/14/2022 12:57	6.91	SU
MR-AP-MW-5	Temperature	3/14/2022 12:57	16.14	C
MR-AP-MW-5	Turbidity	3/14/2022 12:57	0.25	NTU
MR-AP-MW-5	Conductivity	3/14/2022 13:02	1511.6	uS/cm
MR-AP-MW-5	DO	3/14/2022 13:02	0.21	mg/L
MR-AP-MW-5	Depth to Water Detail	3/14/2022 13:02	0	ft
MR-AP-MW-5	Oxidation Reduction Potential	3/14/2022 13:02	-66.96	mv
MR-AP-MW-5	pH	3/14/2022 13:02	6.92	SU
MR-AP-MW-5	Temperature	3/14/2022 13:02	16.08	C
MR-AP-MW-5	Turbidity	3/14/2022 13:02	0.31	NTU



**Groundwater Field Parameters  
Plant Miller Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-33H	Conductivity	3/14/2022 11:01	1170.4	uS/cm
MR-AP-MW-33H	DO	3/14/2022 11:01	0.92	mg/L
MR-AP-MW-33H	Depth to Water Detail	3/14/2022 11:01	18.97	ft
MR-AP-MW-33H	Oxidation Reduction Potential	3/14/2022 11:01	-7.35	mv
MR-AP-MW-33H	pH	3/14/2022 11:01	6.27	SU
MR-AP-MW-33H	Temperature	3/14/2022 11:01	15.84	C
MR-AP-MW-33H	Turbidity	3/14/2022 11:01	25.3	NTU
MR-AP-MW-33H	Conductivity	3/14/2022 11:06	1173.32	uS/cm
MR-AP-MW-33H	DO	3/14/2022 11:06	0.8	mg/L
MR-AP-MW-33H	Depth to Water Detail	3/14/2022 11:06	19.27	ft
MR-AP-MW-33H	Oxidation Reduction Potential	3/14/2022 11:06	-6.21	mv
MR-AP-MW-33H	pH	3/14/2022 11:06	6.3	SU
MR-AP-MW-33H	Temperature	3/14/2022 11:06	16.08	C
MR-AP-MW-33H	Turbidity	3/14/2022 11:06	10.67	NTU
MR-AP-MW-33H	Conductivity	3/14/2022 11:11	1173.87	uS/cm
MR-AP-MW-33H	DO	3/14/2022 11:11	0.75	mg/L
MR-AP-MW-33H	Depth to Water Detail	3/14/2022 11:11	19.46	ft
MR-AP-MW-33H	Oxidation Reduction Potential	3/14/2022 11:11	-6.48	mv
MR-AP-MW-33H	pH	3/14/2022 11:11	6.31	SU
MR-AP-MW-33H	Temperature	3/14/2022 11:11	16.06	C
MR-AP-MW-33H	Turbidity	3/14/2022 11:11	4.13	NTU
MR-AP-MW-33H	Conductivity	3/14/2022 11:16	1174.58	uS/cm
MR-AP-MW-33H	DO	3/14/2022 11:16	0.72	mg/L
MR-AP-MW-33H	Depth to Water Detail	3/14/2022 11:16	19.62	ft
MR-AP-MW-33H	Oxidation Reduction Potential	3/14/2022 11:16	-6.55	mv
MR-AP-MW-33H	pH	3/14/2022 11:16	6.33	SU
MR-AP-MW-33H	Temperature	3/14/2022 11:16	16.16	C
MR-AP-MW-33H	Turbidity	3/14/2022 11:16	5.32	NTU
MR-AP-MW-33H	Conductivity	3/14/2022 11:21	1174.32	uS/cm
MR-AP-MW-33H	DO	3/14/2022 11:21	0.74	mg/L
MR-AP-MW-33H	Depth to Water Detail	3/14/2022 11:21	19.74	ft
MR-AP-MW-33H	Oxidation Reduction Potential	3/14/2022 11:21	-6.71	mv
MR-AP-MW-33H	pH	3/14/2022 11:21	6.36	SU
MR-AP-MW-33H	Temperature	3/14/2022 11:21	16.19	C
MR-AP-MW-33H	Turbidity	3/14/2022 11:21	51.8	NTU
MR-AP-MW-33H	Conductivity	3/14/2022 11:26	1174.33	uS/cm
MR-AP-MW-33H	DO	3/14/2022 11:26	0.79	mg/L
MR-AP-MW-33H	Depth to Water Detail	3/14/2022 11:26	19.85	ft
MR-AP-MW-33H	Oxidation Reduction Potential	3/14/2022 11:26	-4.97	mv
MR-AP-MW-33H	pH	3/14/2022 11:26	6.39	SU
MR-AP-MW-33H	Temperature	3/14/2022 11:26	16.23	C
MR-AP-MW-33H	Turbidity	3/14/2022 11:26	100.4	NTU
MR-AP-MW-33H	Conductivity	3/14/2022 11:31	1173.36	uS/cm
MR-AP-MW-33H	DO	3/14/2022 11:31	0.85	mg/L
MR-AP-MW-33H	Depth to Water Detail	3/14/2022 11:31	19.9	ft

**Groundwater Field Parameters  
Plant Miller Ash Pond**

<b>WELL ID</b>	<b>DESCRIPTION</b>	<b>TIME OF READING</b>	<b>VALUE</b>	<b>UNIT</b>
MR-AP-MW-33H	Oxidation Reduction Potention	3/14/2022 11:31	-4.16	mv
MR-AP-MW-33H	pH	3/14/2022 11:31	6.41	SU
MR-AP-MW-33H	Temperature	3/14/2022 11:31	16.27	C
MR-AP-MW-33H	Turbidity	3/14/2022 11:31	39.9	NTU
MR-AP-MW-33H	Conductivity	3/14/2022 11:36	1174.82	uS/cm
MR-AP-MW-33H	DO	3/14/2022 11:36	0.88	mg/L
MR-AP-MW-33H	Depth to Water Detail	3/14/2022 11:36	19.93	ft
MR-AP-MW-33H	Oxidation Reduction Potention	3/14/2022 11:36	-3.26	mv
MR-AP-MW-33H	pH	3/14/2022 11:36	6.44	SU
MR-AP-MW-33H	Temperature	3/14/2022 11:36	16.33	C
MR-AP-MW-33H	Turbidity	3/14/2022 11:36	18.5	NTU
MR-AP-MW-33H	Conductivity	3/14/2022 11:41	1184.1	uS/cm
MR-AP-MW-33H	DO	3/14/2022 11:41	0.84	mg/L
MR-AP-MW-33H	Depth to Water Detail	3/14/2022 11:41	19.96	ft
MR-AP-MW-33H	Oxidation Reduction Potention	3/14/2022 11:41	-3.19	mv
MR-AP-MW-33H	pH	3/14/2022 11:41	6.45	SU
MR-AP-MW-33H	Temperature	3/14/2022 11:41	16.52	C
MR-AP-MW-33H	Turbidity	3/14/2022 11:41	13.1	NTU
MR-AP-MW-33H	Conductivity	3/14/2022 11:46	1177.6	uS/cm
MR-AP-MW-33H	DO	3/14/2022 11:46	0.83	mg/L
MR-AP-MW-33H	Depth to Water Detail	3/14/2022 11:46	19.99	ft
MR-AP-MW-33H	Oxidation Reduction Potention	3/14/2022 11:46	-4.29	mv
MR-AP-MW-33H	pH	3/14/2022 11:46	6.48	SU
MR-AP-MW-33H	Temperature	3/14/2022 11:46	16.52	C
MR-AP-MW-33H	Turbidity	3/14/2022 11:46	7.3	NTU
MR-AP-MW-33H	Conductivity	3/14/2022 11:51	1179.06	uS/cm
MR-AP-MW-33H	DO	3/14/2022 11:51	0.82	mg/L
MR-AP-MW-33H	Depth to Water Detail	3/14/2022 11:51	20	ft
MR-AP-MW-33H	Oxidation Reduction Potention	3/14/2022 11:51	-4.57	mv
MR-AP-MW-33H	pH	3/14/2022 11:51	6.5	SU
MR-AP-MW-33H	Temperature	3/14/2022 11:51	16.63	C
MR-AP-MW-33H	Turbidity	3/14/2022 11:51	4.32	NTU

**Groundwater Field Parameters  
Plant Miller Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-PZ-5	Conductivity	3/14/2022 13:55	1164.52	uS/cm
MR-AP-PZ-5	DO	3/14/2022 13:55	0.56	mg/L
MR-AP-PZ-5	Depth to Water Detail	3/14/2022 13:55	2.34	ft
MR-AP-PZ-5	Oxidation Reduction Potention	3/14/2022 13:55	-224.66	mv
MR-AP-PZ-5	pH	3/14/2022 13:55	8.27	SU
MR-AP-PZ-5	Temperature	3/14/2022 13:55	16.12	C
MR-AP-PZ-5	Turbidity	3/14/2022 13:55	0.21	NTU
MR-AP-PZ-5	Conductivity	3/14/2022 14:00	1182.02	uS/cm
MR-AP-PZ-5	DO	3/14/2022 14:00	0.47	mg/L
MR-AP-PZ-5	Depth to Water Detail	3/14/2022 14:00	3.36	ft
MR-AP-PZ-5	Oxidation Reduction Potention	3/14/2022 14:00	-254.52	mv
MR-AP-PZ-5	pH	3/14/2022 14:00	8.33	SU
MR-AP-PZ-5	Temperature	3/14/2022 14:00	16.31	C
MR-AP-PZ-5	Turbidity	3/14/2022 14:00	0.19	NTU
MR-AP-PZ-5	Conductivity	3/14/2022 14:05	1149.56	uS/cm
MR-AP-PZ-5	DO	3/14/2022 14:05	0.46	mg/L
MR-AP-PZ-5	Depth to Water Detail	3/14/2022 14:05	4.2	ft
MR-AP-PZ-5	Oxidation Reduction Potention	3/14/2022 14:05	-280.64	mv
MR-AP-PZ-5	pH	3/14/2022 14:05	8.38	SU
MR-AP-PZ-5	Temperature	3/14/2022 14:05	16.38	C
MR-AP-PZ-5	Turbidity	3/14/2022 14:05	0.15	NTU
MR-AP-PZ-5	Conductivity	3/14/2022 14:10	1110.06	uS/cm
MR-AP-PZ-5	DO	3/14/2022 14:10	0.36	mg/L
MR-AP-PZ-5	Depth to Water Detail	3/14/2022 14:10	5.96	ft
MR-AP-PZ-5	Oxidation Reduction Potention	3/14/2022 14:10	-294.67	mv
MR-AP-PZ-5	pH	3/14/2022 14:10	8.4	SU
MR-AP-PZ-5	Temperature	3/14/2022 14:10	16.46	C
MR-AP-PZ-5	Turbidity	3/14/2022 14:10	0.14	NTU
MR-AP-PZ-5	Conductivity	3/14/2022 14:15	1072.61	uS/cm
MR-AP-PZ-5	DO	3/14/2022 14:15	0.42	mg/L
MR-AP-PZ-5	Depth to Water Detail	3/14/2022 14:15	6.42	ft
MR-AP-PZ-5	Oxidation Reduction Potention	3/14/2022 14:15	-298.68	mv
MR-AP-PZ-5	pH	3/14/2022 14:15	8.41	SU
MR-AP-PZ-5	Temperature	3/14/2022 14:15	16.37	C
MR-AP-PZ-5	Turbidity	3/14/2022 14:15	0.16	NTU
MR-AP-PZ-5	Conductivity	3/14/2022 14:20	1028.28	uS/cm
MR-AP-PZ-5	DO	3/14/2022 14:20	0.44	mg/L
MR-AP-PZ-5	Depth to Water Detail	3/14/2022 14:20	6.95	ft
MR-AP-PZ-5	Oxidation Reduction Potention	3/14/2022 14:20	-300.89	mv
MR-AP-PZ-5	pH	3/14/2022 14:20	8.43	SU
MR-AP-PZ-5	Temperature	3/14/2022 14:20	16.39	C
MR-AP-PZ-5	Turbidity	3/14/2022 14:20	0.68	NTU
MR-AP-PZ-5	Conductivity	3/14/2022 14:25	980.76	uS/cm
MR-AP-PZ-5	DO	3/14/2022 14:25	0.55	mg/L
MR-AP-PZ-5	Depth to Water Detail	3/14/2022 14:25	7.14	ft

**Groundwater Field Parameters  
Plant Miller Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-PZ-5	Oxidation Reduction Potention	3/14/2022 14:25	-301.06	mv
MR-AP-PZ-5	pH	3/14/2022 14:25	8.45	SU
MR-AP-PZ-5	Temperature	3/14/2022 14:25	16.36	C
MR-AP-PZ-5	Turbidity	3/14/2022 14:25	0.28	NTU
MR-AP-PZ-5	Conductivity	3/14/2022 14:30	1151.05	uS/cm
MR-AP-PZ-5	DO	3/14/2022 14:30	0.63	mg/L
MR-AP-PZ-5	Depth to Water Detail	3/14/2022 14:30	7.3	ft
MR-AP-PZ-5	Oxidation Reduction Potention	3/14/2022 14:30	-300.95	mv
MR-AP-PZ-5	pH	3/14/2022 14:30	8.44	SU
MR-AP-PZ-5	Temperature	3/14/2022 14:30	16.15	C
MR-AP-PZ-5	Turbidity	3/14/2022 14:30	0.05	NTU
MR-AP-PZ-5	Conductivity	3/14/2022 14:35	1113.81	uS/cm
MR-AP-PZ-5	DO	3/14/2022 14:35	0.63	mg/L
MR-AP-PZ-5	Depth to Water Detail	3/14/2022 14:35	7.41	ft
MR-AP-PZ-5	Oxidation Reduction Potention	3/14/2022 14:35	-301.02	mv
MR-AP-PZ-5	pH	3/14/2022 14:35	8.44	SU
MR-AP-PZ-5	Temperature	3/14/2022 14:35	16.14	C
MR-AP-PZ-5	Turbidity	3/14/2022 14:35	0.01	NTU
MR-AP-PZ-5	Conductivity	3/14/2022 14:40	1072.84	uS/cm
MR-AP-PZ-5	DO	3/14/2022 14:40	0.61	mg/L
MR-AP-PZ-5	Depth to Water Detail	3/14/2022 14:40	7.58	ft
MR-AP-PZ-5	Oxidation Reduction Potention	3/14/2022 14:40	-302.66	mv
MR-AP-PZ-5	pH	3/14/2022 14:40	8.46	SU
MR-AP-PZ-5	Temperature	3/14/2022 14:40	16.16	C
MR-AP-PZ-5	Turbidity	3/14/2022 14:40	0.01	NTU
MR-AP-PZ-5	Conductivity	3/14/2022 14:45	1216.2	uS/cm
MR-AP-PZ-5	DO	3/14/2022 14:45	0.66	mg/L
MR-AP-PZ-5	Depth to Water Detail	3/14/2022 14:45	7.7	ft
MR-AP-PZ-5	Oxidation Reduction Potention	3/14/2022 14:45	-303.57	mv
MR-AP-PZ-5	pH	3/14/2022 14:45	8.47	SU
MR-AP-PZ-5	Temperature	3/14/2022 14:45	16.16	C
MR-AP-PZ-5	Turbidity	3/14/2022 14:45	0.21	NTU
MR-AP-PZ-5	Conductivity	3/14/2022 14:50	1224.18	uS/cm
MR-AP-PZ-5	DO	3/14/2022 14:50	0.69	mg/L
MR-AP-PZ-5	Depth to Water Detail	3/14/2022 14:50	7.82	ft
MR-AP-PZ-5	Oxidation Reduction Potention	3/14/2022 14:50	-304.21	mv
MR-AP-PZ-5	pH	3/14/2022 14:50	8.46	SU
MR-AP-PZ-5	Temperature	3/14/2022 14:50	16.55	C
MR-AP-PZ-5	Turbidity	3/14/2022 14:50	0.03	NTU
MR-AP-PZ-5	Conductivity	3/14/2022 14:55	1231.92	uS/cm
MR-AP-PZ-5	DO	3/14/2022 14:55	0.63	mg/L
MR-AP-PZ-5	Depth to Water Detail	3/14/2022 14:55	7.95	ft
MR-AP-PZ-5	Oxidation Reduction Potention	3/14/2022 14:55	-307.2	mv
MR-AP-PZ-5	pH	3/14/2022 14:55	8.47	SU
MR-AP-PZ-5	Temperature	3/14/2022 14:55	16.78	C

**Groundwater Field Parameters  
Plant Miller Ash Pond**

<b>WELL ID</b>	<b>DESCRIPTION</b>	<b>TIME OF READING</b>	<b>VALUE</b>	<b>UNIT</b>
MR-AP-PZ-5	Turbidity	3/14/2022 14:55	0.01	NTU

**Groundwater Field Parameters  
Plant Miller Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-2	Conductivity	3/16/2022 15:05	1428.23	uS/cm
MR-AP-MW-2	DO	3/16/2022 15:05	2.3	mg/L
MR-AP-MW-2	Depth to Water Detail	3/16/2022 15:05	202.61	ft
MR-AP-MW-2	Oxidation Reduction Potential	3/16/2022 15:05	136.83	mv
MR-AP-MW-2	pH	3/16/2022 15:05	5.61	SU
MR-AP-MW-2	Temperature	3/16/2022 15:05	19.27	C
MR-AP-MW-2	Turbidity	3/16/2022 15:05	3.5	NTU
MR-AP-MW-2	Conductivity	3/16/2022 15:10	1220.1	uS/cm
MR-AP-MW-2	DO	3/16/2022 15:10	1.36	mg/L
MR-AP-MW-2	Depth to Water Detail	3/16/2022 15:10	202.78	ft
MR-AP-MW-2	Oxidation Reduction Potential	3/16/2022 15:10	49.65	mv
MR-AP-MW-2	pH	3/16/2022 15:10	6	SU
MR-AP-MW-2	Temperature	3/16/2022 15:10	18.95	C
MR-AP-MW-2	Turbidity	3/16/2022 15:10	0.52	NTU
MR-AP-MW-2	Conductivity	3/16/2022 15:15	1443.21	uS/cm
MR-AP-MW-2	DO	3/16/2022 15:15	1.2	mg/L
MR-AP-MW-2	Depth to Water Detail	3/16/2022 15:15	202.85	ft
MR-AP-MW-2	Oxidation Reduction Potential	3/16/2022 15:15	27.05	mv
MR-AP-MW-2	pH	3/16/2022 15:15	5.91	SU
MR-AP-MW-2	Temperature	3/16/2022 15:15	19.17	C
MR-AP-MW-2	Turbidity	3/16/2022 15:15	0.8	NTU
MR-AP-MW-2	Conductivity	3/16/2022 15:20	1976.99	uS/cm
MR-AP-MW-2	DO	3/16/2022 15:20	1.16	mg/L
MR-AP-MW-2	Depth to Water Detail	3/16/2022 15:20	202.85	ft
MR-AP-MW-2	Oxidation Reduction Potential	3/16/2022 15:20	14.94	mv
MR-AP-MW-2	pH	3/16/2022 15:20	5.84	SU
MR-AP-MW-2	Temperature	3/16/2022 15:20	18.91	C
MR-AP-MW-2	Turbidity	3/16/2022 15:20	0.27	NTU
MR-AP-MW-2	Conductivity	3/16/2022 15:25	2469.25	uS/cm
MR-AP-MW-2	DO	3/16/2022 15:25	1.11	mg/L
MR-AP-MW-2	Depth to Water Detail	3/16/2022 15:25	202.85	ft
MR-AP-MW-2	Oxidation Reduction Potential	3/16/2022 15:25	3.1	mv
MR-AP-MW-2	pH	3/16/2022 15:25	5.92	SU
MR-AP-MW-2	Temperature	3/16/2022 15:25	18.65	C
MR-AP-MW-2	Turbidity	3/16/2022 15:25	0.13	NTU
MR-AP-MW-2	Conductivity	3/16/2022 15:30	2632.73	uS/cm
MR-AP-MW-2	DO	3/16/2022 15:30	1.05	mg/L
MR-AP-MW-2	Depth to Water Detail	3/16/2022 15:30	202.85	ft
MR-AP-MW-2	Oxidation Reduction Potential	3/16/2022 15:30	-6.86	mv
MR-AP-MW-2	pH	3/16/2022 15:30	6.02	SU
MR-AP-MW-2	Temperature	3/16/2022 15:30	18.8	C
MR-AP-MW-2	Turbidity	3/16/2022 15:30	0.16	NTU
MR-AP-MW-2	Conductivity	3/16/2022 15:35	2714.55	uS/cm
MR-AP-MW-2	DO	3/16/2022 15:35	1.03	mg/L
MR-AP-MW-2	Depth to Water Detail	3/16/2022 15:35	202.85	ft

**Groundwater Field Parameters  
Plant Miller Ash Pond**

<b>WELL ID</b>	<b>DESCRIPTION</b>	<b>TIME OF READING</b>	<b>VALUE</b>	<b>UNIT</b>
MR-AP-MW-2	Oxidation Reduction Potention	3/16/2022 15:35	-13.66	mv
MR-AP-MW-2	pH	3/16/2022 15:35	6.1	SU
MR-AP-MW-2	Temperature	3/16/2022 15:35	18.44	C
MR-AP-MW-2	Turbidity	3/16/2022 15:35	0.36	NTU
MR-AP-MW-2	Conductivity	3/16/2022 15:40	2749.84	uS/cm
MR-AP-MW-2	DO	3/16/2022 15:40	1.02	mg/L
MR-AP-MW-2	Depth to Water Detail	3/16/2022 15:40	202.85	ft
MR-AP-MW-2	Oxidation Reduction Potention	3/16/2022 15:40	-18.51	mv
MR-AP-MW-2	pH	3/16/2022 15:40	6.14	SU
MR-AP-MW-2	Temperature	3/16/2022 15:40	18.45	C
MR-AP-MW-2	Turbidity	3/16/2022 15:40	0.15	NTU

**Groundwater Field Parameters  
Plant Miller Ash Pond**

<b>WELL ID</b>	<b>DESCRIPTION</b>	<b>TIME OF READING</b>	<b>VALUE</b>	<b>UNIT</b>
MR-AP-MW-3D	Conductivity	3/16/2022 13:41	1062.01	uS/cm
MR-AP-MW-3D	DO	3/16/2022 13:41	1.17	mg/L
MR-AP-MW-3D	Depth to Water Detail	3/16/2022 13:41	108.3	ft
MR-AP-MW-3D	Oxidation Reduction Potential	3/16/2022 13:41	-24.66	mv
MR-AP-MW-3D	pH	3/16/2022 13:41	7.26	SU
MR-AP-MW-3D	Temperature	3/16/2022 13:41	17.63	C
MR-AP-MW-3D	Turbidity	3/16/2022 13:41	12.22	NTU
MR-AP-MW-3D	Conductivity	3/16/2022 13:46	1032.6	uS/cm
MR-AP-MW-3D	DO	3/16/2022 13:46	0.87	mg/L
MR-AP-MW-3D	Depth to Water Detail	3/16/2022 13:46	108.3	ft
MR-AP-MW-3D	Oxidation Reduction Potential	3/16/2022 13:46	-31.68	mv
MR-AP-MW-3D	pH	3/16/2022 13:46	7.11	SU
MR-AP-MW-3D	Temperature	3/16/2022 13:46	17.6	C
MR-AP-MW-3D	Turbidity	3/16/2022 13:46	4.99	NTU
MR-AP-MW-3D	Conductivity	3/16/2022 13:51	1029.66	uS/cm
MR-AP-MW-3D	DO	3/16/2022 13:51	0.81	mg/L
MR-AP-MW-3D	Depth to Water Detail	3/16/2022 13:51	108.3	ft
MR-AP-MW-3D	Oxidation Reduction Potential	3/16/2022 13:51	-36.17	mv
MR-AP-MW-3D	pH	3/16/2022 13:51	7.08	SU
MR-AP-MW-3D	Temperature	3/16/2022 13:51	17.49	C
MR-AP-MW-3D	Turbidity	3/16/2022 13:51	4.24	NTU
MR-AP-MW-3D	Conductivity	3/16/2022 13:56	1029.04	uS/cm
MR-AP-MW-3D	DO	3/16/2022 13:56	0.71	mg/L
MR-AP-MW-3D	Depth to Water Detail	3/16/2022 13:56	108.3	ft
MR-AP-MW-3D	Oxidation Reduction Potential	3/16/2022 13:56	-37.65	mv
MR-AP-MW-3D	pH	3/16/2022 13:56	7.04	SU
MR-AP-MW-3D	Temperature	3/16/2022 13:56	17.55	C
MR-AP-MW-3D	Turbidity	3/16/2022 13:56	3.78	NTU



**Groundwater Field Parameters  
Plant Miller Ash Pond**

<b>WELL ID</b>	<b>DESCRIPTION</b>	<b>TIME OF READING</b>	<b>VALUE</b>	<b>UNIT</b>
MR-AP-MW-3S	Conductivity	3/16/2022 12:19	1163.49	uS/cm
MR-AP-MW-3S	DO	3/16/2022 12:19	1.47	mg/L
MR-AP-MW-3S	Depth to Water Detail	3/16/2022 12:19	89.37	ft
MR-AP-MW-3S	Oxidation Reduction Potential	3/16/2022 12:19	-134.32	mv
MR-AP-MW-3S	pH	3/16/2022 12:19	8.98	SU
MR-AP-MW-3S	Temperature	3/16/2022 12:19	17.03	C
MR-AP-MW-3S	Turbidity	3/16/2022 12:19	1.06	NTU
MR-AP-MW-3S	Conductivity	3/16/2022 12:24	1134.54	uS/cm
MR-AP-MW-3S	DO	3/16/2022 12:24	1.06	mg/L
MR-AP-MW-3S	Depth to Water Detail	3/16/2022 12:24	89.49	ft
MR-AP-MW-3S	Oxidation Reduction Potential	3/16/2022 12:24	-132.17	mv
MR-AP-MW-3S	pH	3/16/2022 12:24	9.01	SU
MR-AP-MW-3S	Temperature	3/16/2022 12:24	16.83	C
MR-AP-MW-3S	Turbidity	3/16/2022 12:24	0.68	NTU
MR-AP-MW-3S	Conductivity	3/16/2022 12:29	1131.27	uS/cm
MR-AP-MW-3S	DO	3/16/2022 12:29	0.92	mg/L
MR-AP-MW-3S	Depth to Water Detail	3/16/2022 12:29	89.56	ft
MR-AP-MW-3S	Oxidation Reduction Potential	3/16/2022 12:29	-131.94	mv
MR-AP-MW-3S	pH	3/16/2022 12:29	9.02	SU
MR-AP-MW-3S	Temperature	3/16/2022 12:29	16.91	C
MR-AP-MW-3S	Turbidity	3/16/2022 12:29	0.42	NTU
MR-AP-MW-3S	Conductivity	3/16/2022 12:34	1137.62	uS/cm
MR-AP-MW-3S	DO	3/16/2022 12:34	0.85	mg/L
MR-AP-MW-3S	Depth to Water Detail	3/16/2022 12:34	89.62	ft
MR-AP-MW-3S	Oxidation Reduction Potential	3/16/2022 12:34	-132.54	mv
MR-AP-MW-3S	pH	3/16/2022 12:34	9.03	SU
MR-AP-MW-3S	Temperature	3/16/2022 12:34	16.98	C
MR-AP-MW-3S	Turbidity	3/16/2022 12:34	0.29	NTU
MR-AP-MW-3S	Conductivity	3/16/2022 12:39	1141.44	uS/cm
MR-AP-MW-3S	DO	3/16/2022 12:39	0.82	mg/L
MR-AP-MW-3S	Depth to Water Detail	3/16/2022 12:39	89.66	ft
MR-AP-MW-3S	Oxidation Reduction Potential	3/16/2022 12:39	-134.4	mv
MR-AP-MW-3S	pH	3/16/2022 12:39	9.05	SU
MR-AP-MW-3S	Temperature	3/16/2022 12:39	16.91	C
MR-AP-MW-3S	Turbidity	3/16/2022 12:39	0.23	NTU

**Groundwater Field Parameters  
Plant Miller Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-6V	Conductivity	3/16/2022 10:01	1499.8	uS/cm
MR-AP-MW-6V	DO	3/16/2022 10:01	2.16	mg/L
MR-AP-MW-6V	Depth to Water Detail	3/16/2022 10:01	115.53	ft
MR-AP-MW-6V	Oxidation Reduction Potential	3/16/2022 10:01	-23.42	mv
MR-AP-MW-6V	pH	3/16/2022 10:01	7.03	SU
MR-AP-MW-6V	Temperature	3/16/2022 10:01	17.3	C
MR-AP-MW-6V	Turbidity	3/16/2022 10:01	25.4	NTU
MR-AP-MW-6V	Conductivity	3/16/2022 10:06	1535.28	uS/cm
MR-AP-MW-6V	DO	3/16/2022 10:06	1.33	mg/L
MR-AP-MW-6V	Depth to Water Detail	3/16/2022 10:06	115.56	ft
MR-AP-MW-6V	Oxidation Reduction Potential	3/16/2022 10:06	-27.39	mv
MR-AP-MW-6V	pH	3/16/2022 10:06	7.13	SU
MR-AP-MW-6V	Temperature	3/16/2022 10:06	17.31	C
MR-AP-MW-6V	Turbidity	3/16/2022 10:06	18.7	NTU
MR-AP-MW-6V	Conductivity	3/16/2022 10:11	1444.15	uS/cm
MR-AP-MW-6V	DO	3/16/2022 10:11	1.2	mg/L
MR-AP-MW-6V	Depth to Water Detail	3/16/2022 10:11	115.58	ft
MR-AP-MW-6V	Oxidation Reduction Potential	3/16/2022 10:11	-28.83	mv
MR-AP-MW-6V	pH	3/16/2022 10:11	7.14	SU
MR-AP-MW-6V	Temperature	3/16/2022 10:11	17.37	C
MR-AP-MW-6V	Turbidity	3/16/2022 10:11	12.1	NTU
MR-AP-MW-6V	Conductivity	3/16/2022 10:16	1243.05	uS/cm
MR-AP-MW-6V	DO	3/16/2022 10:16	1.39	mg/L
MR-AP-MW-6V	Depth to Water Detail	3/16/2022 10:16	115.58	ft
MR-AP-MW-6V	Oxidation Reduction Potential	3/16/2022 10:16	-27.39	mv
MR-AP-MW-6V	pH	3/16/2022 10:16	7.11	SU
MR-AP-MW-6V	Temperature	3/16/2022 10:16	17.41	C
MR-AP-MW-6V	Turbidity	3/16/2022 10:16	9.48	NTU
MR-AP-MW-6V	Conductivity	3/16/2022 10:21	1119.58	uS/cm
MR-AP-MW-6V	DO	3/16/2022 10:21	1.58	mg/L
MR-AP-MW-6V	Depth to Water Detail	3/16/2022 10:21	115.58	ft
MR-AP-MW-6V	Oxidation Reduction Potential	3/16/2022 10:21	-23.43	mv
MR-AP-MW-6V	pH	3/16/2022 10:21	7.07	SU
MR-AP-MW-6V	Temperature	3/16/2022 10:21	17.4	C
MR-AP-MW-6V	Turbidity	3/16/2022 10:21	4.23	NTU
MR-AP-MW-6V	Conductivity	3/16/2022 10:26	1061.9	uS/cm
MR-AP-MW-6V	DO	3/16/2022 10:26	1.56	mg/L
MR-AP-MW-6V	Depth to Water Detail	3/16/2022 10:26	115.58	ft
MR-AP-MW-6V	Oxidation Reduction Potential	3/16/2022 10:26	-22.03	mv
MR-AP-MW-6V	pH	3/16/2022 10:26	7.08	SU
MR-AP-MW-6V	Temperature	3/16/2022 10:26	17.44	C
MR-AP-MW-6V	Turbidity	3/16/2022 10:26	3.82	NTU
MR-AP-MW-6V	Conductivity	3/16/2022 10:31	1015.89	uS/cm
MR-AP-MW-6V	DO	3/16/2022 10:31	1.46	mg/L
MR-AP-MW-6V	Depth to Water Detail	3/16/2022 10:31	115.58	ft

**Groundwater Field Parameters  
Plant Miller Ash Pond**

<b>WELL ID</b>	<b>DESCRIPTION</b>	<b>TIME OF READING</b>	<b>VALUE</b>	<b>UNIT</b>
MR-AP-MW-6V	Oxidation Reduction Potention	3/16/2022 10:31	-23.12	mv
MR-AP-MW-6V	pH	3/16/2022 10:31	7.1	SU
MR-AP-MW-6V	Temperature	3/16/2022 10:31	17.48	C
MR-AP-MW-6V	Turbidity	3/16/2022 10:31	1.96	NTU
MR-AP-MW-6V	Conductivity	3/16/2022 10:36	986.83	uS/cm
MR-AP-MW-6V	DO	3/16/2022 10:36	1.45	mg/L
MR-AP-MW-6V	Depth to Water Detail	3/16/2022 10:36	115.58	ft
MR-AP-MW-6V	Oxidation Reduction Potention	3/16/2022 10:36	-26.42	mv
MR-AP-MW-6V	pH	3/16/2022 10:36	7.13	SU
MR-AP-MW-6V	Temperature	3/16/2022 10:36	17.47	C
MR-AP-MW-6V	Turbidity	3/16/2022 10:36	1.93	NTU
MR-AP-MW-6V	Conductivity	3/16/2022 10:41	964.39	uS/cm
MR-AP-MW-6V	DO	3/16/2022 10:41	1.37	mg/L
MR-AP-MW-6V	Depth to Water Detail	3/16/2022 10:41	115.58	ft
MR-AP-MW-6V	Oxidation Reduction Potention	3/16/2022 10:41	-31.44	mv
MR-AP-MW-6V	pH	3/16/2022 10:41	7.15	SU
MR-AP-MW-6V	Temperature	3/16/2022 10:41	17.38	C
MR-AP-MW-6V	Turbidity	3/16/2022 10:41	1.84	NTU
MR-AP-MW-6V	Conductivity	3/16/2022 10:46	950.99	uS/cm
MR-AP-MW-6V	DO	3/16/2022 10:46	1.3	mg/L
MR-AP-MW-6V	Depth to Water Detail	3/16/2022 10:46	115.58	ft
MR-AP-MW-6V	Oxidation Reduction Potention	3/16/2022 10:46	-37.32	mv
MR-AP-MW-6V	pH	3/16/2022 10:46	7.17	SU
MR-AP-MW-6V	Temperature	3/16/2022 10:46	17.43	C
MR-AP-MW-6V	Turbidity	3/16/2022 10:46	1.76	NTU

**Groundwater Field Parameters  
Plant Miller Ash Pond**

<b>WELL ID</b>	<b>DESCRIPTION</b>	<b>TIME OF READING</b>	<b>VALUE</b>	<b>UNIT</b>
MR-AP-MW-10	Conductivity	3/17/2022 7:33	1823.44	uS/cm
MR-AP-MW-10	DO	3/17/2022 7:33	2.34	mg/L
MR-AP-MW-10	Depth to Water Detail	3/17/2022 7:33	141.51	ft
MR-AP-MW-10	Oxidation Reduction Potential	3/17/2022 7:33	48.32	mv
MR-AP-MW-10	pH	3/17/2022 7:33	7.16	SU
MR-AP-MW-10	Temperature	3/17/2022 7:33	15.47	C
MR-AP-MW-10	Turbidity	3/17/2022 7:33	6.57	NTU
MR-AP-MW-10	Conductivity	3/17/2022 7:38	1784.7	uS/cm
MR-AP-MW-10	DO	3/17/2022 7:38	1.23	mg/L
MR-AP-MW-10	Depth to Water Detail	3/17/2022 7:38	141.51	ft
MR-AP-MW-10	Oxidation Reduction Potential	3/17/2022 7:38	9.33	mv
MR-AP-MW-10	pH	3/17/2022 7:38	7.19	SU
MR-AP-MW-10	Temperature	3/17/2022 7:38	15.76	C
MR-AP-MW-10	Turbidity	3/17/2022 7:38	4.26	NTU
MR-AP-MW-10	Conductivity	3/17/2022 7:43	1776.35	uS/cm
MR-AP-MW-10	DO	3/17/2022 7:43	0.99	mg/L
MR-AP-MW-10	Depth to Water Detail	3/17/2022 7:43	141.51	ft
MR-AP-MW-10	Oxidation Reduction Potential	3/17/2022 7:43	-16.64	mv
MR-AP-MW-10	pH	3/17/2022 7:43	7.21	SU
MR-AP-MW-10	Temperature	3/17/2022 7:43	15.61	C
MR-AP-MW-10	Turbidity	3/17/2022 7:43	3.82	NTU
MR-AP-MW-10	Conductivity	3/17/2022 7:48	1780.58	uS/cm
MR-AP-MW-10	DO	3/17/2022 7:48	0.94	mg/L
MR-AP-MW-10	Depth to Water Detail	3/17/2022 7:48	141.51	ft
MR-AP-MW-10	Oxidation Reduction Potential	3/17/2022 7:48	-32.15	mv
MR-AP-MW-10	pH	3/17/2022 7:48	7.23	SU
MR-AP-MW-10	Temperature	3/17/2022 7:48	15.81	C
MR-AP-MW-10	Turbidity	3/17/2022 7:48	3.69	NTU
MR-AP-MW-10	Conductivity	3/17/2022 7:53	1779.08	uS/cm
MR-AP-MW-10	DO	3/17/2022 7:53	0.91	mg/L
MR-AP-MW-10	Depth to Water Detail	3/17/2022 7:53	141.51	ft
MR-AP-MW-10	Oxidation Reduction Potential	3/17/2022 7:53	-41.26	mv
MR-AP-MW-10	pH	3/17/2022 7:53	7.24	SU
MR-AP-MW-10	Temperature	3/17/2022 7:53	15.79	C
MR-AP-MW-10	Turbidity	3/17/2022 7:53	3.44	NTU

**Groundwater Field Parameters  
Plant Miller Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-21	Conductivity	3/17/2022 8:55	909.25	uS/cm
MR-AP-MW-21	DO	3/17/2022 8:55	0.79	mg/L
MR-AP-MW-21	Depth to Water Detail	3/17/2022 8:55	19.68	ft
MR-AP-MW-21	Oxidation Reduction Potention	3/17/2022 8:55	-120	mv
MR-AP-MW-21	pH	3/17/2022 8:55	7.75	SU
MR-AP-MW-21	Temperature	3/17/2022 8:55	17.13	C
MR-AP-MW-21	Turbidity	3/17/2022 8:55	6.19	NTU
MR-AP-MW-21	Conductivity	3/17/2022 9:00	857.76	uS/cm
MR-AP-MW-21	DO	3/17/2022 9:00	0.71	mg/L
MR-AP-MW-21	Depth to Water Detail	3/17/2022 9:00	19.68	ft
MR-AP-MW-21	Oxidation Reduction Potention	3/17/2022 9:00	-125.27	mv
MR-AP-MW-21	pH	3/17/2022 9:00	7.8	SU
MR-AP-MW-21	Temperature	3/17/2022 9:00	17.29	C
MR-AP-MW-21	Turbidity	3/17/2022 9:00	1.6	NTU
MR-AP-MW-21	Conductivity	3/17/2022 9:05	810.97	uS/cm
MR-AP-MW-21	DO	3/17/2022 9:05	0.71	mg/L
MR-AP-MW-21	Depth to Water Detail	3/17/2022 9:05	19.68	ft
MR-AP-MW-21	Oxidation Reduction Potention	3/17/2022 9:05	-123.02	mv
MR-AP-MW-21	pH	3/17/2022 9:05	7.76	SU
MR-AP-MW-21	Temperature	3/17/2022 9:05	17.34	C
MR-AP-MW-21	Turbidity	3/17/2022 9:05	1.63	NTU
MR-AP-MW-21	Conductivity	3/17/2022 9:10	784.5	uS/cm
MR-AP-MW-21	DO	3/17/2022 9:10	0.75	mg/L
MR-AP-MW-21	Depth to Water Detail	3/17/2022 9:10	19.68	ft
MR-AP-MW-21	Oxidation Reduction Potention	3/17/2022 9:10	-123.38	mv
MR-AP-MW-21	pH	3/17/2022 9:10	7.78	SU
MR-AP-MW-21	Temperature	3/17/2022 9:10	17.45	C
MR-AP-MW-21	Turbidity	3/17/2022 9:10	1.16	NTU
MR-AP-MW-21	Conductivity	3/17/2022 9:15	762.46	uS/cm
MR-AP-MW-21	DO	3/17/2022 9:15	0.74	mg/L
MR-AP-MW-21	Depth to Water Detail	3/17/2022 9:15	19.68	ft
MR-AP-MW-21	Oxidation Reduction Potention	3/17/2022 9:15	-120.45	mv
MR-AP-MW-21	pH	3/17/2022 9:15	7.73	SU
MR-AP-MW-21	Temperature	3/17/2022 9:15	17.52	C
MR-AP-MW-21	Turbidity	3/17/2022 9:15	1.12	NTU
MR-AP-MW-21	Conductivity	3/17/2022 9:20	747.65	uS/cm
MR-AP-MW-21	DO	3/17/2022 9:20	0.77	mg/L
MR-AP-MW-21	Depth to Water Detail	3/17/2022 9:20	19.68	ft
MR-AP-MW-21	Oxidation Reduction Potention	3/17/2022 9:20	-120.46	mv
MR-AP-MW-21	pH	3/17/2022 9:20	7.74	SU
MR-AP-MW-21	Temperature	3/17/2022 9:20	17.55	C
MR-AP-MW-21	Turbidity	3/17/2022 9:20	1.22	NTU
MR-AP-MW-21	Conductivity	3/17/2022 9:25	734.05	uS/cm
MR-AP-MW-21	DO	3/17/2022 9:25	0.76	mg/L
MR-AP-MW-21	Depth to Water Detail	3/17/2022 9:25	19.68	ft

**Groundwater Field Parameters  
Plant Miller Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-21	Oxidation Reduction Potention	3/17/2022 9:25	-118.41	mv
MR-AP-MW-21	pH	3/17/2022 9:25	7.72	SU
MR-AP-MW-21	Temperature	3/17/2022 9:25	17.7	C
MR-AP-MW-21	Turbidity	3/17/2022 9:25	0.83	NTU
MR-AP-MW-37H	Conductivity	3/17/2022 10:21	517.99	uS/cm
MR-AP-MW-37H	DO	3/17/2022 10:21	0.63	mg/L
MR-AP-MW-37H	Depth to Water Detail	3/17/2022 10:21	108.12	ft
MR-AP-MW-37H	Oxidation Reduction Potention	3/17/2022 10:21	-19.23	mv
MR-AP-MW-37H	pH	3/17/2022 10:21	6.93	SU
MR-AP-MW-37H	Temperature	3/17/2022 10:21	17.42	C
MR-AP-MW-37H	Turbidity	3/17/2022 10:21	4.73	NTU
MR-AP-MW-37H	Conductivity	3/17/2022 10:26	507.91	uS/cm
MR-AP-MW-37H	DO	3/17/2022 10:26	0.54	mg/L
MR-AP-MW-37H	Depth to Water Detail	3/17/2022 10:26	108.97	ft
MR-AP-MW-37H	Oxidation Reduction Potention	3/17/2022 10:26	-24.65	mv
MR-AP-MW-37H	pH	3/17/2022 10:26	6.93	SU
MR-AP-MW-37H	Temperature	3/17/2022 10:26	17.43	C
MR-AP-MW-37H	Turbidity	3/17/2022 10:26	3.55	NTU
MR-AP-MW-37H	Conductivity	3/17/2022 10:31	502.99	uS/cm
MR-AP-MW-37H	DO	3/17/2022 10:31	0.52	mg/L
MR-AP-MW-37H	Depth to Water Detail	3/17/2022 10:31	109.48	ft
MR-AP-MW-37H	Oxidation Reduction Potention	3/17/2022 10:31	-31.49	mv
MR-AP-MW-37H	pH	3/17/2022 10:31	6.96	SU
MR-AP-MW-37H	Temperature	3/17/2022 10:31	17.64	C
MR-AP-MW-37H	Turbidity	3/17/2022 10:31	2.38	NTU
MR-AP-MW-37H	Conductivity	3/17/2022 10:36	500.92	uS/cm
MR-AP-MW-37H	DO	3/17/2022 10:36	0.5	mg/L
MR-AP-MW-37H	Depth to Water Detail	3/17/2022 10:36	109.77	ft
MR-AP-MW-37H	Oxidation Reduction Potention	3/17/2022 10:36	-38.94	mv
MR-AP-MW-37H	pH	3/17/2022 10:36	7	SU
MR-AP-MW-37H	Temperature	3/17/2022 10:36	17.68	C
MR-AP-MW-37H	Turbidity	3/17/2022 10:36	2.71	NTU
MR-AP-MW-37H	Conductivity	3/17/2022 10:41	498.3	uS/cm
MR-AP-MW-37H	DO	3/17/2022 10:41	0.5	mg/L
MR-AP-MW-37H	Depth to Water Detail	3/17/2022 10:41	109.88	ft
MR-AP-MW-37H	Oxidation Reduction Potention	3/17/2022 10:41	-46.55	mv
MR-AP-MW-37H	pH	3/17/2022 10:41	7.06	SU
MR-AP-MW-37H	Temperature	3/17/2022 10:41	17.6	C
MR-AP-MW-37H	Turbidity	3/17/2022 10:41	2.49	NTU
MR-AP-MW-37H	Conductivity	3/17/2022 10:46	498.16	uS/cm
MR-AP-MW-37H	DO	3/17/2022 10:46	0.5	mg/L
MR-AP-MW-37H	Depth to Water Detail	3/17/2022 10:46	109.96	ft
MR-AP-MW-37H	Oxidation Reduction Potention	3/17/2022 10:46	-53.75	mv
MR-AP-MW-37H	pH	3/17/2022 10:46	7.12	SU
MR-AP-MW-37H	Temperature	3/17/2022 10:46	17.67	C

**Groundwater Field Parameters  
Plant Miller Ash Pond**

<b>WELL ID</b>	<b>DESCRIPTION</b>	<b>TIME OF READING</b>	<b>VALUE</b>	<b>UNIT</b>
MR-AP-MW-37H	Turbidity	3/17/2022 10:46	1.89	NTU

**Groundwater Field Parameters  
Plant Miller Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-6	Conductivity	3/16/2022 8:42	1206.99	uS/cm
MR-AP-MW-6	DO	3/16/2022 8:42	0.91	mg/L
MR-AP-MW-6	Depth to Water Detail	3/16/2022 8:42	4.78	ft
MR-AP-MW-6	Oxidation Reduction Potential	3/16/2022 8:42	-8.22	mv
MR-AP-MW-6	pH	3/16/2022 8:42	5.97	SU
MR-AP-MW-6	Temperature	3/16/2022 8:42	16.64	C
MR-AP-MW-6	Turbidity	3/16/2022 8:42	22.5	NTU
MR-AP-MW-6	Conductivity	3/16/2022 8:47	1206.72	uS/cm
MR-AP-MW-6	DO	3/16/2022 8:47	0.52	mg/L
MR-AP-MW-6	Depth to Water Detail	3/16/2022 8:47	5.18	ft
MR-AP-MW-6	Oxidation Reduction Potential	3/16/2022 8:47	-9.24	mv
MR-AP-MW-6	pH	3/16/2022 8:47	5.99	SU
MR-AP-MW-6	Temperature	3/16/2022 8:47	16.78	C
MR-AP-MW-6	Turbidity	3/16/2022 8:47	13.86	NTU
MR-AP-MW-6	Conductivity	3/16/2022 8:52	1207.91	uS/cm
MR-AP-MW-6	DO	3/16/2022 8:52	0.45	mg/L
MR-AP-MW-6	Depth to Water Detail	3/16/2022 8:52	5.31	ft
MR-AP-MW-6	Oxidation Reduction Potential	3/16/2022 8:52	-10.39	mv
MR-AP-MW-6	pH	3/16/2022 8:52	6.01	SU
MR-AP-MW-6	Temperature	3/16/2022 8:52	16.91	C
MR-AP-MW-6	Turbidity	3/16/2022 8:52	8.61	NTU
MR-AP-MW-6	Conductivity	3/16/2022 8:57	1209.02	uS/cm
MR-AP-MW-6	DO	3/16/2022 8:57	0.43	mg/L
MR-AP-MW-6	Depth to Water Detail	3/16/2022 8:57	5.36	ft
MR-AP-MW-6	Oxidation Reduction Potential	3/16/2022 8:57	-12.31	mv
MR-AP-MW-6	pH	3/16/2022 8:57	6.04	SU
MR-AP-MW-6	Temperature	3/16/2022 8:57	16.93	C
MR-AP-MW-6	Turbidity	3/16/2022 8:57	5.21	NTU
MR-AP-MW-6	Conductivity	3/16/2022 9:02	1208.97	uS/cm
MR-AP-MW-6	DO	3/16/2022 9:02	0.41	mg/L
MR-AP-MW-6	Depth to Water Detail	3/16/2022 9:02	5.41	ft
MR-AP-MW-6	Oxidation Reduction Potential	3/16/2022 9:02	-13.98	mv
MR-AP-MW-6	pH	3/16/2022 9:02	6.07	SU
MR-AP-MW-6	Temperature	3/16/2022 9:02	17.04	C
MR-AP-MW-6	Turbidity	3/16/2022 9:02	3.15	NTU



**Groundwater Field Parameters  
Plant Miller Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-30H	Conductivity	3/16/2022 10:32	1903.45	uS/cm
MR-AP-MW-30H	DO	3/16/2022 10:32	0.52	mg/L
MR-AP-MW-30H	Depth to Water Detail	3/16/2022 10:32	244.5	ft
MR-AP-MW-30H	Oxidation Reduction Potention	3/16/2022 10:32	-89.66	mv
MR-AP-MW-30H	pH	3/16/2022 10:32	6.66	SU
MR-AP-MW-30H	Temperature	3/16/2022 10:32	17.1	C
MR-AP-MW-30H	Turbidity	3/16/2022 10:32	2.96	NTU
MR-AP-MW-30H	Conductivity	3/16/2022 10:37	1875.57	uS/cm
MR-AP-MW-30H	DO	3/16/2022 10:37	0.4	mg/L
MR-AP-MW-30H	Depth to Water Detail	3/16/2022 10:37	247	ft
MR-AP-MW-30H	Oxidation Reduction Potention	3/16/2022 10:37	-92.35	mv
MR-AP-MW-30H	pH	3/16/2022 10:37	6.66	SU
MR-AP-MW-30H	Temperature	3/16/2022 10:37	17.05	C
MR-AP-MW-30H	Turbidity	3/16/2022 10:37	1.95	NTU
MR-AP-MW-30H	Conductivity	3/16/2022 10:42	1878.6	uS/cm
MR-AP-MW-30H	DO	3/16/2022 10:42	0.37	mg/L
MR-AP-MW-30H	Depth to Water Detail	3/16/2022 10:42	249.05	ft
MR-AP-MW-30H	Oxidation Reduction Potention	3/16/2022 10:42	-95.64	mv
MR-AP-MW-30H	pH	3/16/2022 10:42	6.67	SU
MR-AP-MW-30H	Temperature	3/16/2022 10:42	17.05	C
MR-AP-MW-30H	Turbidity	3/16/2022 10:42	1.79	NTU
MR-AP-MW-30H	Conductivity	3/16/2022 10:47	1872.49	uS/cm
MR-AP-MW-30H	DO	3/16/2022 10:47	0.32	mg/L
MR-AP-MW-30H	Depth to Water Detail	3/16/2022 10:47	252.05	ft
MR-AP-MW-30H	Oxidation Reduction Potention	3/16/2022 10:47	-99.66	mv
MR-AP-MW-30H	pH	3/16/2022 10:47	6.68	SU
MR-AP-MW-30H	Temperature	3/16/2022 10:47	17.11	C
MR-AP-MW-30H	Turbidity	3/16/2022 10:47	1.9	NTU
MR-AP-MW-30H	Conductivity	3/16/2022 10:52	1869.19	uS/cm
MR-AP-MW-30H	DO	3/16/2022 10:52	0.52	mg/L
MR-AP-MW-30H	Depth to Water Detail	3/16/2022 10:52	252.54	ft
MR-AP-MW-30H	Oxidation Reduction Potention	3/16/2022 10:52	-101.68	mv
MR-AP-MW-30H	pH	3/16/2022 10:52	6.7	SU
MR-AP-MW-30H	Temperature	3/16/2022 10:52	16.85	C
MR-AP-MW-30H	Turbidity	3/16/2022 10:52	2.04	NTU
MR-AP-MW-30H	Conductivity	3/16/2022 10:57	1868.31	uS/cm
MR-AP-MW-30H	DO	3/16/2022 10:57	0.68	mg/L
MR-AP-MW-30H	Depth to Water Detail	3/16/2022 10:57	252.72	ft
MR-AP-MW-30H	Oxidation Reduction Potention	3/16/2022 10:57	-102.42	mv
MR-AP-MW-30H	pH	3/16/2022 10:57	6.71	SU
MR-AP-MW-30H	Temperature	3/16/2022 10:57	16.81	C
MR-AP-MW-30H	Turbidity	3/16/2022 10:57	2.78	NTU
MR-AP-MW-30H	Conductivity	3/16/2022 11:02	1866.58	uS/cm
MR-AP-MW-30H	DO	3/16/2022 11:02	0.71	mg/L
MR-AP-MW-30H	Depth to Water Detail	3/16/2022 11:02	252.83	ft

**Groundwater Field Parameters  
Plant Miller Ash Pond**

<b>WELL ID</b>	<b>DESCRIPTION</b>	<b>TIME OF READING</b>	<b>VALUE</b>	<b>UNIT</b>
MR-AP-MW-30H	Oxidation Reduction Potention	3/16/2022 11:02	-103.67	mv
MR-AP-MW-30H	pH	3/16/2022 11:02	6.72	SU
MR-AP-MW-30H	Temperature	3/16/2022 11:02	16.74	C
MR-AP-MW-30H	Turbidity	3/16/2022 11:02	1.81	NTU
MR-AP-MW-30H	Conductivity	3/16/2022 11:07	1784.2	uS/cm
MR-AP-MW-30H	DO	3/16/2022 11:07	0.71	mg/L
MR-AP-MW-30H	Depth to Water Detail	3/16/2022 11:07	252.91	ft
MR-AP-MW-30H	Oxidation Reduction Potention	3/16/2022 11:07	-105.51	mv
MR-AP-MW-30H	pH	3/16/2022 11:07	6.72	SU
MR-AP-MW-30H	Temperature	3/16/2022 11:07	16.7	C
MR-AP-MW-30H	Turbidity	3/16/2022 11:07	1.97	NTU

**Groundwater Field Parameters  
Plant Miller Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-11	Conductivity	3/16/2022 12:08	1404.68	uS/cm
MR-AP-MW-11	DO	3/16/2022 12:08	0.58	mg/L
MR-AP-MW-11	Depth to Water Detail	3/16/2022 12:08	234.11	ft
MR-AP-MW-11	Oxidation Reduction Potention	3/16/2022 12:08	-63.62	mv
MR-AP-MW-11	pH	3/16/2022 12:08	6.49	SU
MR-AP-MW-11	Temperature	3/16/2022 12:08	16.92	C
MR-AP-MW-11	Turbidity	3/16/2022 12:08	7.42	NTU
MR-AP-MW-11	Conductivity	3/16/2022 12:13	1544.92	uS/cm
MR-AP-MW-11	DO	3/16/2022 12:13	0.41	mg/L
MR-AP-MW-11	Depth to Water Detail	3/16/2022 12:13	235.49	ft
MR-AP-MW-11	Oxidation Reduction Potention	3/16/2022 12:13	-65.26	mv
MR-AP-MW-11	pH	3/16/2022 12:13	6.49	SU
MR-AP-MW-11	Temperature	3/16/2022 12:13	16.86	C
MR-AP-MW-11	Turbidity	3/16/2022 12:13	11.49	NTU
MR-AP-MW-11	Conductivity	3/16/2022 12:18	1478.21	uS/cm
MR-AP-MW-11	DO	3/16/2022 12:18	0.38	mg/L
MR-AP-MW-11	Depth to Water Detail	3/16/2022 12:18	237.05	ft
MR-AP-MW-11	Oxidation Reduction Potention	3/16/2022 12:18	-69.02	mv
MR-AP-MW-11	pH	3/16/2022 12:18	6.52	SU
MR-AP-MW-11	Temperature	3/16/2022 12:18	16.9	C
MR-AP-MW-11	Turbidity	3/16/2022 12:18	6.39	NTU
MR-AP-MW-11	Conductivity	3/16/2022 12:23	1222.37	uS/cm
MR-AP-MW-11	DO	3/16/2022 12:23	0.85	mg/L
MR-AP-MW-11	Depth to Water Detail	3/16/2022 12:23	238.14	ft
MR-AP-MW-11	Oxidation Reduction Potention	3/16/2022 12:23	-200.38	mv
MR-AP-MW-11	pH	3/16/2022 12:23	9.06	SU
MR-AP-MW-11	Temperature	3/16/2022 12:23	16.88	C
MR-AP-MW-11	Turbidity	3/16/2022 12:23	9.91	NTU
MR-AP-MW-11	Conductivity	3/16/2022 12:28	1217.52	uS/cm
MR-AP-MW-11	DO	3/16/2022 12:28	0.88	mg/L
MR-AP-MW-11	Depth to Water Detail	3/16/2022 12:28	239.35	ft
MR-AP-MW-11	Oxidation Reduction Potention	3/16/2022 12:28	-165.96	mv
MR-AP-MW-11	pH	3/16/2022 12:28	9.13	SU
MR-AP-MW-11	Temperature	3/16/2022 12:28	16.89	C
MR-AP-MW-11	Turbidity	3/16/2022 12:28	9.12	NTU
MR-AP-MW-11	Conductivity	3/16/2022 12:33	1196.1	uS/cm
MR-AP-MW-11	DO	3/16/2022 12:33	0.8	mg/L
MR-AP-MW-11	Depth to Water Detail	3/16/2022 12:33	240.55	ft
MR-AP-MW-11	Oxidation Reduction Potention	3/16/2022 12:33	-154.96	mv
MR-AP-MW-11	pH	3/16/2022 12:33	8.96	SU
MR-AP-MW-11	Temperature	3/16/2022 12:33	16.93	C
MR-AP-MW-11	Turbidity	3/16/2022 12:33	6.59	NTU
MR-AP-MW-11	Conductivity	3/16/2022 12:38	1197.69	uS/cm
MR-AP-MW-11	DO	3/16/2022 12:38	0.72	mg/L
MR-AP-MW-11	Depth to Water Detail	3/16/2022 12:38	241.68	ft

**Groundwater Field Parameters  
Plant Miller Ash Pond**

<b>WELL ID</b>	<b>DESCRIPTION</b>	<b>TIME OF READING</b>	<b>VALUE</b>	<b>UNIT</b>
MR-AP-MW-11	Oxidation Reduction Potention	3/16/2022 12:38	-169.99	mv
MR-AP-MW-11	pH	3/16/2022 12:38	8.64	SU
MR-AP-MW-11	Temperature	3/16/2022 12:38	16.94	C
MR-AP-MW-11	Turbidity	3/16/2022 12:38	7.83	NTU
MR-AP-MW-11	Conductivity	3/16/2022 12:43	1169.41	uS/cm
MR-AP-MW-11	DO	3/16/2022 12:43	0.66	mg/L
MR-AP-MW-11	Depth to Water Detail	3/16/2022 12:43	242.96	ft
MR-AP-MW-11	Oxidation Reduction Potention	3/16/2022 12:43	-187.89	mv
MR-AP-MW-11	pH	3/16/2022 12:43	8.36	SU
MR-AP-MW-11	Temperature	3/16/2022 12:43	16.96	C
MR-AP-MW-11	Turbidity	3/16/2022 12:43	6.16	NTU
MR-AP-MW-11	Conductivity	3/16/2022 12:48	1182.68	uS/cm
MR-AP-MW-11	DO	3/16/2022 12:48	0.77	mg/L
MR-AP-MW-11	Depth to Water Detail	3/16/2022 12:48	243.1	ft
MR-AP-MW-11	Oxidation Reduction Potention	3/16/2022 12:48	-168.47	mv
MR-AP-MW-11	pH	3/16/2022 12:48	8.08	SU
MR-AP-MW-11	Temperature	3/16/2022 12:48	16.79	C
MR-AP-MW-11	Turbidity	3/16/2022 12:48	7.87	NTU
MR-AP-MW-11	Conductivity	3/16/2022 12:53	1189.34	uS/cm
MR-AP-MW-11	DO	3/16/2022 12:53	0.87	mg/L
MR-AP-MW-11	Depth to Water Detail	3/16/2022 12:53	242.83	ft
MR-AP-MW-11	Oxidation Reduction Potention	3/16/2022 12:53	-154.07	mv
MR-AP-MW-11	pH	3/16/2022 12:53	7.91	SU
MR-AP-MW-11	Temperature	3/16/2022 12:53	16.63	C
MR-AP-MW-11	Turbidity	3/16/2022 12:53	6.88	NTU
MR-AP-MW-11	Conductivity	3/16/2022 12:58	1203.88	uS/cm
MR-AP-MW-11	DO	3/16/2022 12:58	0.89	mg/L
MR-AP-MW-11	Depth to Water Detail	3/16/2022 12:58	242.65	ft
MR-AP-MW-11	Oxidation Reduction Potention	3/16/2022 12:58	-130.34	mv
MR-AP-MW-11	pH	3/16/2022 12:58	7.67	SU
MR-AP-MW-11	Temperature	3/16/2022 12:58	16.67	C
MR-AP-MW-11	Turbidity	3/16/2022 12:58	5.63	NTU
MR-AP-MW-11	Conductivity	3/16/2022 13:03	1239.88	uS/cm
MR-AP-MW-11	DO	3/16/2022 13:03	0.98	mg/L
MR-AP-MW-11	Depth to Water Detail	3/16/2022 13:03	242.22	ft
MR-AP-MW-11	Oxidation Reduction Potention	3/16/2022 13:03	-94.17	mv
MR-AP-MW-11	pH	3/16/2022 13:03	7.26	SU
MR-AP-MW-11	Temperature	3/16/2022 13:03	16.67	C
MR-AP-MW-11	Turbidity	3/16/2022 13:03	4.54	NTU
MR-AP-MW-11	Conductivity	3/16/2022 13:08	1250.19	uS/cm
MR-AP-MW-11	DO	3/16/2022 13:08	1.33	mg/L
MR-AP-MW-11	Depth to Water Detail	3/16/2022 13:08	241.55	ft
MR-AP-MW-11	Oxidation Reduction Potention	3/16/2022 13:08	-79.83	mv
MR-AP-MW-11	pH	3/16/2022 13:08	7.13	SU
MR-AP-MW-11	Temperature	3/16/2022 13:08	16.94	C

**Groundwater Field Parameters  
Plant Miller Ash Pond**

<b>WELL ID</b>	<b>DESCRIPTION</b>	<b>TIME OF READING</b>	<b>VALUE</b>	<b>UNIT</b>
MR-AP-MW-11	Turbidity	3/16/2022 13:08	4.07	NTU
MR-AP-MW-11	Conductivity	3/16/2022 13:13	1260.93	uS/cm
MR-AP-MW-11	DO	3/16/2022 13:13	1.3	mg/L
MR-AP-MW-11	Depth to Water Detail	3/16/2022 13:13	241.21	ft
MR-AP-MW-11	Oxidation Reduction Potential	3/16/2022 13:13	-72.33	mv
MR-AP-MW-11	pH	3/16/2022 13:13	7.06	SU
MR-AP-MW-11	Temperature	3/16/2022 13:13	16.79	C
MR-AP-MW-11	Turbidity	3/16/2022 13:13	4.04	NTU
MR-AP-MW-11	Conductivity	3/16/2022 13:18	1270.94	uS/cm
MR-AP-MW-11	DO	3/16/2022 13:18	1.2	mg/L
MR-AP-MW-11	Depth to Water Detail	3/16/2022 13:18	240.89	ft
MR-AP-MW-11	Oxidation Reduction Potential	3/16/2022 13:18	-65.52	mv
MR-AP-MW-11	pH	3/16/2022 13:18	7	SU
MR-AP-MW-11	Temperature	3/16/2022 13:18	17.08	C
MR-AP-MW-11	Turbidity	3/16/2022 13:18	4.11	NTU
MR-AP-MW-11	Conductivity	3/16/2022 13:23	1284.22	uS/cm
MR-AP-MW-11	DO	3/16/2022 13:23	1.15	mg/L
MR-AP-MW-11	Depth to Water Detail	3/16/2022 13:23	240.6	ft
MR-AP-MW-11	Oxidation Reduction Potential	3/16/2022 13:23	-60.29	mv
MR-AP-MW-11	pH	3/16/2022 13:23	6.94	SU
MR-AP-MW-11	Temperature	3/16/2022 13:23	17.6	C
MR-AP-MW-11	Turbidity	3/16/2022 13:23	3.34	NTU

**Groundwater Field Parameters  
Plant Miller Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-36HR	Conductivity	3/16/2022 15:34	3417.83	uS/cm
MR-AP-MW-36HR	DO	3/16/2022 15:34	0.41	mg/L
MR-AP-MW-36HR	Depth to Water Detail	3/16/2022 15:34	203.84	ft
MR-AP-MW-36HR	Oxidation Reduction Potention	3/16/2022 15:34	-148.39	mv
MR-AP-MW-36HR	pH	3/16/2022 15:34	7.45	SU
MR-AP-MW-36HR	Temperature	3/16/2022 15:34	17.74	C
MR-AP-MW-36HR	Turbidity	3/16/2022 15:34	5.17	NTU
MR-AP-MW-36HR	Conductivity	3/16/2022 15:39	3416.76	uS/cm
MR-AP-MW-36HR	DO	3/16/2022 15:39	0.33	mg/L
MR-AP-MW-36HR	Depth to Water Detail	3/16/2022 15:39	207.89	ft
MR-AP-MW-36HR	Oxidation Reduction Potention	3/16/2022 15:39	-135.97	mv
MR-AP-MW-36HR	pH	3/16/2022 15:39	7.43	SU
MR-AP-MW-36HR	Temperature	3/16/2022 15:39	17.63	C
MR-AP-MW-36HR	Turbidity	3/16/2022 15:39	2.75	NTU
MR-AP-MW-36HR	Conductivity	3/16/2022 15:44	3398.32	uS/cm
MR-AP-MW-36HR	DO	3/16/2022 15:44	0.27	mg/L
MR-AP-MW-36HR	Depth to Water Detail	3/16/2022 15:44	213.27	ft
MR-AP-MW-36HR	Oxidation Reduction Potention	3/16/2022 15:44	-131.17	mv
MR-AP-MW-36HR	pH	3/16/2022 15:44	7.44	SU
MR-AP-MW-36HR	Temperature	3/16/2022 15:44	17.72	C
MR-AP-MW-36HR	Turbidity	3/16/2022 15:44	1.55	NTU
MR-AP-MW-36HR	Conductivity	3/16/2022 15:49	3417.4	uS/cm
MR-AP-MW-36HR	DO	3/16/2022 15:49	0.26	mg/L
MR-AP-MW-36HR	Depth to Water Detail	3/16/2022 15:49	216.65	ft
MR-AP-MW-36HR	Oxidation Reduction Potention	3/16/2022 15:49	-133.36	mv
MR-AP-MW-36HR	pH	3/16/2022 15:49	7.44	SU
MR-AP-MW-36HR	Temperature	3/16/2022 15:49	17.6	C
MR-AP-MW-36HR	Turbidity	3/16/2022 15:49	2.1	NTU
MR-AP-MW-36HR	Conductivity	3/16/2022 15:54	3451.6	uS/cm
MR-AP-MW-36HR	DO	3/16/2022 15:54	0.23	mg/L
MR-AP-MW-36HR	Depth to Water Detail	3/16/2022 15:54	220.97	ft
MR-AP-MW-36HR	Oxidation Reduction Potention	3/16/2022 15:54	-133.06	mv
MR-AP-MW-36HR	pH	3/16/2022 15:54	7.45	SU
MR-AP-MW-36HR	Temperature	3/16/2022 15:54	17.64	C
MR-AP-MW-36HR	Turbidity	3/16/2022 15:54	1.38	NTU
MR-AP-MW-36HR	Conductivity	3/16/2022 15:59	3466.4	uS/cm
MR-AP-MW-36HR	DO	3/16/2022 15:59	0.52	mg/L
MR-AP-MW-36HR	Depth to Water Detail	3/16/2022 15:59	222.52	ft
MR-AP-MW-36HR	Oxidation Reduction Potention	3/16/2022 15:59	-126.88	mv
MR-AP-MW-36HR	pH	3/16/2022 15:59	7.46	SU
MR-AP-MW-36HR	Temperature	3/16/2022 15:59	17.6	C
MR-AP-MW-36HR	Turbidity	3/16/2022 15:59	2.85	NTU
MR-AP-MW-36HR	Conductivity	3/16/2022 16:04	3476.76	uS/cm
MR-AP-MW-36HR	DO	3/16/2022 16:04	0.71	mg/L
MR-AP-MW-36HR	Depth to Water Detail	3/16/2022 16:04	222.68	ft

**Groundwater Field Parameters  
Plant Miller Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-36HR	Oxidation Reduction Potention	3/16/2022 16:04	-118.75	mv
MR-AP-MW-36HR	pH	3/16/2022 16:04	7.46	SU
MR-AP-MW-36HR	Temperature	3/16/2022 16:04	17.63	C
MR-AP-MW-36HR	Turbidity	3/16/2022 16:04	2.86	NTU
MR-AP-MW-36HR	Conductivity	3/16/2022 16:09	3463.81	uS/cm
MR-AP-MW-36HR	DO	3/16/2022 16:09	0.79	mg/L
MR-AP-MW-36HR	Depth to Water Detail	3/16/2022 16:09	222.85	ft
MR-AP-MW-36HR	Oxidation Reduction Potention	3/16/2022 16:09	-114.32	mv
MR-AP-MW-36HR	pH	3/16/2022 16:09	7.47	SU
MR-AP-MW-36HR	Temperature	3/16/2022 16:09	17.6	C
MR-AP-MW-36HR	Turbidity	3/16/2022 16:09	1.55	NTU
MR-AP-MW-36HR	Conductivity	3/16/2022 16:14	3437.58	uS/cm
MR-AP-MW-36HR	DO	3/16/2022 16:14	0.81	mg/L
MR-AP-MW-36HR	Depth to Water Detail	3/16/2022 16:14	223.08	ft
MR-AP-MW-36HR	Oxidation Reduction Potention	3/16/2022 16:14	-113.83	mv
MR-AP-MW-36HR	pH	3/16/2022 16:14	7.48	SU
MR-AP-MW-36HR	Temperature	3/16/2022 16:14	17.89	C
MR-AP-MW-36HR	Turbidity	3/16/2022 16:14	2.84	NTU
MR-AP-MW-36HR	Conductivity	3/16/2022 16:19	3412.29	uS/cm
MR-AP-MW-36HR	DO	3/16/2022 16:19	0.82	mg/L
MR-AP-MW-36HR	Depth to Water Detail	3/16/2022 16:19	223.45	ft
MR-AP-MW-36HR	Oxidation Reduction Potention	3/16/2022 16:19	-114.5	mv
MR-AP-MW-36HR	pH	3/16/2022 16:19	7.49	SU
MR-AP-MW-36HR	Temperature	3/16/2022 16:19	17.99	C
MR-AP-MW-36HR	Turbidity	3/16/2022 16:19	3	NTU
MR-AP-MW-36HR	Conductivity	3/16/2022 16:24	3380.78	uS/cm
MR-AP-MW-36HR	DO	3/16/2022 16:24	0.81	mg/L
MR-AP-MW-36HR	Depth to Water Detail	3/16/2022 16:24	223.65	ft
MR-AP-MW-36HR	Oxidation Reduction Potention	3/16/2022 16:24	-115	mv
MR-AP-MW-36HR	pH	3/16/2022 16:24	7.5	SU
MR-AP-MW-36HR	Temperature	3/16/2022 16:24	18.09	C
MR-AP-MW-36HR	Turbidity	3/16/2022 16:24	2.44	NTU
MR-AP-MW-36HR	Conductivity	3/16/2022 16:29	3373.88	uS/cm
MR-AP-MW-36HR	DO	3/16/2022 16:29	0.8	mg/L
MR-AP-MW-36HR	Depth to Water Detail	3/16/2022 16:29	223.8	ft
MR-AP-MW-36HR	Oxidation Reduction Potention	3/16/2022 16:29	-115.72	mv
MR-AP-MW-36HR	pH	3/16/2022 16:29	7.51	SU
MR-AP-MW-36HR	Temperature	3/16/2022 16:29	17.93	C
MR-AP-MW-36HR	Turbidity	3/16/2022 16:29	1.8	NTU
MR-AP-MW-36HR	Conductivity	3/16/2022 16:34	3356.73	uS/cm
MR-AP-MW-36HR	DO	3/16/2022 16:34	0.81	mg/L
MR-AP-MW-36HR	Depth to Water Detail	3/16/2022 16:34	224.07	ft
MR-AP-MW-36HR	Oxidation Reduction Potention	3/16/2022 16:34	-115.71	mv
MR-AP-MW-36HR	pH	3/16/2022 16:34	7.52	SU
MR-AP-MW-36HR	Temperature	3/16/2022 16:34	17.8	C

**Groundwater Field Parameters  
Plant Miller Ash Pond**

<b>WELL ID</b>	<b>DESCRIPTION</b>	<b>TIME OF READING</b>	<b>VALUE</b>	<b>UNIT</b>
MR-AP-MW-36HR	Turbidity	3/16/2022 16:34	1.86	NTU
MR-AP-MW-36HR	Conductivity	3/16/2022 16:39	3348.64	uS/cm
MR-AP-MW-36HR	DO	3/16/2022 16:39	0.88	mg/L
MR-AP-MW-36HR	Depth to Water Detail	3/16/2022 16:39	224.38	ft
MR-AP-MW-36HR	Oxidation Reduction Potention	3/16/2022 16:39	-115.46	mv
MR-AP-MW-36HR	pH	3/16/2022 16:39	7.52	SU
MR-AP-MW-36HR	Temperature	3/16/2022 16:39	17.73	C
MR-AP-MW-36HR	Turbidity	3/16/2022 16:39	2.47	NTU
MR-AP-MW-36HR	Conductivity	3/16/2022 16:44	3319.52	uS/cm
MR-AP-MW-36HR	DO	3/16/2022 16:44	0.93	mg/L
MR-AP-MW-36HR	Depth to Water Detail	3/16/2022 16:44	224.51	ft
MR-AP-MW-36HR	Oxidation Reduction Potention	3/16/2022 16:44	-114.09	mv
MR-AP-MW-36HR	pH	3/16/2022 16:44	7.52	SU
MR-AP-MW-36HR	Temperature	3/16/2022 16:44	17.36	C
MR-AP-MW-36HR	Turbidity	3/16/2022 16:44	2.38	NTU
MR-AP-MW-36HR	Conductivity	3/16/2022 16:49	3310.44	uS/cm
MR-AP-MW-36HR	DO	3/16/2022 16:49	0.92	mg/L
MR-AP-MW-36HR	Depth to Water Detail	3/16/2022 16:49	224.68	ft
MR-AP-MW-36HR	Oxidation Reduction Potention	3/16/2022 16:49	-113.92	mv
MR-AP-MW-36HR	pH	3/16/2022 16:49	7.52	SU
MR-AP-MW-36HR	Temperature	3/16/2022 16:49	17.16	C
MR-AP-MW-36HR	Turbidity	3/16/2022 16:49	1.69	NTU
MR-AP-MW-36HR	Conductivity	3/16/2022 16:54	3306.39	uS/cm
MR-AP-MW-36HR	DO	3/16/2022 16:54	0.93	mg/L
MR-AP-MW-36HR	Depth to Water Detail	3/16/2022 16:54	224.79	ft
MR-AP-MW-36HR	Oxidation Reduction Potention	3/16/2022 16:54	-113.62	mv
MR-AP-MW-36HR	pH	3/16/2022 16:54	7.51	SU
MR-AP-MW-36HR	Temperature	3/16/2022 16:54	16.97	C
MR-AP-MW-36HR	Turbidity	3/16/2022 16:54	1.63	NTU



**Groundwater Field Parameters  
Plant Miller Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-31H	Conductivity	3/16/2022 18:05	1204.56	uS/cm
MR-AP-MW-31H	DO	3/16/2022 18:05	0.44	mg/L
MR-AP-MW-31H	Depth to Water Detail	3/16/2022 18:05	249.85	ft
MR-AP-MW-31H	Oxidation Reduction Potential	3/16/2022 18:05	-85.14	mv
MR-AP-MW-31H	pH	3/16/2022 18:05	6.9	SU
MR-AP-MW-31H	Temperature	3/16/2022 18:05	17.23	C
MR-AP-MW-31H	Turbidity	3/16/2022 18:05	3.09	NTU
MR-AP-MW-31H	Conductivity	3/16/2022 18:10	1206.28	uS/cm
MR-AP-MW-31H	DO	3/16/2022 18:10	0.36	mg/L
MR-AP-MW-31H	Depth to Water Detail	3/16/2022 18:10	252.35	ft
MR-AP-MW-31H	Oxidation Reduction Potential	3/16/2022 18:10	-72.18	mv
MR-AP-MW-31H	pH	3/16/2022 18:10	6.9	SU
MR-AP-MW-31H	Temperature	3/16/2022 18:10	17.25	C
MR-AP-MW-31H	Turbidity	3/16/2022 18:10	1.59	NTU
MR-AP-MW-31H	Conductivity	3/16/2022 18:15	1204.31	uS/cm
MR-AP-MW-31H	DO	3/16/2022 18:15	0.32	mg/L
MR-AP-MW-31H	Depth to Water Detail	3/16/2022 18:15	254.46	ft
MR-AP-MW-31H	Oxidation Reduction Potential	3/16/2022 18:15	-70.15	mv
MR-AP-MW-31H	pH	3/16/2022 18:15	6.91	SU
MR-AP-MW-31H	Temperature	3/16/2022 18:15	17.24	C
MR-AP-MW-31H	Turbidity	3/16/2022 18:15	1.71	NTU
MR-AP-MW-31H	Conductivity	3/16/2022 18:20	1202.4	uS/cm
MR-AP-MW-31H	DO	3/16/2022 18:20	0.73	mg/L
MR-AP-MW-31H	Depth to Water Detail	3/16/2022 18:20	255.46	ft
MR-AP-MW-31H	Oxidation Reduction Potential	3/16/2022 18:20	-64.24	mv
MR-AP-MW-31H	pH	3/16/2022 18:20	6.92	SU
MR-AP-MW-31H	Temperature	3/16/2022 18:20	16.69	C
MR-AP-MW-31H	Turbidity	3/16/2022 18:20	2	NTU
MR-AP-MW-31H	Conductivity	3/16/2022 18:25	1202.06	uS/cm
MR-AP-MW-31H	DO	3/16/2022 18:25	0.86	mg/L
MR-AP-MW-31H	Depth to Water Detail	3/16/2022 18:25	255.69	ft
MR-AP-MW-31H	Oxidation Reduction Potential	3/16/2022 18:25	-56.25	mv
MR-AP-MW-31H	pH	3/16/2022 18:25	6.92	SU
MR-AP-MW-31H	Temperature	3/16/2022 18:25	16.6	C
MR-AP-MW-31H	Turbidity	3/16/2022 18:25	1.73	NTU
MR-AP-MW-31H	Conductivity	3/16/2022 18:30	1200.94	uS/cm
MR-AP-MW-31H	DO	3/16/2022 18:30	0.91	mg/L
MR-AP-MW-31H	Depth to Water Detail	3/16/2022 18:30	255.97	ft
MR-AP-MW-31H	Oxidation Reduction Potential	3/16/2022 18:30	-50.82	mv
MR-AP-MW-31H	pH	3/16/2022 18:30	6.92	SU
MR-AP-MW-31H	Temperature	3/16/2022 18:30	16.5	C
MR-AP-MW-31H	Turbidity	3/16/2022 18:30	1.95	NTU
MR-AP-MW-31H	Conductivity	3/16/2022 18:35	1197.57	uS/cm
MR-AP-MW-31H	DO	3/16/2022 18:35	0.89	mg/L
MR-AP-MW-31H	Depth to Water Detail	3/16/2022 18:35	256.18	ft

**Groundwater Field Parameters  
Plant Miller Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-31H	Oxidation Reduction Potention	3/16/2022 18:35	-49.04	mv
MR-AP-MW-31H	pH	3/16/2022 18:35	6.92	SU
MR-AP-MW-31H	Temperature	3/16/2022 18:35	16.45	C
MR-AP-MW-31H	Turbidity	3/16/2022 18:35	2.62	NTU
MR-AP-MW-31H	Conductivity	3/16/2022 18:40	1193.34	uS/cm
MR-AP-MW-31H	DO	3/16/2022 18:40	0.9	mg/L
MR-AP-MW-31H	Depth to Water Detail	3/16/2022 18:40	256.46	ft
MR-AP-MW-31H	Oxidation Reduction Potention	3/16/2022 18:40	-48.56	mv
MR-AP-MW-31H	pH	3/16/2022 18:40	6.93	SU
MR-AP-MW-31H	Temperature	3/16/2022 18:40	16.22	C
MR-AP-MW-31H	Turbidity	3/16/2022 18:40	2.57	NTU
MR-AP-MW-31H	Conductivity	3/16/2022 18:45	1190.37	uS/cm
MR-AP-MW-31H	DO	3/16/2022 18:45	0.86	mg/L
MR-AP-MW-31H	Depth to Water Detail	3/16/2022 18:45	256.79	ft
MR-AP-MW-31H	Oxidation Reduction Potention	3/16/2022 18:45	-47.77	mv
MR-AP-MW-31H	pH	3/16/2022 18:45	6.92	SU
MR-AP-MW-31H	Temperature	3/16/2022 18:45	15.96	C
MR-AP-MW-31H	Turbidity	3/16/2022 18:45	2.24	NTU
MR-AP-MW-31H	Conductivity	3/16/2022 18:50	1174.69	uS/cm
MR-AP-MW-31H	DO	3/16/2022 18:50	0.43	mg/L
MR-AP-MW-31H	Depth to Water Detail	3/16/2022 18:50	258	ft
MR-AP-MW-31H	Oxidation Reduction Potention	3/16/2022 18:50	-56.47	mv
MR-AP-MW-31H	pH	3/16/2022 18:50	6.92	SU
MR-AP-MW-31H	Temperature	3/16/2022 18:50	16.59	C
MR-AP-MW-31H	Turbidity	3/16/2022 18:50	2.98	NTU
MR-AP-MW-31H	Conductivity	3/16/2022 18:55	1182.53	uS/cm
MR-AP-MW-31H	DO	3/16/2022 18:55	0.36	mg/L
MR-AP-MW-31H	Depth to Water Detail	3/16/2022 18:55	259.23	ft
MR-AP-MW-31H	Oxidation Reduction Potention	3/16/2022 18:55	-63.68	mv
MR-AP-MW-31H	pH	3/16/2022 18:55	6.93	SU
MR-AP-MW-31H	Temperature	3/16/2022 18:55	16.84	C
MR-AP-MW-31H	Turbidity	3/16/2022 18:55	3.77	NTU
MR-AP-MW-31H	Conductivity	3/16/2022 19:00	1186.02	uS/cm
MR-AP-MW-31H	DO	3/16/2022 19:00	0.34	mg/L
MR-AP-MW-31H	Depth to Water Detail	3/16/2022 19:00	260.5	ft
MR-AP-MW-31H	Oxidation Reduction Potention	3/16/2022 19:00	-69.72	mv
MR-AP-MW-31H	pH	3/16/2022 19:00	6.93	SU
MR-AP-MW-31H	Temperature	3/16/2022 19:00	16.85	C
MR-AP-MW-31H	Turbidity	3/16/2022 19:00	4.39	NTU
MR-AP-MW-31H	Conductivity	3/16/2022 19:05	1180.69	uS/cm
MR-AP-MW-31H	DO	3/16/2022 19:05	0.66	mg/L
MR-AP-MW-31H	Depth to Water Detail	3/16/2022 19:05	260.96	ft
MR-AP-MW-31H	Oxidation Reduction Potention	3/16/2022 19:05	-66	mv
MR-AP-MW-31H	pH	3/16/2022 19:05	6.94	SU
MR-AP-MW-31H	Temperature	3/16/2022 19:05	16.13	C

**Groundwater Field Parameters  
Plant Miller Ash Pond**

<b>WELL ID</b>	<b>DESCRIPTION</b>	<b>TIME OF READING</b>	<b>VALUE</b>	<b>UNIT</b>
MR-AP-MW-31H	Turbidity	3/16/2022 19:05	2.76	NTU
MR-AP-MW-31H	Conductivity	3/16/2022 19:10	1182.72	uS/cm
MR-AP-MW-31H	DO	3/16/2022 19:10	0.77	mg/L
MR-AP-MW-31H	Depth to Water Detail	3/16/2022 19:10	261.02	ft
MR-AP-MW-31H	Oxidation Reduction Potential	3/16/2022 19:10	-59.37	mv
MR-AP-MW-31H	pH	3/16/2022 19:10	6.93	SU
MR-AP-MW-31H	Temperature	3/16/2022 19:10	16.09	C
MR-AP-MW-31H	Turbidity	3/16/2022 19:10	2.84	NTU
MR-AP-MW-31H	Conductivity	3/16/2022 19:15	1180.96	uS/cm
MR-AP-MW-31H	DO	3/16/2022 19:15	0.79	mg/L
MR-AP-MW-31H	Depth to Water Detail	3/16/2022 19:15	261.16	ft
MR-AP-MW-31H	Oxidation Reduction Potential	3/16/2022 19:15	-55.29	mv
MR-AP-MW-31H	pH	3/16/2022 19:15	6.93	SU
MR-AP-MW-31H	Temperature	3/16/2022 19:15	16.07	C
MR-AP-MW-31H	Turbidity	3/16/2022 19:15	2.78	NTU
MR-AP-MW-31H	Conductivity	3/16/2022 19:20	1174.06	uS/cm
MR-AP-MW-31H	DO	3/16/2022 19:20	0.8	mg/L
MR-AP-MW-31H	Depth to Water Detail	3/16/2022 19:20	261.35	ft
MR-AP-MW-31H	Oxidation Reduction Potential	3/16/2022 19:20	-57.05	mv
MR-AP-MW-31H	pH	3/16/2022 19:20	6.93	SU
MR-AP-MW-31H	Temperature	3/16/2022 19:20	16.08	C
MR-AP-MW-31H	Turbidity	3/16/2022 19:20	2.61	NTU
MR-AP-MW-31H	Conductivity	3/16/2022 19:25	1167.96	uS/cm
MR-AP-MW-31H	DO	3/16/2022 19:25	0.81	mg/L
MR-AP-MW-31H	Depth to Water Detail	3/16/2022 19:25	261.45	ft
MR-AP-MW-31H	Oxidation Reduction Potential	3/16/2022 19:25	-60.59	mv
MR-AP-MW-31H	pH	3/16/2022 19:25	6.94	SU
MR-AP-MW-31H	Temperature	3/16/2022 19:25	16.07	C
MR-AP-MW-31H	Turbidity	3/16/2022 19:25	2.58	NTU

**Groundwater Field Parameters  
Plant Miller Ash Pond**

<b>WELL ID</b>	<b>DESCRIPTION</b>	<b>TIME OF READING</b>	<b>VALUE</b>	<b>UNIT</b>
MR-AP-MW-12	Conductivity	3/17/2022 9:10	3250.01	uS/cm
MR-AP-MW-12	DO	3/17/2022 9:10	1.16	mg/L
MR-AP-MW-12	Depth to Water Detail	3/17/2022 9:10	100.15	ft
MR-AP-MW-12	Oxidation Reduction Potential	3/17/2022 9:10	22.4	mv
MR-AP-MW-12	pH	3/17/2022 9:10	6.63	SU
MR-AP-MW-12	Temperature	3/17/2022 9:10	19.36	C
MR-AP-MW-12	Turbidity	3/17/2022 9:10	4.66	NTU
MR-AP-MW-12	Conductivity	3/17/2022 9:15	2875.4	uS/cm
MR-AP-MW-12	DO	3/17/2022 9:15	1.19	mg/L
MR-AP-MW-12	Depth to Water Detail	3/17/2022 9:15	100.25	ft
MR-AP-MW-12	Oxidation Reduction Potential	3/17/2022 9:15	27.34	mv
MR-AP-MW-12	pH	3/17/2022 9:15	6.62	SU
MR-AP-MW-12	Temperature	3/17/2022 9:15	19.1	C
MR-AP-MW-12	Turbidity	3/17/2022 9:15	4.58	NTU
MR-AP-MW-12	Conductivity	3/17/2022 9:20	2988.51	uS/cm
MR-AP-MW-12	DO	3/17/2022 9:20	1.09	mg/L
MR-AP-MW-12	Depth to Water Detail	3/17/2022 9:20	100.5	ft
MR-AP-MW-12	Oxidation Reduction Potential	3/17/2022 9:20	0.11	mv
MR-AP-MW-12	pH	3/17/2022 9:20	6.65	SU
MR-AP-MW-12	Temperature	3/17/2022 9:20	19.16	C
MR-AP-MW-12	Turbidity	3/17/2022 9:20	2.65	NTU
MR-AP-MW-12	Conductivity	3/17/2022 9:25	3034.98	uS/cm
MR-AP-MW-12	DO	3/17/2022 9:25	1.04	mg/L
MR-AP-MW-12	Depth to Water Detail	3/17/2022 9:25	100.64	ft
MR-AP-MW-12	Oxidation Reduction Potential	3/17/2022 9:25	-7.39	mv
MR-AP-MW-12	pH	3/17/2022 9:25	6.66	SU
MR-AP-MW-12	Temperature	3/17/2022 9:25	19.29	C
MR-AP-MW-12	Turbidity	3/17/2022 9:25	2.38	NTU
MR-AP-MW-12	Conductivity	3/17/2022 9:30	3055.05	uS/cm
MR-AP-MW-12	DO	3/17/2022 9:30	1	mg/L
MR-AP-MW-12	Depth to Water Detail	3/17/2022 9:30	100.74	ft
MR-AP-MW-12	Oxidation Reduction Potential	3/17/2022 9:30	-10.72	mv
MR-AP-MW-12	pH	3/17/2022 9:30	6.66	SU
MR-AP-MW-12	Temperature	3/17/2022 9:30	19.33	C
MR-AP-MW-12	Turbidity	3/17/2022 9:30	1.91	NTU
MR-AP-MW-12	Conductivity	3/17/2022 9:35	3124.58	uS/cm
MR-AP-MW-12	DO	3/17/2022 9:35	0.97	mg/L
MR-AP-MW-12	Depth to Water Detail	3/17/2022 9:35	100.8	ft
MR-AP-MW-12	Oxidation Reduction Potential	3/17/2022 9:35	-11.94	mv
MR-AP-MW-12	pH	3/17/2022 9:35	6.65	SU
MR-AP-MW-12	Temperature	3/17/2022 9:35	19.38	C
MR-AP-MW-12	Turbidity	3/17/2022 9:35	1.54	NTU

**Groundwater Field Parameters  
Plant Miller Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-27HR	Conductivity	3/14/2022 11:13	545.1	uS/cm
MR-AP-MW-27HR	DO	3/14/2022 11:13	0.48	mg/L
MR-AP-MW-27HR	Depth to Water Detail	3/14/2022 11:13	101.46	ft
MR-AP-MW-27HR	Oxidation Reduction Potention	3/14/2022 11:13	-90.19	mv
MR-AP-MW-27HR	pH	3/14/2022 11:13	7.14	SU
MR-AP-MW-27HR	Temperature	3/14/2022 11:13	20.71	C
MR-AP-MW-27HR	Turbidity	3/14/2022 11:13	4.73	NTU
MR-AP-MW-27HR	Conductivity	3/14/2022 11:18	535.93	uS/cm
MR-AP-MW-27HR	DO	3/14/2022 11:18	0.35	mg/L
MR-AP-MW-27HR	Depth to Water Detail	3/14/2022 11:18	102.06	ft
MR-AP-MW-27HR	Oxidation Reduction Potention	3/14/2022 11:18	-93.78	mv
MR-AP-MW-27HR	pH	3/14/2022 11:18	7.14	SU
MR-AP-MW-27HR	Temperature	3/14/2022 11:18	20.95	C
MR-AP-MW-27HR	Turbidity	3/14/2022 11:18	3.74	NTU
MR-AP-MW-27HR	Conductivity	3/14/2022 11:23	526.72	uS/cm
MR-AP-MW-27HR	DO	3/14/2022 11:23	0.34	mg/L
MR-AP-MW-27HR	Depth to Water Detail	3/14/2022 11:23	102.81	ft
MR-AP-MW-27HR	Oxidation Reduction Potention	3/14/2022 11:23	-95.3	mv
MR-AP-MW-27HR	pH	3/14/2022 11:23	7.15	SU
MR-AP-MW-27HR	Temperature	3/14/2022 11:23	20.92	C
MR-AP-MW-27HR	Turbidity	3/14/2022 11:23	3.17	NTU
MR-AP-MW-27HR	Conductivity	3/14/2022 11:28	520.09	uS/cm
MR-AP-MW-27HR	DO	3/14/2022 11:28	0.33	mg/L
MR-AP-MW-27HR	Depth to Water Detail	3/14/2022 11:28	102.94	ft
MR-AP-MW-27HR	Oxidation Reduction Potention	3/14/2022 11:28	-92.93	mv
MR-AP-MW-27HR	pH	3/14/2022 11:28	7.16	SU
MR-AP-MW-27HR	Temperature	3/14/2022 11:28	20.93	C
MR-AP-MW-27HR	Turbidity	3/14/2022 11:28	3.07	NTU
MR-AP-MW-27HR	Conductivity	3/14/2022 11:33	517.29	uS/cm
MR-AP-MW-27HR	DO	3/14/2022 11:33	0.33	mg/L
MR-AP-MW-27HR	Depth to Water Detail	3/14/2022 11:33	103.54	ft
MR-AP-MW-27HR	Oxidation Reduction Potention	3/14/2022 11:33	-96.62	mv
MR-AP-MW-27HR	pH	3/14/2022 11:33	7.16	SU
MR-AP-MW-27HR	Temperature	3/14/2022 11:33	21.15	C
MR-AP-MW-27HR	Turbidity	3/14/2022 11:33	3.08	NTU
MR-AP-MW-27HR	Conductivity	3/14/2022 11:38	513.84	uS/cm
MR-AP-MW-27HR	DO	3/14/2022 11:38	0.34	mg/L
MR-AP-MW-27HR	Depth to Water Detail	3/14/2022 11:38	103.86	ft
MR-AP-MW-27HR	Oxidation Reduction Potention	3/14/2022 11:38	-95.64	mv
MR-AP-MW-27HR	pH	3/14/2022 11:38	7.17	SU
MR-AP-MW-27HR	Temperature	3/14/2022 11:38	21.13	C
MR-AP-MW-27HR	Turbidity	3/14/2022 11:38	2.93	NTU
MR-AP-MW-27HR	Conductivity	3/14/2022 11:43	510.63	uS/cm
MR-AP-MW-27HR	DO	3/14/2022 11:43	0.33	mg/L
MR-AP-MW-27HR	Depth to Water Detail	3/14/2022 11:43	104.17	ft

**Groundwater Field Parameters  
Plant Miller Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-27HR	Oxidation Reduction Potential	3/14/2022 11:43	-91.79	mv
MR-AP-MW-27HR	pH	3/14/2022 11:43	7.15	SU
MR-AP-MW-27HR	Temperature	3/14/2022 11:43	21.46	C
MR-AP-MW-27HR	Turbidity	3/14/2022 11:43	2.77	NTU
MR-AP-MW-27HR	Conductivity	3/14/2022 11:48	510.51	uS/cm
MR-AP-MW-27HR	DO	3/14/2022 11:48	0.38	mg/L
MR-AP-MW-27HR	Depth to Water Detail	3/14/2022 11:48	104.31	ft
MR-AP-MW-27HR	Oxidation Reduction Potential	3/14/2022 11:48	-91.04	mv
MR-AP-MW-27HR	pH	3/14/2022 11:48	7.17	SU
MR-AP-MW-27HR	Temperature	3/14/2022 11:48	21.68	C
MR-AP-MW-27HR	Turbidity	3/14/2022 11:48	2.71	NTU
MR-AP-MW-27HR	Conductivity	3/14/2022 11:53	504.41	uS/cm
MR-AP-MW-27HR	DO	3/14/2022 11:53	0.4	mg/L
MR-AP-MW-27HR	Depth to Water Detail	3/14/2022 11:53	104.59	ft
MR-AP-MW-27HR	Oxidation Reduction Potential	3/14/2022 11:53	-90.52	mv
MR-AP-MW-27HR	pH	3/14/2022 11:53	7.17	SU
MR-AP-MW-27HR	Temperature	3/14/2022 11:53	21.64	C
MR-AP-MW-27HR	Turbidity	3/14/2022 11:53	2.23	NTU
MR-AP-MW-27HR	Conductivity	3/14/2022 11:58	498.2	uS/cm
MR-AP-MW-27HR	DO	3/14/2022 11:58	0.41	mg/L
MR-AP-MW-27HR	Depth to Water Detail	3/14/2022 11:58	104.71	ft
MR-AP-MW-27HR	Oxidation Reduction Potential	3/14/2022 11:58	-88.72	mv
MR-AP-MW-27HR	pH	3/14/2022 11:58	7.18	SU
MR-AP-MW-27HR	Temperature	3/14/2022 11:58	22.09	C
MR-AP-MW-27HR	Turbidity	3/14/2022 11:58	1.91	NTU
MR-AP-MW-27HR	Conductivity	3/14/2022 12:03	498.31	uS/cm
MR-AP-MW-27HR	DO	3/14/2022 12:03	0.42	mg/L
MR-AP-MW-27HR	Depth to Water Detail	3/14/2022 12:03	104.87	ft
MR-AP-MW-27HR	Oxidation Reduction Potential	3/14/2022 12:03	-87.74	mv
MR-AP-MW-27HR	pH	3/14/2022 12:03	7.18	SU
MR-AP-MW-27HR	Temperature	3/14/2022 12:03	21.74	C
MR-AP-MW-27HR	Turbidity	3/14/2022 12:03	2.01	NTU
MR-AP-MW-27HR	Conductivity	3/14/2022 12:05	498.65	uS/cm
MR-AP-MW-27HR	DO	3/14/2022 12:05	0.43	mg/L
MR-AP-MW-27HR	Depth to Water Detail	3/14/2022 12:05	104.95	ft
MR-AP-MW-27HR	Oxidation Reduction Potential	3/14/2022 12:05	-86.46	mv
MR-AP-MW-27HR	pH	3/14/2022 12:05	7.17	SU
MR-AP-MW-27HR	Temperature	3/14/2022 12:05	21.47	C
MR-AP-MW-27HR	Turbidity	3/14/2022 12:05	2.14	NTU
MR-AP-MW-27HR	Conductivity	3/14/2022 12:10	495.61	uS/cm
MR-AP-MW-27HR	DO	3/14/2022 12:10	0.43	mg/L
MR-AP-MW-27HR	Depth to Water Detail	3/14/2022 12:10	105.1	ft
MR-AP-MW-27HR	Oxidation Reduction Potential	3/14/2022 12:10	-84.8	mv
MR-AP-MW-27HR	pH	3/14/2022 12:10	7.17	SU
MR-AP-MW-27HR	Temperature	3/14/2022 12:10	21.51	C

**Groundwater Field Parameters  
Plant Miller Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-27HR	Turbidity	3/14/2022 12:10	3.36	NTU
MR-AP-MW-27HR	Conductivity	3/14/2022 12:15	496.36	uS/cm
MR-AP-MW-27HR	DO	3/14/2022 12:15	0.42	mg/L
MR-AP-MW-27HR	Depth to Water Detail	3/14/2022 12:15	105.22	ft
MR-AP-MW-27HR	Oxidation Reduction Potention	3/14/2022 12:15	-84.52	mv
MR-AP-MW-27HR	pH	3/14/2022 12:15	7.17	SU
MR-AP-MW-27HR	Temperature	3/14/2022 12:15	21.54	C
MR-AP-MW-27HR	Turbidity	3/14/2022 12:15	3.35	NTU
MR-AP-MW-28H	Conductivity	3/14/2022 14:22	556.6	uS/cm
MR-AP-MW-28H	DO	3/14/2022 14:22	0.83	mg/L
MR-AP-MW-28H	Depth to Water Detail	3/14/2022 14:22	92.34	ft
MR-AP-MW-28H	Oxidation Reduction Potention	3/14/2022 14:22	-43.69	mv
MR-AP-MW-28H	pH	3/14/2022 14:22	6.83	SU
MR-AP-MW-28H	Temperature	3/14/2022 14:22	23.05	C
MR-AP-MW-28H	Turbidity	3/14/2022 14:22	1.44	NTU
MR-AP-MW-28H	Conductivity	3/14/2022 14:27	558.12	uS/cm
MR-AP-MW-28H	DO	3/14/2022 14:27	0.83	mg/L
MR-AP-MW-28H	Depth to Water Detail	3/14/2022 14:27	92.41	ft
MR-AP-MW-28H	Oxidation Reduction Potention	3/14/2022 14:27	-42.58	mv
MR-AP-MW-28H	pH	3/14/2022 14:27	6.83	SU
MR-AP-MW-28H	Temperature	3/14/2022 14:27	23.14	C
MR-AP-MW-28H	Turbidity	3/14/2022 14:27	1.58	NTU
MR-AP-MW-28H	Conductivity	3/14/2022 14:32	555.22	uS/cm
MR-AP-MW-28H	DO	3/14/2022 14:32	0.84	mg/L
MR-AP-MW-28H	Depth to Water Detail	3/14/2022 14:32	92.52	ft
MR-AP-MW-28H	Oxidation Reduction Potention	3/14/2022 14:32	-43.22	mv
MR-AP-MW-28H	pH	3/14/2022 14:32	6.84	SU
MR-AP-MW-28H	Temperature	3/14/2022 14:32	23.04	C
MR-AP-MW-28H	Turbidity	3/14/2022 14:32	1.31	NTU
MR-AP-MW-28H	Conductivity	3/14/2022 14:37	549.52	uS/cm
MR-AP-MW-28H	DO	3/14/2022 14:37	0.86	mg/L
MR-AP-MW-28H	Depth to Water Detail	3/14/2022 14:37	92.59	ft
MR-AP-MW-28H	Oxidation Reduction Potention	3/14/2022 14:37	-41.56	mv
MR-AP-MW-28H	pH	3/14/2022 14:37	6.82	SU
MR-AP-MW-28H	Temperature	3/14/2022 14:37	23.16	C
MR-AP-MW-28H	Turbidity	3/14/2022 14:37	1.22	NTU

**Groundwater Field Parameters  
Plant Miller Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-23	Conductivity	3/15/2022 8:48	7510.86	uS/cm
MR-AP-MW-23	DO	3/15/2022 8:48	0.08	mg/L
MR-AP-MW-23	Depth to Water Detail	3/15/2022 8:48	20.91	ft
MR-AP-MW-23	Oxidation Reduction Potential	3/15/2022 8:48	-170.35	mv
MR-AP-MW-23	pH	3/15/2022 8:48	7.5	SU
MR-AP-MW-23	Temperature	3/15/2022 8:48	20.71	C
MR-AP-MW-23	Turbidity	3/15/2022 8:48	2.77	NTU
MR-AP-MW-23	Conductivity	3/15/2022 8:53	7491.12	uS/cm
MR-AP-MW-23	DO	3/15/2022 8:53	0.08	mg/L
MR-AP-MW-23	Depth to Water Detail	3/15/2022 8:53	23.32	ft
MR-AP-MW-23	Oxidation Reduction Potential	3/15/2022 8:53	-170.67	mv
MR-AP-MW-23	pH	3/15/2022 8:53	7.53	SU
MR-AP-MW-23	Temperature	3/15/2022 8:53	20.8	C
MR-AP-MW-23	Turbidity	3/15/2022 8:53	3.45	NTU
MR-AP-MW-23	Conductivity	3/15/2022 8:58	7502.01	uS/cm
MR-AP-MW-23	DO	3/15/2022 8:58	0.09	mg/L
MR-AP-MW-23	Depth to Water Detail	3/15/2022 8:58	29.61	ft
MR-AP-MW-23	Oxidation Reduction Potential	3/15/2022 8:58	-163	mv
MR-AP-MW-23	pH	3/15/2022 8:58	7.54	SU
MR-AP-MW-23	Temperature	3/15/2022 8:58	20.83	C
MR-AP-MW-23	Turbidity	3/15/2022 8:58	4.44	NTU
MR-AP-MW-23	Conductivity	3/15/2022 9:03	7519.51	uS/cm
MR-AP-MW-23	DO	3/15/2022 9:03	0.08	mg/L
MR-AP-MW-23	Depth to Water Detail	3/15/2022 9:03	34.33	ft
MR-AP-MW-23	Oxidation Reduction Potential	3/15/2022 9:03	-152.68	mv
MR-AP-MW-23	pH	3/15/2022 9:03	7.55	SU
MR-AP-MW-23	Temperature	3/15/2022 9:03	20.95	C
MR-AP-MW-23	Turbidity	3/15/2022 9:03	5.06	NTU
MR-AP-MW-23	Conductivity	3/15/2022 9:08	7519.06	uS/cm
MR-AP-MW-23	DO	3/15/2022 9:08	0.09	mg/L
MR-AP-MW-23	Depth to Water Detail	3/15/2022 9:08	38.19	ft
MR-AP-MW-23	Oxidation Reduction Potential	3/15/2022 9:08	-149.38	mv
MR-AP-MW-23	pH	3/15/2022 9:08	7.57	SU
MR-AP-MW-23	Temperature	3/15/2022 9:08	20.97	C
MR-AP-MW-23	Turbidity	3/15/2022 9:08	5.35	NTU
MR-AP-MW-23	Conductivity	3/15/2022 9:13	7533.84	uS/cm
MR-AP-MW-23	DO	3/15/2022 9:13	0.09	mg/L
MR-AP-MW-23	Depth to Water Detail	3/15/2022 9:13	42.5	ft
MR-AP-MW-23	Oxidation Reduction Potential	3/15/2022 9:13	-146.17	mv
MR-AP-MW-23	pH	3/15/2022 9:13	7.58	SU
MR-AP-MW-23	Temperature	3/15/2022 9:13	20.98	C
MR-AP-MW-23	Turbidity	3/15/2022 9:13	4.42	NTU
MR-AP-MW-23	Conductivity	3/15/2022 9:18	7505.05	uS/cm
MR-AP-MW-23	DO	3/15/2022 9:18	0.09	mg/L
MR-AP-MW-23	Depth to Water Detail	3/15/2022 9:18	46.41	ft



**Groundwater Field Parameters  
Plant Miller Ash Pond**

<b>WELL ID</b>	<b>DESCRIPTION</b>	<b>TIME OF READING</b>	<b>VALUE</b>	<b>UNIT</b>
MR-AP-MW-23	Oxidation Reduction Potention	3/15/2022 9:18	-146.5	mv
MR-AP-MW-23	pH	3/15/2022 9:18	7.6	SU
MR-AP-MW-23	Temperature	3/15/2022 9:18	20.95	C
MR-AP-MW-23	Turbidity	3/15/2022 9:18	4.73	NTU
MR-AP-MW-23	Conductivity	3/15/2022 9:23	7481.91	uS/cm
MR-AP-MW-23	DO	3/15/2022 9:23	0.08	mg/L
MR-AP-MW-23	Depth to Water Detail	3/15/2022 9:23	50.34	ft
MR-AP-MW-23	Oxidation Reduction Potention	3/15/2022 9:23	-147.86	mv
MR-AP-MW-23	pH	3/15/2022 9:23	7.61	SU
MR-AP-MW-23	Temperature	3/15/2022 9:23	20.95	C
MR-AP-MW-23	Turbidity	3/15/2022 9:23	4.44	NTU
MR-AP-MW-23	Conductivity	3/15/2022 9:28	7471.7	uS/cm
MR-AP-MW-23	DO	3/15/2022 9:28	0.07	mg/L
MR-AP-MW-23	Depth to Water Detail	3/15/2022 9:28	52.45	ft
MR-AP-MW-23	Oxidation Reduction Potention	3/15/2022 9:28	-147.64	mv
MR-AP-MW-23	pH	3/15/2022 9:28	7.61	SU
MR-AP-MW-23	Temperature	3/15/2022 9:28	20.93	C
MR-AP-MW-23	Turbidity	3/15/2022 9:28	4.25	NTU
MR-AP-MW-23	Conductivity	3/15/2022 9:33	7437.12	uS/cm
MR-AP-MW-23	DO	3/15/2022 9:33	0.43	mg/L
MR-AP-MW-23	Depth to Water Detail	3/15/2022 9:33	54.09	ft
MR-AP-MW-23	Oxidation Reduction Potention	3/15/2022 9:33	-141	mv
MR-AP-MW-23	pH	3/15/2022 9:33	7.62	SU
MR-AP-MW-23	Temperature	3/15/2022 9:33	20.31	C
MR-AP-MW-23	Turbidity	3/15/2022 9:33	3.9	NTU
MR-AP-MW-23	Conductivity	3/15/2022 9:38	7520.04	uS/cm
MR-AP-MW-23	DO	3/15/2022 9:38	0.56	mg/L
MR-AP-MW-23	Depth to Water Detail	3/15/2022 9:38	54.18	ft
MR-AP-MW-23	Oxidation Reduction Potention	3/15/2022 9:38	-144.03	mv
MR-AP-MW-23	pH	3/15/2022 9:38	7.61	SU
MR-AP-MW-23	Temperature	3/15/2022 9:38	20.33	C
MR-AP-MW-23	Turbidity	3/15/2022 9:38	4.5	NTU
MR-AP-MW-23	Conductivity	3/15/2022 9:43	7522.25	uS/cm
MR-AP-MW-23	DO	3/15/2022 9:43	0.58	mg/L
MR-AP-MW-23	Depth to Water Detail	3/15/2022 9:43	54.27	ft
MR-AP-MW-23	Oxidation Reduction Potention	3/15/2022 9:43	-141.64	mv
MR-AP-MW-23	pH	3/15/2022 9:43	7.61	SU
MR-AP-MW-23	Temperature	3/15/2022 9:43	20.3	C
MR-AP-MW-23	Turbidity	3/15/2022 9:43	3.7	NTU

**Groundwater Field Parameters  
Plant Miller Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-23A	Conductivity	3/16/2022 9:51	7874.13	uS/cm
MR-AP-MW-23A	DO	3/16/2022 9:51	0.1	mg/L
MR-AP-MW-23A	Depth to Water Detail	3/16/2022 9:51	17.39	ft
MR-AP-MW-23A	Oxidation Reduction Potential	3/16/2022 9:51	-124.19	mv
MR-AP-MW-23A	pH	3/16/2022 9:51	7.33	SU
MR-AP-MW-23A	Temperature	3/16/2022 9:51	20.81	C
MR-AP-MW-23A	Turbidity	3/16/2022 9:51	1.49	NTU
MR-AP-MW-23A	Conductivity	3/16/2022 9:56	7806.95	uS/cm
MR-AP-MW-23A	DO	3/16/2022 9:56	0.08	mg/L
MR-AP-MW-23A	Depth to Water Detail	3/16/2022 9:56	22.79	ft
MR-AP-MW-23A	Oxidation Reduction Potential	3/16/2022 9:56	-129.02	mv
MR-AP-MW-23A	pH	3/16/2022 9:56	7.34	SU
MR-AP-MW-23A	Temperature	3/16/2022 9:56	20.88	C
MR-AP-MW-23A	Turbidity	3/16/2022 9:56	1.57	NTU
MR-AP-MW-23A	Conductivity	3/16/2022 10:01	7780.27	uS/cm
MR-AP-MW-23A	DO	3/16/2022 10:01	0.09	mg/L
MR-AP-MW-23A	Depth to Water Detail	3/16/2022 10:01	25.06	ft
MR-AP-MW-23A	Oxidation Reduction Potential	3/16/2022 10:01	-131.96	mv
MR-AP-MW-23A	pH	3/16/2022 10:01	7.35	SU
MR-AP-MW-23A	Temperature	3/16/2022 10:01	20.95	C
MR-AP-MW-23A	Turbidity	3/16/2022 10:01	1.23	NTU
MR-AP-MW-23A	Conductivity	3/16/2022 10:06	7767.24	uS/cm
MR-AP-MW-23A	DO	3/16/2022 10:06	0.09	mg/L
MR-AP-MW-23A	Depth to Water Detail	3/16/2022 10:06	29.61	ft
MR-AP-MW-23A	Oxidation Reduction Potential	3/16/2022 10:06	-133.82	mv
MR-AP-MW-23A	pH	3/16/2022 10:06	7.37	SU
MR-AP-MW-23A	Temperature	3/16/2022 10:06	20.98	C
MR-AP-MW-23A	Turbidity	3/16/2022 10:06	5.59	NTU
MR-AP-MW-23A	Conductivity	3/16/2022 10:11	7637.15	uS/cm
MR-AP-MW-23A	DO	3/16/2022 10:11	0.62	mg/L
MR-AP-MW-23A	Depth to Water Detail	3/16/2022 10:11	36.27	ft
MR-AP-MW-23A	Oxidation Reduction Potential	3/16/2022 10:11	-126.61	mv
MR-AP-MW-23A	pH	3/16/2022 10:11	7.41	SU
MR-AP-MW-23A	Temperature	3/16/2022 10:11	21.05	C
MR-AP-MW-23A	Turbidity	3/16/2022 10:11	1.31	NTU
MR-AP-MW-23A	Conductivity	3/16/2022 10:16	7683.14	uS/cm
MR-AP-MW-23A	DO	3/16/2022 10:16	1.23	mg/L
MR-AP-MW-23A	Depth to Water Detail	3/16/2022 10:16	37.32	ft
MR-AP-MW-23A	Oxidation Reduction Potential	3/16/2022 10:16	-104.85	mv
MR-AP-MW-23A	pH	3/16/2022 10:16	7.44	SU
MR-AP-MW-23A	Temperature	3/16/2022 10:16	20.84	C
MR-AP-MW-23A	Turbidity	3/16/2022 10:16	1.32	NTU
MR-AP-MW-23A	Conductivity	3/16/2022 10:21	7708.74	uS/cm
MR-AP-MW-23A	DO	3/16/2022 10:21	1.11	mg/L
MR-AP-MW-23A	Depth to Water Detail	3/16/2022 10:21	37.74	ft

**Groundwater Field Parameters  
Plant Miller Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-23A	Oxidation Reduction Potention	3/16/2022 10:21	-103.28	mv
MR-AP-MW-23A	pH	3/16/2022 10:21	7.45	SU
MR-AP-MW-23A	Temperature	3/16/2022 10:21	20.68	C
MR-AP-MW-23A	Turbidity	3/16/2022 10:21	1.3	NTU
MR-AP-MW-23A	Conductivity	3/16/2022 10:26	7704.74	uS/cm
MR-AP-MW-23A	DO	3/16/2022 10:26	0.98	mg/L
MR-AP-MW-23A	Depth to Water Detail	3/16/2022 10:26	38.01	ft
MR-AP-MW-23A	Oxidation Reduction Potention	3/16/2022 10:26	-106.82	mv
MR-AP-MW-23A	pH	3/16/2022 10:26	7.46	SU
MR-AP-MW-23A	Temperature	3/16/2022 10:26	20.7	C
MR-AP-MW-23A	Turbidity	3/16/2022 10:26	1.02	NTU
MR-AP-MW-23A	Conductivity	3/16/2022 10:31	7687.75	uS/cm
MR-AP-MW-23A	DO	3/16/2022 10:31	0.94	mg/L
MR-AP-MW-23A	Depth to Water Detail	3/16/2022 10:31	38.42	ft
MR-AP-MW-23A	Oxidation Reduction Potention	3/16/2022 10:31	-106.55	mv
MR-AP-MW-23A	pH	3/16/2022 10:31	7.46	SU
MR-AP-MW-23A	Temperature	3/16/2022 10:31	20.67	C
MR-AP-MW-23A	Turbidity	3/16/2022 10:31	5.05	NTU
MR-AP-MW-23A	Conductivity	3/16/2022 10:36	7690.98	uS/cm
MR-AP-MW-23A	DO	3/16/2022 10:36	0.92	mg/L
MR-AP-MW-23A	Depth to Water Detail	3/16/2022 10:36	38.7	ft
MR-AP-MW-23A	Oxidation Reduction Potention	3/16/2022 10:36	-105.51	mv
MR-AP-MW-23A	pH	3/16/2022 10:36	7.46	SU
MR-AP-MW-23A	Temperature	3/16/2022 10:36	20.74	C
MR-AP-MW-23A	Turbidity	3/16/2022 10:36	1.39	NTU
MR-AP-MW-23A	Conductivity	3/16/2022 10:41	7703.27	uS/cm
MR-AP-MW-23A	DO	3/16/2022 10:41	0.96	mg/L
MR-AP-MW-23A	Depth to Water Detail	3/16/2022 10:41	38.95	ft
MR-AP-MW-23A	Oxidation Reduction Potention	3/16/2022 10:41	-104.42	mv
MR-AP-MW-23A	pH	3/16/2022 10:41	7.47	SU
MR-AP-MW-23A	Temperature	3/16/2022 10:41	20.66	C
MR-AP-MW-23A	Turbidity	3/16/2022 10:41	1.23	NTU
MR-AP-MW-23A	Conductivity	3/16/2022 10:46	7696.53	uS/cm
MR-AP-MW-23A	DO	3/16/2022 10:46	0.95	mg/L
MR-AP-MW-23A	Depth to Water Detail	3/16/2022 10:46	39.2	ft
MR-AP-MW-23A	Oxidation Reduction Potention	3/16/2022 10:46	-104.16	mv
MR-AP-MW-23A	pH	3/16/2022 10:46	7.48	SU
MR-AP-MW-23A	Temperature	3/16/2022 10:46	20.58	C
MR-AP-MW-23A	Turbidity	3/16/2022 10:46	1.28	NTU
MR-AP-MW-23A	Conductivity	3/16/2022 10:51	7689.73	uS/cm
MR-AP-MW-23A	DO	3/16/2022 10:51	0.93	mg/L
MR-AP-MW-23A	Depth to Water Detail	3/16/2022 10:51	39.33	ft
MR-AP-MW-23A	Oxidation Reduction Potention	3/16/2022 10:51	-103.44	mv
MR-AP-MW-23A	pH	3/16/2022 10:51	7.48	SU
MR-AP-MW-23A	Temperature	3/16/2022 10:51	20.52	C

**Groundwater Field Parameters  
Plant Miller Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-23A	Turbidity	3/16/2022 10:51	1.21	NTU
MR-AP-MW-23A	Conductivity	3/16/2022 10:56	7695.25	uS/cm
MR-AP-MW-23A	DO	3/16/2022 10:56	0.91	mg/L
MR-AP-MW-23A	Depth to Water Detail	3/16/2022 10:56	39.42	ft
MR-AP-MW-23A	Oxidation Reduction Potention	3/16/2022 10:56	-102.4	mv
MR-AP-MW-23A	pH	3/16/2022 10:56	7.48	SU
MR-AP-MW-23A	Temperature	3/16/2022 10:56	20.51	C
MR-AP-MW-23A	Turbidity	3/16/2022 10:56	2.19	NTU
MR-AP-MW-22D	Conductivity	3/17/2022 10:40	7574.18	uS/cm
MR-AP-MW-22D	DO	3/17/2022 10:40	0.18	mg/L
MR-AP-MW-22D	Depth to Water Detail	3/17/2022 10:40	63.81	ft
MR-AP-MW-22D	Oxidation Reduction Potention	3/17/2022 10:40	-263.59	mv
MR-AP-MW-22D	pH	3/17/2022 10:40	7.95	SU
MR-AP-MW-22D	Temperature	3/17/2022 10:40	21.38	C
MR-AP-MW-22D	Turbidity	3/17/2022 10:40	2.05	NTU
MR-AP-MW-22D	Conductivity	3/17/2022 10:45	7573.47	uS/cm
MR-AP-MW-22D	DO	3/17/2022 10:45	0.12	mg/L
MR-AP-MW-22D	Depth to Water Detail	3/17/2022 10:45	69.82	ft
MR-AP-MW-22D	Oxidation Reduction Potention	3/17/2022 10:45	-271.9	mv
MR-AP-MW-22D	pH	3/17/2022 10:45	7.95	SU
MR-AP-MW-22D	Temperature	3/17/2022 10:45	21.76	C
MR-AP-MW-22D	Turbidity	3/17/2022 10:45	0.96	NTU
MR-AP-MW-22D	Conductivity	3/17/2022 10:50	7590.07	uS/cm
MR-AP-MW-22D	DO	3/17/2022 10:50	0.09	mg/L
MR-AP-MW-22D	Depth to Water Detail	3/17/2022 10:50	73.81	ft
MR-AP-MW-22D	Oxidation Reduction Potention	3/17/2022 10:50	-274.2	mv
MR-AP-MW-22D	pH	3/17/2022 10:50	7.95	SU
MR-AP-MW-22D	Temperature	3/17/2022 10:50	21.45	C
MR-AP-MW-22D	Turbidity	3/17/2022 10:50	3.05	NTU
MR-AP-MW-22D	Conductivity	3/17/2022 10:55	7617.06	uS/cm
MR-AP-MW-22D	DO	3/17/2022 10:55	0.25	mg/L
MR-AP-MW-22D	Depth to Water Detail	3/17/2022 10:55	75.46	ft
MR-AP-MW-22D	Oxidation Reduction Potention	3/17/2022 10:55	-270.39	mv
MR-AP-MW-22D	pH	3/17/2022 10:55	7.96	SU
MR-AP-MW-22D	Temperature	3/17/2022 10:55	22.27	C
MR-AP-MW-22D	Turbidity	3/17/2022 10:55	2.12	NTU
MR-AP-MW-22D	Conductivity	3/17/2022 11:00	7659.56	uS/cm
MR-AP-MW-22D	DO	3/17/2022 11:00	0.35	mg/L
MR-AP-MW-22D	Depth to Water Detail	3/17/2022 11:00	75.46	ft
MR-AP-MW-22D	Oxidation Reduction Potention	3/17/2022 11:00	-269.14	mv
MR-AP-MW-22D	pH	3/17/2022 11:00	7.95	SU
MR-AP-MW-22D	Temperature	3/17/2022 11:00	22.44	C
MR-AP-MW-22D	Turbidity	3/17/2022 11:00	1.23	NTU
MR-AP-MW-22D	Conductivity	3/17/2022 11:05	7740.56	uS/cm
MR-AP-MW-22D	DO	3/17/2022 11:05	0.37	mg/L

**Groundwater Field Parameters  
Plant Miller Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-22D	Depth to Water Detail	3/17/2022 11:05	75.52	ft
MR-AP-MW-22D	Oxidation Reduction Potention	3/17/2022 11:05	-264.12	mv
MR-AP-MW-22D	pH	3/17/2022 11:05	7.95	SU
MR-AP-MW-22D	Temperature	3/17/2022 11:05	22.54	C
MR-AP-MW-22D	Turbidity	3/17/2022 11:05	2.05	NTU
MR-AP-MW-22D	Conductivity	3/17/2022 11:10	7738.13	uS/cm
MR-AP-MW-22D	DO	3/17/2022 11:10	0.39	mg/L
MR-AP-MW-22D	Depth to Water Detail	3/17/2022 11:10	75.56	ft
MR-AP-MW-22D	Oxidation Reduction Potention	3/17/2022 11:10	-258.78	mv
MR-AP-MW-22D	pH	3/17/2022 11:10	7.96	SU
MR-AP-MW-22D	Temperature	3/17/2022 11:10	22.2	C
MR-AP-MW-22D	Turbidity	3/17/2022 11:10	0.99	NTU
MR-AP-MW-22I	Conductivity	3/16/2022 14:35	805.02	uS/cm
MR-AP-MW-22I	DO	3/16/2022 14:35	0.13	mg/L
MR-AP-MW-22I	Depth to Water Detail	3/16/2022 14:35	28.62	ft
MR-AP-MW-22I	Oxidation Reduction Potention	3/16/2022 14:35	-132.46	mv
MR-AP-MW-22I	pH	3/16/2022 14:35	7.77	SU
MR-AP-MW-22I	Temperature	3/16/2022 14:35	21.67	C
MR-AP-MW-22I	Turbidity	3/16/2022 14:35	1.42	NTU
MR-AP-MW-22I	Conductivity	3/16/2022 14:40	689.66	uS/cm
MR-AP-MW-22I	DO	3/16/2022 14:40	0.1	mg/L
MR-AP-MW-22I	Depth to Water Detail	3/16/2022 14:40	28.69	ft
MR-AP-MW-22I	Oxidation Reduction Potention	3/16/2022 14:40	-141.85	mv
MR-AP-MW-22I	pH	3/16/2022 14:40	7.85	SU
MR-AP-MW-22I	Temperature	3/16/2022 14:40	21.71	C
MR-AP-MW-22I	Turbidity	3/16/2022 14:40	2.27	NTU
MR-AP-MW-22I	Conductivity	3/16/2022 14:45	646.13	uS/cm
MR-AP-MW-22I	DO	3/16/2022 14:45	0.08	mg/L
MR-AP-MW-22I	Depth to Water Detail	3/16/2022 14:45	28.74	ft
MR-AP-MW-22I	Oxidation Reduction Potention	3/16/2022 14:45	-146.44	mv
MR-AP-MW-22I	pH	3/16/2022 14:45	7.9	SU
MR-AP-MW-22I	Temperature	3/16/2022 14:45	21.74	C
MR-AP-MW-22I	Turbidity	3/16/2022 14:45	1.48	NTU
MR-AP-MW-22I	Conductivity	3/16/2022 14:50	637.55	uS/cm
MR-AP-MW-22I	DO	3/16/2022 14:50	0.07	mg/L
MR-AP-MW-22I	Depth to Water Detail	3/16/2022 14:50	28.79	ft
MR-AP-MW-22I	Oxidation Reduction Potention	3/16/2022 14:50	-148.79	mv
MR-AP-MW-22I	pH	3/16/2022 14:50	7.92	SU
MR-AP-MW-22I	Temperature	3/16/2022 14:50	21.74	C
MR-AP-MW-22I	Turbidity	3/16/2022 14:50	2.52	NTU
MR-AP-MW-22I	Conductivity	3/16/2022 14:55	638.79	uS/cm
MR-AP-MW-22I	DO	3/16/2022 14:55	0.07	mg/L
MR-AP-MW-22I	Depth to Water Detail	3/16/2022 14:55	28.81	ft
MR-AP-MW-22I	Oxidation Reduction Potention	3/16/2022 14:55	-150.08	mv
MR-AP-MW-22I	pH	3/16/2022 14:55	7.94	SU

**Groundwater Field Parameters  
Plant Miller Ash Pond**

<b>WELL ID</b>	<b>DESCRIPTION</b>	<b>TIME OF READING</b>	<b>VALUE</b>	<b>UNIT</b>
MR-AP-MW-22I	Temperature	3/16/2022 14:55	21.58	C
MR-AP-MW-22I	Turbidity	3/16/2022 14:55	1.85	NTU

**Groundwater Field Parameters  
Plant Miller Ash Pond**

<b>WELL ID</b>	<b>DESCRIPTION</b>	<b>TIME OF READING</b>	<b>VALUE</b>	<b>UNIT</b>
MR-AP-MW-22S	Conductivity	3/16/2022 13:09	1128.64	uS/cm
MR-AP-MW-22S	DO	3/16/2022 13:09	0.1	mg/L
MR-AP-MW-22S	Depth to Water Detail	3/16/2022 13:09	14.26	ft
MR-AP-MW-22S	Oxidation Reduction Potential	3/16/2022 13:09	-70.39	mv
MR-AP-MW-22S	pH	3/16/2022 13:09	7.02	SU
MR-AP-MW-22S	Temperature	3/16/2022 13:09	21.2	C
MR-AP-MW-22S	Turbidity	3/16/2022 13:09	0.93	NTU
MR-AP-MW-22S	Conductivity	3/16/2022 13:14	1105.07	uS/cm
MR-AP-MW-22S	DO	3/16/2022 13:14	0.08	mg/L
MR-AP-MW-22S	Depth to Water Detail	3/16/2022 13:14	14.31	ft
MR-AP-MW-22S	Oxidation Reduction Potential	3/16/2022 13:14	-68.56	mv
MR-AP-MW-22S	pH	3/16/2022 13:14	6.98	SU
MR-AP-MW-22S	Temperature	3/16/2022 13:14	21.27	C
MR-AP-MW-22S	Turbidity	3/16/2022 13:14	1.34	NTU
MR-AP-MW-22S	Conductivity	3/16/2022 13:19	1091.31	uS/cm
MR-AP-MW-22S	DO	3/16/2022 13:19	0.07	mg/L
MR-AP-MW-22S	Depth to Water Detail	3/16/2022 13:19	14.34	ft
MR-AP-MW-22S	Oxidation Reduction Potential	3/16/2022 13:19	-66.91	mv
MR-AP-MW-22S	pH	3/16/2022 13:19	6.94	SU
MR-AP-MW-22S	Temperature	3/16/2022 13:19	21.34	C
MR-AP-MW-22S	Turbidity	3/16/2022 13:19	1.16	NTU
MR-AP-MW-22S	Conductivity	3/16/2022 13:24	1078.5	uS/cm
MR-AP-MW-22S	DO	3/16/2022 13:24	0.07	mg/L
MR-AP-MW-22S	Depth to Water Detail	3/16/2022 13:24	14.34	ft
MR-AP-MW-22S	Oxidation Reduction Potential	3/16/2022 13:24	-65.98	mv
MR-AP-MW-22S	pH	3/16/2022 13:24	6.92	SU
MR-AP-MW-22S	Temperature	3/16/2022 13:24	21.34	C
MR-AP-MW-22S	Turbidity	3/16/2022 13:24	0.88	NTU
MR-AP-MW-22S	Conductivity	3/16/2022 13:29	1075.17	uS/cm
MR-AP-MW-22S	DO	3/16/2022 13:29	0.07	mg/L
MR-AP-MW-22S	Depth to Water Detail	3/16/2022 13:29	14.34	ft
MR-AP-MW-22S	Oxidation Reduction Potential	3/16/2022 13:29	-66.46	mv
MR-AP-MW-22S	pH	3/16/2022 13:29	6.92	SU
MR-AP-MW-22S	Temperature	3/16/2022 13:29	21.28	C
MR-AP-MW-22S	Turbidity	3/16/2022 13:29	0.87	NTU

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

# *Analytical Report*



**Sample Group :** WMWMILAP\_1354

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



April 26, 2022

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory between March 10, 2022 and March 17, 2022. All results reported herein conform to the laboratory's most current Quality Assurance Manual. Results marked with an asterisk conform to the most current applicable TNI/NELAC requirements. Exceptions will be noted in the body of the report.

Laboratory certification ID: E571114  
Issued By: State of Florida, Department of Health  
Expiration: June 30, 2022

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

Sincerely,

Quality Control: **Brooke  
Caton**

Digitally signed by Brooke  
Caton  
Date: 2022.04.28  
13:37:59 -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 |u=US United States  
e=tdurmaske@southernco.com  
Reason: I am approving this document  
Location:  
Date: 2022-04-28 18:49:05.00



### 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\_1354

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>
BC05057	720685	WMWMILAP_1354
BC05058	720685	WMWMILAP_1354
BC05059	720685	WMWMILAP_1354
BC05060	720685	WMWMILAP_1354
BC05061	720685	WMWMILAP_1354
BC05062	720685	WMWMILAP_1354
BC05063	720685	WMWMILAP_1354
BC05064	720685	WMWMILAP_1354
BC05065	720685	WMWMILAP_1354
BC05066	720685	WMWMILAP_1354
BC05067	720686	WMWMILAP_1354
BC05068	720686	WMWMILAP_1354
BC05069	720686	WMWMILAP_1354
BC05070	720686	WMWMILAP_1354
BC05071	720686	WMWMILAP_1354
BC05072	720686	WMWMILAP_1354
BC05073	720686	WMWMILAP_1354
BC05074	720686	WMWMILAP_1354
BC05075	720686	WMWMILAP_1354
BC05076	720686	WMWMILAP_1354
BC05077	720687	WMWMILAP_1354
BC05459	720687	WMWMILAP_1354
BC05460	720687	WMWMILAP_1354
BC05461	720687	WMWMILAP_1354
BC05462	720687	WMWMILAP_1354
BC05463	720687	WMWMILAP_1354
BC05464	720687	WMWMILAP_1354
BC05465	720687	WMWMILAP_1354
BC05466	720687	WMWMILAP_1354
BC05467	720687	WMWMILAP_1354
BC05468	720923	WMWMILAP_1354

BC05469	720923	WMWMILAP_1354
BC05470	720923	WMWMILAP_1354
BC05676	721930	WMWMILAP_1354
BC05677	721930	WMWMILAP_1354
BC05678	721930	WMWMILAP_1354
BC05679	721930	WMWMILAP_1354
BC05680	721930	WMWMILAP_1354
BC05681	721930	WMWMILAP_1354
BC05682	721930	WMWMILAP_1354
BC05683	721930	WMWMILAP_1354
BC05684	721930	WMWMILAP_1354
BC05685	721930	WMWMILAP_1354
BC05686	721931	WMWMILAP_1354
BC05687	721931	WMWMILAP_1354
BC05688	721931	WMWMILAP_1354
BC05689	721931	WMWMILAP_1354
BC05690	721931	WMWMILAP_1354
BC05691	721931	WMWMILAP_1354
BC05692	721931	WMWMILAP_1354
BC05693	721931	WMWMILAP_1354
BC05694	721931	WMWMILAP_1354
BC05695	721931	WMWMILAP_1354
BC05696	721932	WMWMILAP_1354

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:
    - BC05066 Calcium, Iron, & Sodium MS/MSD spike levels were <30% of the sample concentrations.
    - BC05470 Calcium, Iron, & Sodium MS/MSD spike levels were <30% of the sample concentrations.
    - BC05077 Sodium MS/MSD spike level was <30% of the sample concentration.
    - BC05685 Calcium, Magnesium, & Sodium MS/MSD spike levels were <30% of the sample concentrations.
    - BC05695 Sodium MS/MSD spike level was <30% of the sample concentration.
    - Bc05696 Calcium & 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>
BC05057	Calcium	10.15
BC05058	Calcium, Sodium	10.15
BC05059	Sodium	10.15
BC05060	Calcium, Iron, Sodium	10.15
BC05061	Calcium, Sodium	10.15
BC05063	Calcium, Iron	10.15
BC05064	Calcium, Iron, Sodium	10.15
BC05065	Calcium, Iron, Sodium	10.15
BC05066	Calcium, Iron, Sodium, Magnesium	10.15
BC05067	Calcium, Magnesium	10.15
BC05068	Calcium, Magnesium	10.15
BC05069	Calcium, Sodium	10.15
BC05070	Iron	10.15

## Case Narrative

BC05071	Iron	10.15
BC05073	Calcium, Sodium	10.15
BC05074	Calcium, Iron, Magnesium	10.15
BC05075	Sodium	101.5
BC05077	Sodium	10.15
BC05459	Calcium, Sodium	10.15
BC05460	Calcium, Iron, Sodium	10.15
BC05461	Calcium, Iron, Sodium	10.15
BC05462	Sodium	10.15
BC05463	Calcium	10.15
BC05464	Calcium, Sodium, Magnesium	10.15
BC05465	Calcium, Sodium, Magnesium	10.15
BC05466	Calcium, Sodium	10.15
BC05467	Calcium	10.15
BC05469	Calcium, Magnesium	10.15
BC05469	Sodium	101.5
BC05470	Calcium, Iron, Sodium	10.15
BC05676	Calcium, Iron, Sodium	20.3
BC05677	Calcium, Sodium	20.3
BC05678	Sodium	20.3
BC05680	Calcium, Sodium	20.3
BC05681	Calcium, Iron, Sodium, Magnesium	101.5
BC05682	Calcium, Sodium	20.3
BC05683	Calcium, Sodium	20.3
BC05684	Sodium	20.3
BC05685	Calcium, Magnesium, Sodium	20.3
BC05686	Calcium, Iron, Sodium, Magnesium	10.15
BC05688	Sodium	50.75
BC05689	Calcium, Magnesium, Sodium	10.15
BC05690	Calcium, Magnesium, Sodium	50.75
BC05692	Calcium, Magnesium, Sodium	50.75
BC05693	Calcium, Magnesium, Sodium	10.15
BC05694	Calcium, Magnesium, Sodium	10.15
BC05695	Sodium	10.15
BC05696	Calcium, Sodium	50.75

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

Dissolved Metals ICP

Miller Ash Pond

WMWMILAP\_1354

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>
BC05057	720645	WMWMILAP_1354
BC05058	720645	WMWMILAP_1354
BC05059	720645	WMWMILAP_1354
BC05060	720645	WMWMILAP_1354
BC05061	720645	WMWMILAP_1354
BC05063	720645	WMWMILAP_1354
BC05064	720645	WMWMILAP_1354
BC05065	720645	WMWMILAP_1354
BC05066	720645	WMWMILAP_1354
BC05067	720645	WMWMILAP_1354
BC05068	720646	WMWMILAP_1354
BC05069	720646	WMWMILAP_1354
BC05070	720646	WMWMILAP_1354
BC05071	720646	WMWMILAP_1354
BC05072	720646	WMWMILAP_1354
BC05073	720646	WMWMILAP_1354
BC05074	720646	WMWMILAP_1354
BC05075	720646	WMWMILAP_1354
BC05077	720646	WMWMILAP_1354
BC05459	720948	WMWMILAP_1354
BC05460	720948	WMWMILAP_1354
BC05461	720948	WMWMILAP_1354
BC05462	720948	WMWMILAP_1354
BC05463	720948	WMWMILAP_1354
BC05464	720948	WMWMILAP_1354
BC05465	720948	WMWMILAP_1354
BC05466	720948	WMWMILAP_1354
BC05467	720948	WMWMILAP_1354
BC05469	720948	WMWMILAP_1354
BC05470	720949	WMWMILAP_1354
BC05676	721890	WMWMILAP_1354

BC05677	721890	WMWMILAP_1354
BC05678	721890	WMWMILAP_1354
BC05680	721890	WMWMILAP_1354
BC05681	721890	WMWMILAP_1354
BC05682	721890	WMWMILAP_1354
BC05683	721890	WMWMILAP_1354
BC05684	721890	WMWMILAP_1354
BC05685	721890	WMWMILAP_1354
BC05686	721890	WMWMILAP_1354
BC05688	721891	WMWMILAP_1354
BC05689	721891	WMWMILAP_1354
BC05690	721891	WMWMILAP_1354
BC05692	721891	WMWMILAP_1354
BC05693	721891	WMWMILAP_1354
BC05694	721891	WMWMILAP_1354
BC05695	721891	WMWMILAP_1354
BC05696	721891	WMWMILAP_1354

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:
    - BC05067 Calcium, Iron, & Magnesium MS/MSD spike levels were <30% of the sample concentrations.
    - BC05470 Calcium & Iron MS/MSD spike levels were <30% of the sample concentrations.
    - BC05077 Sodium MS/MSD spike level was <30% of the sample concentration.
    - BC05469 Calcium, Magnesium, & Sodium MS/MSD spike levels were <30% of the sample concentrations.
    - BC05696 Calcium & Sodium MS/MSD spike levels were <30% of the sample concentrations.
  - A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BC05057	Calcium	10.15
BC05058	Calcium, Sodium	10.15
BC05059	Sodium	10.15
BC05060	Calcium, Iron, Sodium	10.15
BC05061	Calcium, Sodium	10.15
BC05063	Calcium	10.15
BC05064	Calcium, Iron, Sodium	10.15
BC05065	Calcium, Iron, Sodium	10.15
BC05066	Calcium, Iron, Sodium, Magnesium	10.15
BC05067	Calcium, Magnesium	10.15
BC05068	Calcium, Magnesium	10.15
BC05069	Calcium, Sodium	10.15
BC05070	Calcium, Iron	10.15
BC05071	Calcium, Iron	10.15
BC05073	Calcium, Sodium	10.15
BC05074	Calcium, Iron, Magnesium	10.15
BC05075	Sodium	101.5
BC05077	Sodium	10.15
BC05459	Calcium, Sodium	10.15
BC05460	Calcium, Iron, Sodium	10.15
BC05461	Calcium, Iron, Sodium	10.15



## Case Narrative

BC05462	Sodium	10.15
BC05463	Calcium	10.15
BC05464	Calcium, Magnesium, Sodium	10.15
BC05465	Calcium, Sodium	10.15
BC05466	Calcium	10.15
BC05467	Calcium	10.15
BC05469	Calcium, Magnesium, Sodium	50.75
BC05470	Calcium, Iron, Sodium	10.15
BC05676	Calcium, Iron, Sodium	20.3
BC05677	Calcium, Sodium	20.3
BC05678	Sodium	20.3
BC05680	Calcium, Sodium	20.3
BC05681	Calcium, Iron, Sodium, Magnesium	101.5
BC05682	Calcium, Sodium	20.3
BC05683	Calcium, Sodium	20.3
BC05684	Sodium	20.3
BC05685	Calcium, Magnesium, Sodium	20.3
BC05686	Calcium, Iron, Sodium, Magnesium	20.3
BC05688	Sodium	101.5
BC05689	Calcium, Magnesium, Sodium	10.15
BC05690	Calcium, Magnesium, Sodium	50.75
BC05692	Calcium, Magnesium, Sodium	50.75
BC05693	Calcium, Magnesium, Sodium	10.15
BC05694	Calcium, Magnesium, Sodium	10.15
BC05695	Sodium	101.5
BC05696	Calcium, Sodium	50.75

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

Total Metals ICPMS

Miller Ash Pond

WMWMILAP\_1354

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>
BC05057	721361	WMWMILAP_1354
BC05058	721361	WMWMILAP_1354
BC05059	721361	WMWMILAP_1354
BC05060	721361	WMWMILAP_1354
BC05061	721361	WMWMILAP_1354
BC05062	721361	WMWMILAP_1354
BC05063	721361	WMWMILAP_1354
BC05064	721361	WMWMILAP_1354
BC05065	721361	WMWMILAP_1354
BC05066	721361	WMWMILAP_1354
BC05067	721362	WMWMILAP_1354
BC05068	721362	WMWMILAP_1354
BC05069	721362	WMWMILAP_1354
BC05070	721362	WMWMILAP_1354
BC05071	721362	WMWMILAP_1354
BC05072	721362	WMWMILAP_1354
BC05073	721362	WMWMILAP_1354
BC05074	721362	WMWMILAP_1354
BC05075	721362	WMWMILAP_1354
BC05076	721362	WMWMILAP_1354
BC05077	721363	WMWMILAP_1354
BC05459	721233	WMWMILAP_1354
BC05460	721233	WMWMILAP_1354
BC05461	721233	WMWMILAP_1354
BC05462	721233	WMWMILAP_1354
BC05463	721233	WMWMILAP_1354
BC05464	721233	WMWMILAP_1354
BC05465	721233	WMWMILAP_1354
BC05466	721233	WMWMILAP_1354
BC05467	721233	WMWMILAP_1354
BC05468	721233	WMWMILAP_1354

BC05469	721234	WMWMILAP_1354
BC05470	721234	WMWMILAP_1354
BC05676	721827	WMWMILAP_1354
BC05677	721827	WMWMILAP_1354
BC05678	721827	WMWMILAP_1354
BC05679	721827	WMWMILAP_1354
BC05680	721827	WMWMILAP_1354
BC05681	721827	WMWMILAP_1354
BC05682	721827	WMWMILAP_1354
BC05683	721827	WMWMILAP_1354
BC05684	721827	WMWMILAP_1354
BC05685	721827	WMWMILAP_1354
BC05686	721828	WMWMILAP_1354
BC05687	721828	WMWMILAP_1354
BC05688	721828	WMWMILAP_1354
BC05689	721828	WMWMILAP_1354
BC05690	721828	WMWMILAP_1354
BC05691	721828	WMWMILAP_1354
BC05692	721828	WMWMILAP_1354
BC05693	721828	WMWMILAP_1354
BC05694	721828	WMWMILAP_1354
BC05695	721828	WMWMILAP_1354
BC05696	721829	WMWMILAP_1354

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:
    - BC05077 Selenium MS/MSD recoveries were outside of the specification limits.
    - BC05696 Barium 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>
BC05060	Manganese	5.075
BC05074	Manganese	5.075
BC05459	Manganese	5.075
BC05460	Manganese	5.075
BC05461	Manganese	5.075
BC05463	Manganese	5.075
BC05464	Manganese	5.075
BC05465	Manganese	5.075
BC05469	Barium	92.365
BC05676	Manganese	10.15
BC05681	Manganese	5.075
BC05692	Barium	10.15
BC05696	Barium	5.075

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

Dissolved Metals ICPMS

Miller Ash Pond

WMWMILAP\_1354

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>
BC05057	721424	WMWMILAP_1354
BC05058	721424	WMWMILAP_1354
BC05059	721424	WMWMILAP_1354
BC05060	721424	WMWMILAP_1354
BC05061	721424	WMWMILAP_1354
BC05063	721424	WMWMILAP_1354
BC05064	721424	WMWMILAP_1354
BC05065	721424	WMWMILAP_1354
BC05066	721424	WMWMILAP_1354
BC05067	721424	WMWMILAP_1354
BC05068	721425	WMWMILAP_1354
BC05069	721425	WMWMILAP_1354
BC05070	721425	WMWMILAP_1354
BC05071	721425	WMWMILAP_1354
BC05072	721425	WMWMILAP_1354
BC05073	721425	WMWMILAP_1354
BC05074	721425	WMWMILAP_1354
BC05075	721425	WMWMILAP_1354
BC05077	721425	WMWMILAP_1354
BC05459	721173	WMWMILAP_1354
BC05460	721173	WMWMILAP_1354
BC05461	721173	WMWMILAP_1354
BC05462	721173	WMWMILAP_1354
BC05463	721173	WMWMILAP_1354
BC05464	721173	WMWMILAP_1354
BC05465	721173	WMWMILAP_1354
BC05466	721173	WMWMILAP_1354
BC05467	721173	WMWMILAP_1354
BC05469	721173	WMWMILAP_1354
BC05470	721174	WMWMILAP_1354
BC05676	721475	WMWMILAP_1354

BC05677	721475	WMWMILAP_1354
BC05678	721475	WMWMILAP_1354
BC05680	721475	WMWMILAP_1354
BC05681	721475	WMWMILAP_1354
BC05682	721475	WMWMILAP_1354
BC05683	721475	WMWMILAP_1354
BC05684	721475	WMWMILAP_1354
BC05685	721475	WMWMILAP_1354
BC05686	721475	WMWMILAP_1354
BC05688	721476	WMWMILAP_1354
BC05689	721476	WMWMILAP_1354
BC05690	721476	WMWMILAP_1354
BC05692	721476	WMWMILAP_1354
BC05693	721476	WMWMILAP_1354
BC05694	721476	WMWMILAP_1354
BC05695	721476	WMWMILAP_1354
BC05696	721476	WMWMILAP_1354

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 except for the following:
    - BC05077 Selenium MS/MSD recoveries were outside of the specification limits.
    - BC05067 Manganese MS/MSD spike level was <30% of the sample concentration
    - BC05469 Barium MS/MSD spike level was <30% of the sample concentration.
    - BC05696 Barium MS/MSD spike level was <30% of the sample concentration.
  - A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for precision were met.
7. The following 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>
BC05060	Manganese	5.075
BC05074	Manganese	5.075
BC05459	Manganese	5.075
BC05460	Manganese	5.075
BC05461	Manganese	5.075
BC05463	Manganese	5.075
BC05464	Manganese	5.075
BC05465	Manganese	5.075
BC05469	Barium	92.365
BC05676	Manganese	10.15
BC05681	Manganese	5.075
BC05692	Barium	10.15
BC05696	Barium	5.075

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

Mercury

Miller Ash Pond

WMWMILAP\_1354

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>
BC05057	720423	WMWMILAP_1354
BC05058	720423	WMWMILAP_1354
BC05059	720423	WMWMILAP_1354
BC05060	720423	WMWMILAP_1354
BC05061	720423	WMWMILAP_1354
BC05062	720423	WMWMILAP_1354
BC05063	720423	WMWMILAP_1354
BC05064	720423	WMWMILAP_1354
BC05065	720423	WMWMILAP_1354
BC05066	720423	WMWMILAP_1354
BC05067	720424	WMWMILAP_1354
BC05068	720424	WMWMILAP_1354
BC05069	720424	WMWMILAP_1354
BC05070	720424	WMWMILAP_1354
BC05071	720424	WMWMILAP_1354
BC05072	720424	WMWMILAP_1354
BC05073	720424	WMWMILAP_1354
BC05074	720424	WMWMILAP_1354
BC05075	720424	WMWMILAP_1354
BC05076	720424	WMWMILAP_1354
BC05077	720995	WMWMILAP_1354
BC05459	720995	WMWMILAP_1354
BC05460	720995	WMWMILAP_1354
BC05461	720995	WMWMILAP_1354
BC05462	720995	WMWMILAP_1354
BC05463	720995	WMWMILAP_1354
BC05464	720995	WMWMILAP_1354
BC05465	720995	WMWMILAP_1354
BC05466	720995	WMWMILAP_1354
BC05467	720995	WMWMILAP_1354
BC05468	720996	WMWMILAP_1354



BC05469	720996	WMWMILAP_1354
BC05470	720996	WMWMILAP_1354
BC05676	720996	WMWMILAP_1354
BC05677	720996	WMWMILAP_1354
BC05678	720996	WMWMILAP_1354
BC05679	720996	WMWMILAP_1354
BC05680	720996	WMWMILAP_1354
BC05681	720996	WMWMILAP_1354
BC05682	720996	WMWMILAP_1354
BC05683	720997	WMWMILAP_1354
BC05684	720997	WMWMILAP_1354
BC05685	720997	WMWMILAP_1354
BC05686	720997	WMWMILAP_1354
BC05687	720997	WMWMILAP_1354
BC05688	720997	WMWMILAP_1354
BC05689	720997	WMWMILAP_1354
BC05690	720997	WMWMILAP_1354
BC05691	720997	WMWMILAP_1354
BC05692	720997	WMWMILAP_1354
BC05693	720998	WMWMILAP_1354
BC05694	720998	WMWMILAP_1354
BC05695	720998	WMWMILAP_1354
BC05696	720998	WMWMILAP_1354

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\_1354

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>
BC05057	720530	WMWMILAP_1354
BC05058	720530	WMWMILAP_1354
BC05059	720530	WMWMILAP_1354
BC05060	720530	WMWMILAP_1354
BC05061	720530	WMWMILAP_1354
BC05062	720530	WMWMILAP_1354
BC05063	720530	WMWMILAP_1354
BC05064	720530	WMWMILAP_1354
BC05065	720530	WMWMILAP_1354
BC05066	720530	WMWMILAP_1354
BC05067	720531	WMWMILAP_1354
BC05068	720531	WMWMILAP_1354
BC05069	720531	WMWMILAP_1354
BC05070	720531	WMWMILAP_1354
BC05071	720531	WMWMILAP_1354
BC05072	720531	WMWMILAP_1354
BC05073	720842	WMWMILAP_1354
BC05074	720842	WMWMILAP_1354
BC05075	720531	WMWMILAP_1354
BC05076	720531	WMWMILAP_1354
BC05077	720842	WMWMILAP_1354
BC05459	720842	WMWMILAP_1354
BC05460	720842	WMWMILAP_1354
BC05461	720843	WMWMILAP_1354
BC05462	720843	WMWMILAP_1354
BC05463	720843	WMWMILAP_1354
BC05464	720843	WMWMILAP_1354
BC05465	720843	WMWMILAP_1354
BC05466	720843	WMWMILAP_1354
BC05467	720843	WMWMILAP_1354
BC05468	720843	WMWMILAP_1354

BC05469	720843	WMWMILAP_1354
BC05470	720843	WMWMILAP_1354
BC05676	721047	WMWMILAP_1354
BC05677	721048	WMWMILAP_1354
BC05678	721048	WMWMILAP_1354
BC05679	721048	WMWMILAP_1354
BC05680	721048	WMWMILAP_1354
BC05681	721566	WMWMILAP_1354
BC05682	721566	WMWMILAP_1354
BC05683	721566	WMWMILAP_1354
BC05684	721566	WMWMILAP_1354
BC05685	721048	WMWMILAP_1354
BC05686	721048	WMWMILAP_1354
BC05687	721566	WMWMILAP_1354
BC05688	721566	WMWMILAP_1354
BC05689	721566	WMWMILAP_1354
BC05690	721566	WMWMILAP_1354
BC05691	721566	WMWMILAP_1354
BC05692	721048	WMWMILAP_1354
BC05693	721048	WMWMILAP_1354
BC05694	721048	WMWMILAP_1354
BC05695	721048	WMWMILAP_1354
BC05696	721566	WMWMILAP_1354

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:
  - BC05062
  - BC05076
  - BC05468
  - BC05679
  - BC05687
  - BC05691

Anions

Miller Ash Pond

WMWMILAP\_1354

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>
BC05057	720973, 721463, & 721637	WMWMILAP_1354
BC05058	720973, 721463, & 721637	WMWMILAP_1354
BC05059	720973, 721463, & 721637	WMWMILAP_1354
BC05060	720973, 721463, & 721637	WMWMILAP_1354
BC05061	720973, 721463, & 721637	WMWMILAP_1354
BC05062	720973, 721463, & 721637	WMWMILAP_1354
BC05063	720973, 721463, & 721637	WMWMILAP_1354
BC05064	720973, 721463, & 721637	WMWMILAP_1354
BC05065	720973, 721463, & 721637	WMWMILAP_1354
BC05066	720973, 721463, & 721637	WMWMILAP_1354
BC05067	720974, 721464, & 721638	WMWMILAP_1354
BC05068	720974, 721464, & 721638	WMWMILAP_1354
BC05069	720974, 721464, & 721638	WMWMILAP_1354
BC05070	720974, 721464, & 721638	WMWMILAP_1354
BC05071	720974, 721464, & 721638	WMWMILAP_1354
BC05072	720974, 721464, & 721638	WMWMILAP_1354
BC05073	720974, 721464, & 721638	WMWMILAP_1354
BC05074	720974, 721464, & 721638	WMWMILAP_1354
BC05075	720974, 721464, & 721638	WMWMILAP_1354
BC05076	720974, 721464, & 721638	WMWMILAP_1354
BC05077	720975, 721465, & 721689	WMWMILAP_1354
BC05459	721283, 721465, & 721689	WMWMILAP_1354
BC05460	721283, 721465, & 721689	WMWMILAP_1354
BC05461	721283, 721465, & 721689	WMWMILAP_1354
BC05462	721283, 721465, & 721689	WMWMILAP_1354
BC05463	721283, 721465, & 721689	WMWMILAP_1354
BC05464	721283, 721465, & 721689	WMWMILAP_1354
BC05465	721283, 721465, & 721689	WMWMILAP_1354
BC05466	721283, 721465, & 721689	WMWMILAP_1354
BC05467	721283, 721465, & 721689	WMWMILAP_1354
BC05468	721283, 721466, & 721690	WMWMILAP_1354

BC05469	721284, 721466, & 721690	WMWMILAP_1354
BC05470	721284, 721466, & 721690	WMWMILAP_1354
BC05676	721284, 721466, & 721690	WMWMILAP_1354
BC05677	721284, 721466, & 721690	WMWMILAP_1354
BC05678	721284, 721466, & 721690	WMWMILAP_1354
BC05679	721284, 721466, & 721690	WMWMILAP_1354
BC05680	721284, 721466, & 721690	WMWMILAP_1354
BC05681	721284, 721466, & 721690	WMWMILAP_1354
BC05682	721284, 721466, & 721690	WMWMILAP_1354
BC05683	721284, 721467, & 721691	WMWMILAP_1354
BC05684	721285, 721467, & 721691	WMWMILAP_1354
BC05685	721285, 721467, & 721691	WMWMILAP_1354
BC05686	721285, 721467, & 721691	WMWMILAP_1354
BC05687	721285, 721467, & 721691	WMWMILAP_1354
BC05688	721285, 721467, & 721691	WMWMILAP_1354
BC05689	721285, 721467, & 721691	WMWMILAP_1354
BC05690	721285, 721467, & 721691	WMWMILAP_1354
BC05691	721285, 721467, & 721691	WMWMILAP_1354
BC05692	721285, 721467, & 721691	WMWMILAP_1354
BC05693	721285, 721468, & 721692	WMWMILAP_1354
BC05694	721286, 721468, & 721692	WMWMILAP_1354
BC05695	721286, 721468, & 721692	WMWMILAP_1354
BC05696	721286, 721468, & 721692	WMWMILAP_1354

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>
BC05057	Sulfate	16
BC05058	Sulfate	2
BC05059	Sulfate	8
BC05060	Chloride & Sulfate	2 & 16
BC05061	Chloride & Sulfate	4 & 25
BC05064	Chloride & Sulfate	2 & 25
BC05065	Chloride & Sulfate	2 & 25
BC05066	Chloride & Sulfate	4 & 50
BC05067	Sulfate	25
BC05068	Sulfate	20
BC05069	Sulfate	32
BC05070	Sulfate	8
BC05071	Sulfate	8
BC05072	Sulfate	2
BC05073	Chloride & Sulfate	4 & 16
BC05074	Sulfate	50
BC05075	Chloride & Sulfate	10 & 5
BC05077	Chloride & Sulfate	16 & 10
BC05459	Chloride & Sulfate	2 & 32
BC05460	Chloride & Sulfate	2 & 32

## Case Narrative

BC05461	Chloride & Sulfate	2 & 32
BC05462	Chloride & Sulfate	3 & 2
BC05463	Sulfate	25
BC05464	Chloride & Sulfate	2 & 32
BC05465	Chloride & Sulfate	2 & 32
BC05466	Sulfate	2
BC05467	Sulfate	10
BC05469	Chloride	200
BC05470	Sulfate	25
BC05676	Chloride & Sulfate	3 & 32
BC05677	Chloride & Sulfate	3 & 16
BC05678	Chloride & Sulfate	5 & 16
BC05680	Sulfate	20
BC05681	Sulfate	50
BC05682	Sulfate	40
BC05683	Sulfate	8
BC05685	Chloride & Sulfate	10 & 32
BC05686	Sulfate	25
BC05688	Chloride & Sulfate	40 & 25
BC05689	Sulfate	20
BC05690	Sulfate	50
BC05692	Chloride & Sulfate	200 & 3
BC05693	Chloride & Sulfate	20 & 8
BC05694	Chloride & Sulfate	10 & 8
BC05695	Chloride	5
BC05696	Chloride & Sulfate	200 & 8

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



Alkalinity

Miller Ash Pond

WMWMILAP\_1354

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>
BC05057	720640 & 720641	WMWMILAP_1354
BC05058	720640 & 720641	WMWMILAP_1354
BC05059	720640 & 720641	WMWMILAP_1354
BC05060	720640 & 720641	WMWMILAP_1354
BC05061	720640 & 720641	WMWMILAP_1354
BC05063	720640 & 720641	WMWMILAP_1354
BC05064	720640 & 720641	WMWMILAP_1354
BC05065	720640 & 720641	WMWMILAP_1354
BC05066	720640 & 720641	WMWMILAP_1354
BC05067	720640 & 720641	WMWMILAP_1354
BC05068	720640 & 720641	WMWMILAP_1354
BC05069	720640 & 720641	WMWMILAP_1354
BC05070	720640 & 720641	WMWMILAP_1354
BC05071	720640 & 720641	WMWMILAP_1354
BC05072	720640 & 720641	WMWMILAP_1354
BC05073	720640 & 720641	WMWMILAP_1354
BC05074	720640 & 720641	WMWMILAP_1354
BC05075	720640 & 720641	WMWMILAP_1354
BC05077	720640 & 720641	WMWMILAP_1354
BC05459	721639 & 721640	WMWMILAP_1354
BC05460	721639 & 721640	WMWMILAP_1354
BC05461	721639 & 721640	WMWMILAP_1354
BC05462	721639 & 721640	WMWMILAP_1354
BC05463	721639 & 721640	WMWMILAP_1354
BC05464	721639 & 721640	WMWMILAP_1354
BC05465	721843 & 721844	WMWMILAP_1354
BC05466	721843 & 721844	WMWMILAP_1354
BC05467	721843 & 721844	WMWMILAP_1354
BC05469	721843 & 721844	WMWMILAP_1354
BC05470	721843 & 721844	WMWMILAP_1354
BC05676	721843 & 721844	WMWMILAP_1354

BC05677	721843 & 721844	WMWMILAP_1354
BC05678	721843 & 721844	WMWMILAP_1354
BC05680	721843 & 721844	WMWMILAP_1354
BC05681	721843 & 721844	WMWMILAP_1354
BC05682	722036 & 722037	WMWMILAP_1354
BC05683	722036 & 722037	WMWMILAP_1354
BC05684	722036 & 722037	WMWMILAP_1354
BC05685	722036 & 722037	WMWMILAP_1354
BC05686	722036 & 722037	WMWMILAP_1354
BC05688	722036 & 722037	WMWMILAP_1354
BC05689	722036 & 722037	WMWMILAP_1354
BC05690	722036 & 722037	WMWMILAP_1354
BC05692	722036 & 722037	WMWMILAP_1354
BC05693	722036 & 722037	WMWMILAP_1354
BC05694	722036 & 722037	WMWMILAP_1354
BC05695	722036 & 722037	WMWMILAP_1354
BC05696	722036 & 722037	WMWMILAP_1354

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:

- |           |           |           |           |
|-----------|-----------|-----------|-----------|
| • BC05060 | • BC05074 | • BC05465 | • BC05685 |
| • BC05061 | • BC05075 | • BC05469 | • BC05686 |
| • BC05064 | • BC05077 | • BC05470 | • BC05688 |
| • BC05065 | • BC05459 | • BC05676 | • BC05689 |
| • BC05066 | • BC05460 | • BC05677 | • BC05690 |
| • BC05067 | • BC05461 | • BC05678 | • BC05692 |
| • BC05068 | • BC05462 | • BC05680 | • BC05693 |
| • BC05069 | • BC05463 | • BC05681 | • BC05694 |
| • BC05073 | • BC05464 | • BC05682 | • BC05696 |

Nitrate-Nitrite

Miller Ash Pond

WMWMILAP\_1354

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>
BC05057	721168	WMWMILAP_1354
BC05058	721168	WMWMILAP_1354
BC05059	721168	WMWMILAP_1354
BC05060	721168	WMWMILAP_1354
BC05061	721168	WMWMILAP_1354
BC05062	721168	WMWMILAP_1354
BC05063	721168	WMWMILAP_1354
BC05064	721168	WMWMILAP_1354
BC05065	721168	WMWMILAP_1354
BC05066	721168	WMWMILAP_1354
BC05067	721169	WMWMILAP_1354
BC05068	721169	WMWMILAP_1354
BC05069	721169	WMWMILAP_1354
BC05070	721169	WMWMILAP_1354
BC05071	721169	WMWMILAP_1354
BC05072	721169	WMWMILAP_1354
BC05073	721169	WMWMILAP_1354
BC05074	721169	WMWMILAP_1354
BC05075	721169	WMWMILAP_1354
BC05076	721169	WMWMILAP_1354
BC05077	721170	WMWMILAP_1354
BC05459	721170	WMWMILAP_1354
BC05460	721170	WMWMILAP_1354
BC05461	721170	WMWMILAP_1354
BC05462	721170	WMWMILAP_1354
BC05463	721170	WMWMILAP_1354
BC05464	721170	WMWMILAP_1354
BC05465	721170	WMWMILAP_1354
BC05466	721170	WMWMILAP_1354
BC05467	721170	WMWMILAP_1354
BC05468	721561	WMWMILAP_1354

BC05469	721561	WMWMILAP_1354
BC05470	721561	WMWMILAP_1354
BC05676	721561	WMWMILAP_1354
BC05677	721561	WMWMILAP_1354
BC05678	721561	WMWMILAP_1354
BC05679	721561	WMWMILAP_1354
BC05680	721561	WMWMILAP_1354
BC05681	721561	WMWMILAP_1354
BC05682	721561	WMWMILAP_1354
BC05683	721562	WMWMILAP_1354
BC05684	721562	WMWMILAP_1354
BC05685	721562	WMWMILAP_1354
BC05686	721562	WMWMILAP_1354
BC05687	721562	WMWMILAP_1354
BC05688	721562	WMWMILAP_1354
BC05689	721562	WMWMILAP_1354
BC05690	721562	WMWMILAP_1354
BC05691	721562	WMWMILAP_1354
BC05692	721562	WMWMILAP_1354
BC05693	721563	WMWMILAP_1354
BC05694	721563	WMWMILAP_1354
BC05695	721563	WMWMILAP_1354
BC05696	721563	WMWMILAP_1354

4. All of the above samples were prepared and analyzed for NO<sub>x</sub> 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\_1354

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>
BC05057	720713	WMWMILAP_1354
BC05058	720713	WMWMILAP_1354
BC05059	720713	WMWMILAP_1354
BC05060	720713	WMWMILAP_1354
BC05061	720713	WMWMILAP_1354
BC05062	720713	WMWMILAP_1354
BC05063	720713	WMWMILAP_1354
BC05064	720713	WMWMILAP_1354
BC05065	720713	WMWMILAP_1354
BC05066	720713	WMWMILAP_1354
BC05067	720714	WMWMILAP_1354
BC05068	720714	WMWMILAP_1354
BC05069	720714	WMWMILAP_1354
BC05070	720714	WMWMILAP_1354
BC05071	720714	WMWMILAP_1354
BC05072	720714	WMWMILAP_1354
BC05073	720714	WMWMILAP_1354
BC05074	720714	WMWMILAP_1354
BC05075	720714	WMWMILAP_1354
BC05076	720714	WMWMILAP_1354
BC05077	720715	WMWMILAP_1354
BC05459	721294	WMWMILAP_1354
BC05460	721294	WMWMILAP_1354
BC05461	721294	WMWMILAP_1354
BC05462	721294	WMWMILAP_1354
BC05463	721294	WMWMILAP_1354
BC05464	721294	WMWMILAP_1354
BC05465	721294	WMWMILAP_1354
BC05466	721294	WMWMILAP_1354
BC05467	721294	WMWMILAP_1354
BC05468	721294	WMWMILAP_1354

BC05469	721295	WMWMILAP_1354
BC05470	721295	WMWMILAP_1354
BC05676	721295	WMWMILAP_1354
BC05677	721295	WMWMILAP_1354
BC05678	721295	WMWMILAP_1354
BC05679	721295	WMWMILAP_1354
BC05680	721295	WMWMILAP_1354
BC05681	721295	WMWMILAP_1354
BC05682	721295	WMWMILAP_1354
BC05683	721295	WMWMILAP_1354
BC05684	721296	WMWMILAP_1354
BC05685	721296	WMWMILAP_1354
BC05686	721296	WMWMILAP_1354
BC05687	721296	WMWMILAP_1354
BC05688	721296	WMWMILAP_1354
BC05689	721296	WMWMILAP_1354
BC05690	721296	WMWMILAP_1354
BC05691	721296	WMWMILAP_1354
BC05692	721296	WMWMILAP_1354
BC05693	721296	WMWMILAP_1354
BC05694	721297	WMWMILAP_1354
BC05695	721297	WMWMILAP_1354
BC05696	721297	WMWMILAP_1354

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-35H

**Location Code:** WMWMILAP  
**Collected:** 3/8/22 07:57  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05057

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: RDA</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	3/17/22 10:40	3/22/22 10:09		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	3/17/22 10:40	3/22/22 11:47		10.15	61.6	mg/L	0.70035	4.06	
* Iron, Total	3/17/22 10:40	3/22/22 10:09		1.015	3.03	mg/L	0.008120	0.0406	
* Lithium, Total	3/17/22 10:40	3/22/22 10:09		1.015	0.0264	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/17/22 10:40	3/22/22 10:09		1.015	34.2	mg/L	0.021315	0.406	
Silica, Total (calc.)	3/17/22 10:40	3/22/22 10:09		1	34.9	mg/L			
Silicon, Total	3/17/22 10:40	3/22/22 10:09		1.015	16.3	mg/L	0.02030	0.25375	
* Sodium, Total	3/17/22 10:40	3/22/22 10:09		1.015	26.0	mg/L	0.03045	0.406	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: RDA</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	3/17/22 14:16	3/23/22 09:49		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	3/17/22 14:16	3/23/22 11:27		10.15	65.3	mg/L	0.70035	4.06	
* Iron, Dissolved	3/17/22 14:16	3/23/22 09:49		1.015	3.04	mg/L	0.008120	0.0406	
* Lithium, Dissolved	3/17/22 14:16	3/23/22 09:49		1.015	0.0260	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	3/17/22 14:16	3/23/22 09:49		1.015	33.8	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	3/17/22 14:16	3/23/22 09:49		1	35.3	mg/L			
Silicon, Dissolved	3/17/22 14:16	3/23/22 09:49		1.015	16.5	mg/L	0.02030	0.25375	
* Sodium, Dissolved	3/17/22 14:16	3/23/22 09:49		1.015	25.7	mg/L	0.03045	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	3/11/22 11:09	3/11/22 18:46		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/11/22 11:09	3/11/22 18:46		1.015	0.00687	mg/L	0.006090	0.01015	J
* Arsenic, Total	3/11/22 11:09	3/11/22 18:46		1.015	0.0118	mg/L	0.000081	0.000203	
* Barium, Total	3/11/22 11:09	3/11/22 18:46		1.015	0.0274	mg/L	0.000102	0.000203	
* Beryllium, Total	3/11/22 11:09	3/11/22 18:46		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/11/22 11:09	3/11/22 18:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/11/22 11:09	3/11/22 18:46		1.015	0.000233	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/11/22 11:09	3/11/22 18:46		1.015	0.0000758	mg/L	0.000068	0.000203	J
* Lead, Total	3/11/22 11:09	3/11/22 18:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/11/22 11:09	3/11/22 18:46		1.015	0.259	mg/L	0.000152	0.000203	
* Molybdenum, Total	3/11/22 11:09	3/11/22 18:46		1.015	0.00121	mg/L	0.000102	0.000203	
* Potassium, Total	3/11/22 11:09	3/11/22 18:46		1.015	1.65	mg/L	0.169505	0.5075	

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-35H

**Location Code:** WMWMILAP  
**Collected:** 3/8/22 07:57  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05057

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/11/22 11:09	3/11/22 18:46		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/11/22 11:09	3/11/22 18:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	3/11/22 13:40	3/11/22 15:07		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/11/22 13:40	3/11/22 15:07		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/11/22 13:40	3/11/22 15:07		1.015	0.0117	mg/L	0.000081	0.000203	
* Barium, Dissolved	3/11/22 13:40	3/11/22 15:07		1.015	0.0276	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/11/22 13:40	3/11/22 15:07		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/11/22 13:40	3/11/22 15:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/11/22 13:40	3/11/22 15:07		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	3/11/22 13:40	3/11/22 15:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	3/11/22 13:40	3/11/22 15:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/11/22 13:40	3/11/22 15:07		1.015	0.258	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/11/22 13:40	3/11/22 15:07		1.015	0.00124	mg/L	0.000102	0.000203	
* Potassium, Dissolved	3/11/22 13:40	3/11/22 15:07		1.015	1.72	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/11/22 13:40	3/11/22 15:07		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/11/22 13:40	3/11/22 15:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	3/10/22 17:58	3/10/22 22:39		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	3/17/22 12:39	3/17/22 12:39		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity, Total as CaCO3	3/14/22 10:15	3/14/22 15:35		1	151	mg/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	3/11/22 10:40	3/14/22 13:47		1	432	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
Bicarbonate Alkalinity, (calc.)	3/14/22 10:15	3/14/22 15:35		1	150	mg/L			
Carbonate Alkalinity, (calc.)	3/14/22 10:15	3/14/22 15:35		1	0.81	mg/L			
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/15/22 16:02	3/15/22 16:02		1	Not Detected	mg/L	1.00	2	U

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-35H

**Location Code:** WMWMILAP  
**Collected:** 3/8/22 07:57  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05057

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/11/22 11:03	3/11/22 11:03		1	2.20	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 09:04	3/22/22 09:04		1	0.129	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/23/22 14:31	3/23/22 14:31		16	199	mg/L	9.6	32	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	3/8/22 07:54	3/8/22 07:54			636.49	uS/cm			FA
pH	3/8/22 07:54	3/8/22 07:54			6.77	SU			FA
Temperature	3/8/22 07:54	3/8/22 07:54			17.80	C			FA
Turbidity	3/8/22 07:54	3/8/22 07:54			0.65	NTU			FA

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/8/22 07:57  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-35H

**Laboratory ID Number:** BC05057

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BC05067	Aluminum, Dissolved	mg/L	-0.000823	0.010	0.100	0.101	0.102	0.109	0.0850 to 0.115	101	70.0 to 130	0.985	20.0	
BC05066	Aluminum, Total	mg/L	-0.000102	0.010	0.100	0.104	0.103	0.102	0.0850 to 0.115	92.3	70.0 to 130	0.966	20.0	
BC05067	Antimony, Dissolved	mg/L	0.000222	0.00100	0.100	0.0910	0.0932	0.0932	0.0850 to 0.115	91.0	70.0 to 130	2.39	20.0	
BC05066	Antimony, Total	mg/L	0.000398	0.00100	0.100	0.0972	0.0983	0.0938	0.0850 to 0.115	97.2	70.0 to 130	1.13	20.0	
BC05067	Arsenic, Dissolved	mg/L	0.0000046	0.000176	0.100	0.0968	0.0970	0.101	0.0850 to 0.115	96.0	70.0 to 130	0.206	20.0	
BC05066	Arsenic, Total	mg/L	-0.0000174	0.000176	0.100	0.0968	0.0983	0.102	0.0850 to 0.115	95.9	70.0 to 130	1.54	20.0	
BC05067	Barium, Dissolved	mg/L	0.0000160	0.000200	0.100	0.108	0.109	0.100	0.0850 to 0.115	91.4	70.0 to 130	0.922	20.0	
BC05066	Barium, Total	mg/L	-0.0000079	0.000200	0.100	0.119	0.118	0.0979	0.0850 to 0.115	94.5	70.0 to 130	0.844	20.0	
BC05067	Beryllium, Dissolved	mg/L	0.0000178	0.000880	0.100	0.0952	0.0973	0.109	0.0850 to 0.115	95.2	70.0 to 130	2.18	20.0	
BC05066	Beryllium, Total	mg/L	0.0000199	0.000880	0.100	0.0889	0.0902	0.0937	0.0850 to 0.115	88.9	70.0 to 130	1.45	20.0	
BC05067	Boron, Dissolved	mg/L	-0.000193	0.0650	1.00	1.18	1.15	1.02	0.850 to 1.15	106	70.0 to 130	2.58	20.0	
BC05066	Boron, Total	mg/L	0.000004	0.0650	1.00	1.76	1.73	0.978	0.850 to 1.15	100	70.0 to 130	1.72	20.0	
BC05067	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0928	0.0945	0.0989	0.0850 to 0.115	92.8	70.0 to 130	1.82	20.0	
BC05066	Cadmium, Total	mg/L	0.0000059	0.000147	0.100	0.0920	0.0908	0.100	0.0850 to 0.115	92.0	70.0 to 130	1.31	20.0	
BC05067	Calcium, Dissolved	mg/L	-0.0163	0.152	5.00	108	105	4.87	4.25 to 5.75	100	70.0 to 130	2.82	20.0	
BC05066	Calcium, Total	mg/L	-0.00894	0.152	5.00	200	203	4.88	4.25 to 5.75	180	70.0 to 130	1.49	20.0	
BC05066	Chloride	mg/L	-0.0169	1.00	40.0	68.2	68.4	9.80	9.00 to 11.0	102	80.0 to 120	0.293	20.0	
BC05067	Chromium, Dissolved	mg/L	-0.000106	0.000440	0.100	0.0926	0.0952	0.102	0.0850 to 0.115	92.6	70.0 to 130	2.77	20.0	
BC05066	Chromium, Total	mg/L	0.0000215	0.000440	0.100	0.0934	0.0922	0.100	0.0850 to 0.115	93.2	70.0 to 130	1.29	20.0	
BC05067	Cobalt, Dissolved	mg/L	-0.0000005	0.000147	0.100	0.0938	0.0964	0.104	0.0850 to 0.115	93.7	70.0 to 130	2.73	20.0	
BC05066	Cobalt, Total	mg/L	0.0000085	0.000147	0.100	0.0966	0.0969	0.104	0.0850 to 0.115	95.8	70.0 to 130	0.310	20.0	
BC05066	Fluoride	mg/L	-0.0438	0.125	2.50	2.90	3.03	2.69	2.25 to 2.75	103	80.0 to 120	4.38	20.0	
BC05067	Iron, Dissolved	mg/L	-0.000384	0.0176	0.2	4.29	4.21	0.199	0.170 to 0.230	135	70.0 to 130	1.88	20.0	

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/8/22 07:57  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-35H

**Laboratory ID Number:** BC05057

Sample	Analysis	Units	MB	MB		MS	MSD	Standard	Standard		Rec		Prec	Limit
				Limit	Spike				Limit	Rec	Limit	Prec		
BC05066	Iron, Total	mg/L	-0.000562	0.0176	0.2	5.00	4.90	0.199	0.170 to 0.230	150	70.0 to 130	2.02	20.0	
BC05067	Lead, Dissolved	mg/L	0.0000104	0.000147	0.100	0.0956	0.0979	0.101	0.0850 to 0.115	95.6	70.0 to 130	2.38	20.0	
BC05066	Lead, Total	mg/L	0.0000118	0.000147	0.100	0.0984	0.0974	0.0985	0.0850 to 0.115	98.4	70.0 to 130	1.02	20.0	
BC05067	Lithium, Dissolved	mg/L	-0.000318	0.0154	0.200	0.238	0.238	0.200	0.170 to 0.230	99.2	70.0 to 130	0.00	20.0	
BC05066	Lithium, Total	mg/L	-0.000138	0.0154	0.200	0.424	0.419	0.201	0.170 to 0.230	104	70.0 to 130	1.19	20.0	
BC05067	Magnesium, Dissolved	mg/L	-0.00178	0.0462	5.00	57.1	55.9	5.10	4.25 to 5.75	86.0	70.0 to 130	2.12	20.0	
BC05066	Magnesium, Total	mg/L	0.00188	0.0462	5.00	49.6	48.2	5.16	4.25 to 5.75	116	70.0 to 130	2.86	20.0	
BC05067	Manganese, Dissolved	mg/L	0.0000035	0.0002	0.100	0.584	0.591	0.104	0.0850 to 0.115	67.0	70.0 to 130	1.19	20.0	
BC05066	Manganese, Total	mg/L	-0.0000019	0.0002	0.100	1.25	1.26	0.101	0.0850 to 0.115	70.0	70.0 to 130	0.797	20.0	
BC05066	Mercury, Total by CVAA	mg/L	-3.000E-05	0.000500	0.004	0.00402	0.00405	0.0038	0.00340 to 0.00460	100	70.0 to 130	0.743	20.0	
BC05067	Molybdenum, Dissolved	mg/L	0.0000115	0.0002	0.100	0.0924	0.0981	0.0998	0.0850 to 0.115	92.2	70.0 to 130	5.98	20.0	
BC05066	Molybdenum, Total	mg/L	0.0000253	0.0002	0.100	0.153	0.159	0.0993	0.0850 to 0.115	90.9	70.0 to 130	3.85	20.0	
BC05067	Potassium, Dissolved	mg/L	0.0220	0.367	10.0	12.3	12.6	10.7	8.50 to 11.5	99.0	70.0 to 130	2.41	20.0	
BC05066	Potassium, Total	mg/L	0.0236	0.367	10.0	13.9	14.0	9.94	8.50 to 11.5	91.4	70.0 to 130	0.717	20.0	
BC05067	Selenium, Dissolved	mg/L	0.0000682	0.00100	0.100	0.0957	0.0996	0.102	0.0850 to 0.115	95.7	70.0 to 130	3.99	20.0	
BC05066	Selenium, Total	mg/L	-0.000353	0.00100	0.100	0.0949	0.0968	0.103	0.0850 to 0.115	94.9	70.0 to 130	1.98	20.0	
BC05067	Silicon, Dissolved	mg/L	-0.000427	0.0440	1.00	14.8	14.7	1.02	0.850 to 1.15	120	70.0 to 130	0.678	20.0	
BC05066	Silicon, Total	mg/L	0.00024	0.0440	1.00	5.87	5.77	1.01	0.850 to 1.15	93.0	70.0 to 130	1.72	20.0	
BC05067	Sodium, Dissolved	mg/L	0.000048	0.0660	5.00	35.6	36.0	5.02	4.25 to 5.75	92.0	70.0 to 130	1.12	20.0	
BC05066	Sodium, Total	mg/L	0.000363	0.0660	5.00	107	102	5.04	4.25 to 5.75	100	70.0 to 130	4.78	20.0	
BC05066	Sulfate	mg/L	0.285	2.0	1000	1820	1800	20.0	18.0 to 22.0	104	80.0 to 120	1.10	20.0	
BC05067	Thallium, Dissolved	mg/L	0.0000019	0.000147	0.100	0.0980	0.0998	0.100	0.0850 to 0.115	98.0	70.0 to 130	1.82	20.0	

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/8/22 07:57  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-35H

**Laboratory ID Number:** BC05057

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05066	Thallium, Total	mg/L	0.0000115	0.000147	0.100	0.0979	0.0986	0.0978	0.0850 to 0.115	97.9	70.0 to 130	0.712	20.0
BC05066	Total Organic Carbon	mg/L	0.320	1.00	10.0	11.8	11.7	9.88		101	80.0 to 120	0.851	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

## Batch QC Summary

**Customer Account:** WMWMILAP

**Sample Date:** 3/8/22 07:57

**Customer ID:**

**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-35H

**Laboratory ID Number:** BC05057

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05077	Alkalinity, Total as CaCO3	mg/L					499	50.9	45.0 to 55.0			7.27	10.0
BC05066	Nitrogen, Nitrate/Nitrite	mg/L as N	0.07	0.200	2.00	2.06	0.087	1.88	1.80 to 2.20	103	90.0 to 110	0.00	15.0
BC05066	Solids, Dissolved	mg/L	0.0000	25.0			1090	50.0	40.0 to 60.0			2.71	10.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-17H

**Location Code:** WMWMILAP  
**Collected:** 3/8/22 09:14  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05058

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: RDA</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	3/17/22 10:40	3/22/22 10:11		1.015	0.0797	mg/L	0.030000	0.1015	J
* Calcium, Total	3/17/22 10:40	3/22/22 11:48		10.15	41.7	mg/L	0.70035	4.06	
* Iron, Total	3/17/22 10:40	3/22/22 10:11		1.015	0.835	mg/L	0.008120	0.0406	
* Lithium, Total	3/17/22 10:40	3/22/22 10:11		1.015	0.0644	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/17/22 10:40	3/22/22 10:11		1.015	15.8	mg/L	0.021315	0.406	
Silica, Total (calc.)	3/17/22 10:40	3/22/22 10:11		1	29.1	mg/L			
Silicon, Total	3/17/22 10:40	3/22/22 10:11		1.015	13.6	mg/L	0.02030	0.25375	
* Sodium, Total	3/17/22 10:40	3/22/22 11:48		10.15	96.2	mg/L	0.3045	4.06	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: RDA</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	3/17/22 14:16	3/23/22 09:51		1.015	0.0809	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	3/17/22 14:16	3/23/22 11:29		10.15	45.0	mg/L	0.70035	4.06	
* Iron, Dissolved	3/17/22 14:16	3/23/22 09:51		1.015	0.728	mg/L	0.008120	0.0406	
* Lithium, Dissolved	3/17/22 14:16	3/23/22 09:51		1.015	0.0653	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	3/17/22 14:16	3/23/22 09:51		1.015	15.9	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	3/17/22 14:16	3/23/22 09:51		1	28.7	mg/L			
Silicon, Dissolved	3/17/22 14:16	3/23/22 09:51		1.015	13.4	mg/L	0.02030	0.25375	
* Sodium, Dissolved	3/17/22 14:16	3/23/22 11:29		10.15	98.3	mg/L	0.3045	4.06	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	3/11/22 11:09	3/11/22 18:50		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/11/22 11:09	3/11/22 18:50		1.015	0.0139	mg/L	0.006090	0.01015	
* Arsenic, Total	3/11/22 11:09	3/11/22 18:50		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	3/11/22 11:09	3/11/22 18:50		1.015	0.622	mg/L	0.000102	0.000203	
* Beryllium, Total	3/11/22 11:09	3/11/22 18:50		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/11/22 11:09	3/11/22 18:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/11/22 11:09	3/11/22 18:50		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	3/11/22 11:09	3/11/22 18:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	3/11/22 11:09	3/11/22 18:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/11/22 11:09	3/11/22 18:50		1.015	0.0649	mg/L	0.000152	0.000203	
* Molybdenum, Total	3/11/22 11:09	3/11/22 18:50		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	3/11/22 11:09	3/11/22 18:50		1.015	1.44	mg/L	0.169505	0.5075	

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.



# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-17H

**Location Code:** WMWMILAP  
**Collected:** 3/8/22 09:14  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05058

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/11/22 11:09	3/11/22 18:50		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/11/22 11:09	3/11/22 18:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	3/11/22 13:40	3/11/22 15:11		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/11/22 13:40	3/11/22 15:11		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/11/22 13:40	3/11/22 15:11		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Dissolved	3/11/22 13:40	3/11/22 15:11		1.015	0.614	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/11/22 13:40	3/11/22 15:11		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/11/22 13:40	3/11/22 15:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/11/22 13:40	3/11/22 15:11		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	3/11/22 13:40	3/11/22 15:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	3/11/22 13:40	3/11/22 15:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/11/22 13:40	3/11/22 15:11		1.015	0.0609	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/11/22 13:40	3/11/22 15:11		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	3/11/22 13:40	3/11/22 15:11		1.015	1.50	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/11/22 13:40	3/11/22 15:11		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/11/22 13:40	3/11/22 15:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	3/10/22 17:58	3/10/22 22:43		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	3/17/22 12:41	3/17/22 12:41		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity, Total as CaCO3	3/14/22 10:15	3/14/22 15:35		1	307	mg/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	3/11/22 10:40	3/14/22 13:47		1	376	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
Bicarbonate Alkalinity, (calc.)	3/14/22 10:15	3/14/22 15:35		1	306	mg/L			
Carbonate Alkalinity, (calc.)	3/14/22 10:15	3/14/22 15:35		1	1.44	mg/L			
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/15/22 16:22	3/15/22 16:22		1	1.18	mg/L	1.00	2	J

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-17H

**Location Code:** WMWMILAP  
**Collected:** 3/8/22 09:14  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05058

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/11/22 11:04	3/11/22 11:04		1	6.06	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 09:05	3/22/22 09:05		1	0.158	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/23/22 14:33	3/23/22 14:33		2	62.1	mg/L	1.2	4	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	3/8/22 09:11	3/8/22 09:11			632.18	uS/cm			FA
pH	3/8/22 09:11	3/8/22 09:11			7.07	SU			FA
Temperature	3/8/22 09:11	3/8/22 09:11			16.22	C			FA
Turbidity	3/8/22 09:11	3/8/22 09:11			1.89	NTU			FA

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/8/22 09:14  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-17H

**Laboratory ID Number:** BC05058

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05067	Aluminum, Dissolved	mg/L	-0.000823	0.010	0.100	0.101	0.102	0.109	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC05066	Aluminum, Total	mg/L	-0.000102	0.010	0.100	0.104	0.103	0.102	0.0850 to 0.115	92.3	70.0 to 130	0.966	20.0
BC05067	Antimony, Dissolved	mg/L	0.000222	0.00100	0.100	0.0910	0.0932	0.0932	0.0850 to 0.115	91.0	70.0 to 130	2.39	20.0
BC05066	Antimony, Total	mg/L	0.000398	0.00100	0.100	0.0972	0.0983	0.0938	0.0850 to 0.115	97.2	70.0 to 130	1.13	20.0
BC05067	Arsenic, Dissolved	mg/L	0.0000046	0.000176	0.100	0.0968	0.0970	0.101	0.0850 to 0.115	96.0	70.0 to 130	0.206	20.0
BC05066	Arsenic, Total	mg/L	-0.0000174	0.000176	0.100	0.0968	0.0983	0.102	0.0850 to 0.115	95.9	70.0 to 130	1.54	20.0
BC05067	Barium, Dissolved	mg/L	0.0000160	0.000200	0.100	0.108	0.109	0.100	0.0850 to 0.115	91.4	70.0 to 130	0.922	20.0
BC05066	Barium, Total	mg/L	-0.0000079	0.000200	0.100	0.119	0.118	0.0979	0.0850 to 0.115	94.5	70.0 to 130	0.844	20.0
BC05067	Beryllium, Dissolved	mg/L	0.0000178	0.000880	0.100	0.0952	0.0973	0.109	0.0850 to 0.115	95.2	70.0 to 130	2.18	20.0
BC05066	Beryllium, Total	mg/L	0.0000199	0.000880	0.100	0.0889	0.0902	0.0937	0.0850 to 0.115	88.9	70.0 to 130	1.45	20.0
BC05067	Boron, Dissolved	mg/L	-0.000193	0.0650	1.00	1.18	1.15	1.02	0.850 to 1.15	106	70.0 to 130	2.58	20.0
BC05066	Boron, Total	mg/L	0.000004	0.0650	1.00	1.76	1.73	0.978	0.850 to 1.15	100	70.0 to 130	1.72	20.0
BC05067	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0928	0.0945	0.0989	0.0850 to 0.115	92.8	70.0 to 130	1.82	20.0
BC05066	Cadmium, Total	mg/L	0.0000059	0.000147	0.100	0.0920	0.0908	0.100	0.0850 to 0.115	92.0	70.0 to 130	1.31	20.0
BC05067	Calcium, Dissolved	mg/L	-0.0163	0.152	5.00	108	105	4.87	4.25 to 5.75	100	70.0 to 130	2.82	20.0
BC05066	Calcium, Total	mg/L	-0.00894	0.152	5.00	200	203	4.88	4.25 to 5.75	180	70.0 to 130	1.49	20.0
BC05066	Chloride	mg/L	-0.0169	1.00	40.0	68.2	68.4	9.80	9.00 to 11.0	102	80.0 to 120	0.293	20.0
BC05067	Chromium, Dissolved	mg/L	-0.000106	0.000440	0.100	0.0926	0.0952	0.102	0.0850 to 0.115	92.6	70.0 to 130	2.77	20.0
BC05066	Chromium, Total	mg/L	0.0000215	0.000440	0.100	0.0934	0.0922	0.100	0.0850 to 0.115	93.2	70.0 to 130	1.29	20.0
BC05067	Cobalt, Dissolved	mg/L	-0.0000005	0.000147	0.100	0.0938	0.0964	0.104	0.0850 to 0.115	93.7	70.0 to 130	2.73	20.0
BC05066	Cobalt, Total	mg/L	0.0000085	0.000147	0.100	0.0966	0.0969	0.104	0.0850 to 0.115	95.8	70.0 to 130	0.310	20.0
BC05066	Fluoride	mg/L	-0.0438	0.125	2.50	2.90	3.03	2.69	2.25 to 2.75	103	80.0 to 120	4.38	20.0
BC05067	Iron, Dissolved	mg/L	-0.000384	0.0176	0.2	4.29	4.21	0.199	0.170 to 0.230	135	70.0 to 130	1.88	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/8/22 09:14  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-17H

**Laboratory ID Number:** BC05058

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05066	Iron, Total	mg/L	-0.000562	0.0176	0.2	5.00	4.90	0.199	0.170 to 0.230	150	70.0 to 130	2.02	20.0
BC05067	Lead, Dissolved	mg/L	0.0000104	0.000147	0.100	0.0956	0.0979	0.101	0.0850 to 0.115	95.6	70.0 to 130	2.38	20.0
BC05066	Lead, Total	mg/L	0.0000118	0.000147	0.100	0.0984	0.0974	0.0985	0.0850 to 0.115	98.4	70.0 to 130	1.02	20.0
BC05067	Lithium, Dissolved	mg/L	-0.000318	0.0154	0.200	0.238	0.238	0.200	0.170 to 0.230	99.2	70.0 to 130	0.00	20.0
BC05066	Lithium, Total	mg/L	-0.000138	0.0154	0.200	0.424	0.419	0.201	0.170 to 0.230	104	70.0 to 130	1.19	20.0
BC05067	Magnesium, Dissolved	mg/L	-0.00178	0.0462	5.00	57.1	55.9	5.10	4.25 to 5.75	86.0	70.0 to 130	2.12	20.0
BC05066	Magnesium, Total	mg/L	0.00188	0.0462	5.00	49.6	48.2	5.16	4.25 to 5.75	116	70.0 to 130	2.86	20.0
BC05067	Manganese, Dissolved	mg/L	0.0000035	0.0002	0.100	0.584	0.591	0.104	0.0850 to 0.115	67.0	70.0 to 130	1.19	20.0
BC05066	Manganese, Total	mg/L	-0.0000019	0.0002	0.100	1.25	1.26	0.101	0.0850 to 0.115	70.0	70.0 to 130	0.797	20.0
BC05066	Mercury, Total by CVAA	mg/L	-3.000E-05	0.000500	0.004	0.00402	0.00405	0.0038	0.00340 to 0.00460	100	70.0 to 130	0.743	20.0
BC05067	Molybdenum, Dissolved	mg/L	0.0000115	0.0002	0.100	0.0924	0.0981	0.0998	0.0850 to 0.115	92.2	70.0 to 130	5.98	20.0
BC05066	Molybdenum, Total	mg/L	0.0000253	0.0002	0.100	0.153	0.159	0.0993	0.0850 to 0.115	90.9	70.0 to 130	3.85	20.0
BC05067	Potassium, Dissolved	mg/L	0.0220	0.367	10.0	12.3	12.6	10.7	8.50 to 11.5	99.0	70.0 to 130	2.41	20.0
BC05066	Potassium, Total	mg/L	0.0236	0.367	10.0	13.9	14.0	9.94	8.50 to 11.5	91.4	70.0 to 130	0.717	20.0
BC05067	Selenium, Dissolved	mg/L	0.0000682	0.00100	0.100	0.0957	0.0996	0.102	0.0850 to 0.115	95.7	70.0 to 130	3.99	20.0
BC05066	Selenium, Total	mg/L	-0.000353	0.00100	0.100	0.0949	0.0968	0.103	0.0850 to 0.115	94.9	70.0 to 130	1.98	20.0
BC05067	Silicon, Dissolved	mg/L	-0.000427	0.0440	1.00	14.8	14.7	1.02	0.850 to 1.15	120	70.0 to 130	0.678	20.0
BC05066	Silicon, Total	mg/L	0.00024	0.0440	1.00	5.87	5.77	1.01	0.850 to 1.15	93.0	70.0 to 130	1.72	20.0
BC05067	Sodium, Dissolved	mg/L	0.000048	0.0660	5.00	35.6	36.0	5.02	4.25 to 5.75	92.0	70.0 to 130	1.12	20.0
BC05066	Sodium, Total	mg/L	0.000363	0.0660	5.00	107	102	5.04	4.25 to 5.75	100	70.0 to 130	4.78	20.0
BC05066	Sulfate	mg/L	0.285	2.0	1000	1820	1800	20.0	18.0 to 22.0	104	80.0 to 120	1.10	20.0
BC05067	Thallium, Dissolved	mg/L	0.0000019	0.000147	0.100	0.0980	0.0998	0.100	0.0850 to 0.115	98.0	70.0 to 130	1.82	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/8/22 09:14  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-17H

**Laboratory ID Number:** BC05058

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05066	Thallium, Total	mg/L	0.0000115	0.000147	0.100	0.0979	0.0986	0.0978	0.0850 to 0.115	97.9	70.0 to 130	0.712	20.0
BC05066	Total Organic Carbon	mg/L	0.320	1.00	10.0	11.8	11.7	9.88		101	80.0 to 120	0.851	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

## Batch QC Summary

**Customer Account:** WMWMILAP

**Sample Date:** 3/8/22 09:14

**Customer ID:**

**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-17H

**Laboratory ID Number:** BC05058

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05077	Alkalinity, Total as CaCO3	mg/L					499	50.9	45.0 to 55.0			7.27	10.0
BC05066	Nitrogen, Nitrate/Nitrite	mg/L as N	0.07	0.200	2.00	2.06	0.087	1.88	1.80 to 2.20	103	90.0 to 110	0.00	15.0
BC05066	Solids, Dissolved	mg/L	0.0000	25.0			1090	50.0	40.0 to 60.0			2.71	10.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-18H

**Location Code:** WMWMILAP  
**Collected:** 3/8/22 10:38  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05059

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	3/17/22 10:40	3/22/22 10:13		1.015	0.194	mg/L	0.030000	0.1015	
* Calcium, Total	3/17/22 10:40	3/22/22 10:13		1.015	3.72	mg/L	0.070035	0.406	
* Iron, Total	3/17/22 10:40	3/22/22 10:13		1.015	0.356	mg/L	0.008120	0.0406	
* Lithium, Total	3/17/22 10:40	3/22/22 10:13		1.015	0.0926	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/17/22 10:40	3/22/22 10:13		1.015	1.61	mg/L	0.021315	0.406	
Silica, Total (calc.)	3/17/22 10:40	3/22/22 10:13		1	10.3	mg/L			
Silicon, Total	3/17/22 10:40	3/22/22 10:13		1.015	4.79	mg/L	0.02030	0.25375	
* Sodium, Total	3/17/22 10:40	3/22/22 11:50		10.15	147	mg/L	0.3045	4.06	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	3/17/22 14:16	3/23/22 09:53		1.015	0.193	mg/L	0.030000	0.1015	
* Calcium, Dissolved	3/17/22 14:16	3/23/22 09:53		1.015	3.77	mg/L	0.070035	0.406	
* Iron, Dissolved	3/17/22 14:16	3/23/22 09:53		1.015	0.175	mg/L	0.008120	0.0406	
* Lithium, Dissolved	3/17/22 14:16	3/23/22 09:53		1.015	0.0899	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	3/17/22 14:16	3/23/22 09:53		1.015	1.59	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	3/17/22 14:16	3/23/22 09:53		1	10.2	mg/L			
Silicon, Dissolved	3/17/22 14:16	3/23/22 09:53		1.015	4.76	mg/L	0.02030	0.25375	
* Sodium, Dissolved	3/17/22 14:16	3/23/22 11:31		10.15	153	mg/L	0.3045	4.06	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	3/11/22 11:09	3/11/22 18:53		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/11/22 11:09	3/11/22 18:53		1.015	0.0247	mg/L	0.006090	0.01015	
* Arsenic, Total	3/11/22 11:09	3/11/22 18:53		1.015	0.000276	mg/L	0.000081	0.000203	
* Barium, Total	3/11/22 11:09	3/11/22 18:53		1.015	0.0258	mg/L	0.000102	0.000203	
* Beryllium, Total	3/11/22 11:09	3/11/22 18:53		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/11/22 11:09	3/11/22 18:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/11/22 11:09	3/11/22 18:53		1.015	0.000226	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/11/22 11:09	3/11/22 18:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	3/11/22 11:09	3/11/22 18:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/11/22 11:09	3/11/22 18:53		1.015	0.0196	mg/L	0.000152	0.000203	
* Molybdenum, Total	3/11/22 11:09	3/11/22 18:53		1.015	0.0104	mg/L	0.000102	0.000203	
* Potassium, Total	3/11/22 11:09	3/11/22 18:53		1.015	0.837	mg/L	0.169505	0.5075	

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-18H

**Location Code:** WMWMILAP  
**Collected:** 3/8/22 10:38  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05059

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/11/22 11:09	3/11/22 18:53		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/11/22 11:09	3/11/22 18:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	3/11/22 13:40	3/11/22 15:15		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/11/22 13:40	3/11/22 15:15		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/11/22 13:40	3/11/22 15:15		1.015	0.000244	mg/L	0.000081	0.000203	
* Barium, Dissolved	3/11/22 13:40	3/11/22 15:15		1.015	0.0245	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/11/22 13:40	3/11/22 15:15		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/11/22 13:40	3/11/22 15:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/11/22 13:40	3/11/22 15:15		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	3/11/22 13:40	3/11/22 15:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	3/11/22 13:40	3/11/22 15:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/11/22 13:40	3/11/22 15:15		1.015	0.0192	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/11/22 13:40	3/11/22 15:15		1.015	0.0106	mg/L	0.000102	0.000203	
* Potassium, Dissolved	3/11/22 13:40	3/11/22 15:15		1.015	0.908	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/11/22 13:40	3/11/22 15:15		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/11/22 13:40	3/11/22 15:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	3/10/22 17:58	3/10/22 22:47		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	3/17/22 12:43	3/17/22 12:43		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity, Total as CaCO3	3/14/22 10:15	3/14/22 15:35		1	189	mg/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	3/11/22 10:40	3/14/22 13:47		1	360	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
Bicarbonate Alkalinity, (calc.)	3/14/22 10:15	3/14/22 15:35		1	187	mg/L			
Carbonate Alkalinity, (calc.)	3/14/22 10:15	3/14/22 15:35		1	1.93	mg/L			
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/15/22 16:40	3/15/22 16:40		1	1.87	mg/L	1.00	2	J

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.



# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-18H

**Location Code:** WMWMILAP  
**Collected:** 3/8/22 10:38  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05059

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/11/22 11:05	3/11/22 11:05		1	5.42	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 09:06	3/22/22 09:06		1	0.294	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/23/22 14:34	3/23/22 14:34		8	125	mg/L	4.8	16	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	3/8/22 10:35	3/8/22 10:35			618.64	uS/cm			FA
pH	3/8/22 10:35	3/8/22 10:35			7.50	SU			FA
Temperature	3/8/22 10:35	3/8/22 10:35			14.42	C			FA
Turbidity	3/8/22 10:35	3/8/22 10:35			0.47	NTU			FA

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/8/22 10:38  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-18H

**Laboratory ID Number:** BC05059

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC05067	Aluminum, Dissolved	mg/L	-0.000823	0.010	0.100	0.101	0.102	0.109	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC05066	Aluminum, Total	mg/L	-0.000102	0.010	0.100	0.104	0.103	0.102	0.0850 to 0.115	92.3	70.0 to 130	0.966	20.0
BC05067	Antimony, Dissolved	mg/L	0.000222	0.00100	0.100	0.0910	0.0932	0.0932	0.0850 to 0.115	91.0	70.0 to 130	2.39	20.0
BC05066	Antimony, Total	mg/L	0.000398	0.00100	0.100	0.0972	0.0983	0.0938	0.0850 to 0.115	97.2	70.0 to 130	1.13	20.0
BC05067	Arsenic, Dissolved	mg/L	0.0000046	0.000176	0.100	0.0968	0.0970	0.101	0.0850 to 0.115	96.0	70.0 to 130	0.206	20.0
BC05066	Arsenic, Total	mg/L	-0.0000174	0.000176	0.100	0.0968	0.0983	0.102	0.0850 to 0.115	95.9	70.0 to 130	1.54	20.0
BC05067	Barium, Dissolved	mg/L	0.0000160	0.000200	0.100	0.108	0.109	0.100	0.0850 to 0.115	91.4	70.0 to 130	0.922	20.0
BC05066	Barium, Total	mg/L	-0.0000079	0.000200	0.100	0.119	0.118	0.0979	0.0850 to 0.115	94.5	70.0 to 130	0.844	20.0
BC05067	Beryllium, Dissolved	mg/L	0.0000178	0.000880	0.100	0.0952	0.0973	0.109	0.0850 to 0.115	95.2	70.0 to 130	2.18	20.0
BC05066	Beryllium, Total	mg/L	0.0000199	0.000880	0.100	0.0889	0.0902	0.0937	0.0850 to 0.115	88.9	70.0 to 130	1.45	20.0
BC05067	Boron, Dissolved	mg/L	-0.000193	0.0650	1.00	1.18	1.15	1.02	0.850 to 1.15	106	70.0 to 130	2.58	20.0
BC05066	Boron, Total	mg/L	0.000004	0.0650	1.00	1.76	1.73	0.978	0.850 to 1.15	100	70.0 to 130	1.72	20.0
BC05067	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0928	0.0945	0.0989	0.0850 to 0.115	92.8	70.0 to 130	1.82	20.0
BC05066	Cadmium, Total	mg/L	0.0000059	0.000147	0.100	0.0920	0.0908	0.100	0.0850 to 0.115	92.0	70.0 to 130	1.31	20.0
BC05067	Calcium, Dissolved	mg/L	-0.0163	0.152	5.00	108	105	4.87	4.25 to 5.75	100	70.0 to 130	2.82	20.0
BC05066	Calcium, Total	mg/L	-0.00894	0.152	5.00	200	203	4.88	4.25 to 5.75	180	70.0 to 130	1.49	20.0
BC05066	Chloride	mg/L	-0.0169	1.00	40.0	68.2	68.4	9.80	9.00 to 11.0	102	80.0 to 120	0.293	20.0
BC05067	Chromium, Dissolved	mg/L	-0.000106	0.000440	0.100	0.0926	0.0952	0.102	0.0850 to 0.115	92.6	70.0 to 130	2.77	20.0
BC05066	Chromium, Total	mg/L	0.0000215	0.000440	0.100	0.0934	0.0922	0.100	0.0850 to 0.115	93.2	70.0 to 130	1.29	20.0
BC05067	Cobalt, Dissolved	mg/L	-0.0000005	0.000147	0.100	0.0938	0.0964	0.104	0.0850 to 0.115	93.7	70.0 to 130	2.73	20.0
BC05066	Cobalt, Total	mg/L	0.0000085	0.000147	0.100	0.0966	0.0969	0.104	0.0850 to 0.115	95.8	70.0 to 130	0.310	20.0
BC05066	Fluoride	mg/L	-0.0438	0.125	2.50	2.90	3.03	2.69	2.25 to 2.75	103	80.0 to 120	4.38	20.0
BC05067	Iron, Dissolved	mg/L	-0.000384	0.0176	0.2	4.29	4.21	0.199	0.170 to 0.230	135	70.0 to 130	1.88	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/8/22 10:38  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-18H

**Laboratory ID Number:** BC05059

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05066	Iron, Total	mg/L	-0.000562	0.0176	0.2	5.00	4.90	0.199	0.170 to 0.230	150	70.0 to 130	2.02	20.0
BC05067	Lead, Dissolved	mg/L	0.0000104	0.000147	0.100	0.0956	0.0979	0.101	0.0850 to 0.115	95.6	70.0 to 130	2.38	20.0
BC05066	Lead, Total	mg/L	0.0000118	0.000147	0.100	0.0984	0.0974	0.0985	0.0850 to 0.115	98.4	70.0 to 130	1.02	20.0
BC05067	Lithium, Dissolved	mg/L	-0.000318	0.0154	0.200	0.238	0.238	0.200	0.170 to 0.230	99.2	70.0 to 130	0.00	20.0
BC05066	Lithium, Total	mg/L	-0.000138	0.0154	0.200	0.424	0.419	0.201	0.170 to 0.230	104	70.0 to 130	1.19	20.0
BC05067	Magnesium, Dissolved	mg/L	-0.00178	0.0462	5.00	57.1	55.9	5.10	4.25 to 5.75	86.0	70.0 to 130	2.12	20.0
BC05066	Magnesium, Total	mg/L	0.00188	0.0462	5.00	49.6	48.2	5.16	4.25 to 5.75	116	70.0 to 130	2.86	20.0
BC05067	Manganese, Dissolved	mg/L	0.0000035	0.0002	0.100	0.584	0.591	0.104	0.0850 to 0.115	67.0	70.0 to 130	1.19	20.0
BC05066	Manganese, Total	mg/L	-0.0000019	0.0002	0.100	1.25	1.26	0.101	0.0850 to 0.115	70.0	70.0 to 130	0.797	20.0
BC05066	Mercury, Total by CVAA	mg/L	-3.000E-05	0.000500	0.004	0.00402	0.00405	0.0038	0.00340 to 0.00460	100	70.0 to 130	0.743	20.0
BC05067	Molybdenum, Dissolved	mg/L	0.0000115	0.0002	0.100	0.0924	0.0981	0.0998	0.0850 to 0.115	92.2	70.0 to 130	5.98	20.0
BC05066	Molybdenum, Total	mg/L	0.0000253	0.0002	0.100	0.153	0.159	0.0993	0.0850 to 0.115	90.9	70.0 to 130	3.85	20.0
BC05067	Potassium, Dissolved	mg/L	0.0220	0.367	10.0	12.3	12.6	10.7	8.50 to 11.5	99.0	70.0 to 130	2.41	20.0
BC05066	Potassium, Total	mg/L	0.0236	0.367	10.0	13.9	14.0	9.94	8.50 to 11.5	91.4	70.0 to 130	0.717	20.0
BC05067	Selenium, Dissolved	mg/L	0.0000682	0.00100	0.100	0.0957	0.0996	0.102	0.0850 to 0.115	95.7	70.0 to 130	3.99	20.0
BC05066	Selenium, Total	mg/L	-0.000353	0.00100	0.100	0.0949	0.0968	0.103	0.0850 to 0.115	94.9	70.0 to 130	1.98	20.0
BC05067	Silicon, Dissolved	mg/L	-0.000427	0.0440	1.00	14.8	14.7	1.02	0.850 to 1.15	120	70.0 to 130	0.678	20.0
BC05066	Silicon, Total	mg/L	0.00024	0.0440	1.00	5.87	5.77	1.01	0.850 to 1.15	93.0	70.0 to 130	1.72	20.0
BC05067	Sodium, Dissolved	mg/L	0.000048	0.0660	5.00	35.6	36.0	5.02	4.25 to 5.75	92.0	70.0 to 130	1.12	20.0
BC05066	Sodium, Total	mg/L	0.000363	0.0660	5.00	107	102	5.04	4.25 to 5.75	100	70.0 to 130	4.78	20.0
BC05066	Sulfate	mg/L	0.285	2.0	1000	1820	1800	20.0	18.0 to 22.0	104	80.0 to 120	1.10	20.0
BC05067	Thallium, Dissolved	mg/L	0.0000019	0.000147	0.100	0.0980	0.0998	0.100	0.0850 to 0.115	98.0	70.0 to 130	1.82	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/8/22 10:38  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-18H

**Laboratory ID Number:** BC05059

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05066	Thallium, Total	mg/L	0.0000115	0.000147	0.100	0.0979	0.0986	0.0978	0.0850 to 0.115	97.9	70.0 to 130	0.712	20.0
BC05066	Total Organic Carbon	mg/L	0.320	1.00	10.0	11.8	11.7	9.88		101	80.0 to 120	0.851	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

## Batch QC Summary

**Customer Account:** WMWMILAP

**Sample Date:** 3/8/22 10:38

**Customer ID:**

**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-18H

**Laboratory ID Number:** BC05059

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05077	Alkalinity, Total as CaCO3	mg/L					499	50.9	45.0 to 55.0			7.27	10.0
BC05066	Nitrogen, Nitrate/Nitrite	mg/L as N	0.07	0.200	2.00	2.06	0.087	1.88	1.80 to 2.20	103	90.0 to 110	0.00	15.0
BC05066	Solids, Dissolved	mg/L	0.0000	25.0			1090	50.0	40.0 to 60.0			2.71	10.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-7SR

**Location Code:** WMWMILAP  
**Collected:** 3/8/22 12:48  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05060

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	3/17/22 10:40	3/22/22 10:15		1.015	0.711	mg/L	0.030000	0.1015	
* Calcium, Total	3/17/22 10:40	3/22/22 11:52		10.15	91.2	mg/L	0.70035	4.06	
* Iron, Total	3/17/22 10:40	3/22/22 11:52		10.15	6.96	mg/L	0.08120	0.406	
* Lithium, Total	3/17/22 10:40	3/22/22 10:15		1.015	0.139	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/17/22 10:40	3/22/22 10:15		1.015	38.0	mg/L	0.021315	0.406	
Silica, Total (calc.)	3/17/22 10:40	3/22/22 10:15		1	21.3	mg/L			
Silicon, Total	3/17/22 10:40	3/22/22 10:15		1.015	9.95	mg/L	0.02030	0.25375	
* Sodium, Total	3/17/22 10:40	3/22/22 11:52		10.15	59.6	mg/L	0.3045	4.06	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	3/17/22 14:16	3/23/22 09:55		1.015	0.700	mg/L	0.030000	0.1015	
* Calcium, Dissolved	3/17/22 14:16	3/23/22 11:33		10.15	93.3	mg/L	0.70035	4.06	
* Iron, Dissolved	3/17/22 14:16	3/23/22 11:33		10.15	6.85	mg/L	0.08120	0.406	
* Lithium, Dissolved	3/17/22 14:16	3/23/22 09:55		1.015	0.136	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	3/17/22 14:16	3/23/22 09:55		1.015	37.3	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	3/17/22 14:16	3/23/22 09:55		1	20.9	mg/L			
Silicon, Dissolved	3/17/22 14:16	3/23/22 09:55		1.015	9.78	mg/L	0.02030	0.25375	
* Sodium, Dissolved	3/17/22 14:16	3/23/22 11:33		10.15	59.2	mg/L	0.3045	4.06	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	3/11/22 11:09	3/11/22 18:57		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/11/22 11:09	3/11/22 18:57		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	3/11/22 11:09	3/11/22 18:57		1.015	0.00177	mg/L	0.000081	0.000203	
* Barium, Total	3/11/22 11:09	3/11/22 18:57		1.015	0.0403	mg/L	0.000102	0.000203	
* Beryllium, Total	3/11/22 11:09	3/11/22 18:57		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/11/22 11:09	3/11/22 18:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/11/22 11:09	3/11/22 18:57		1.015	0.000230	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/11/22 11:09	3/11/22 18:57		1.015	0.000670	mg/L	0.000068	0.000203	
* Lead, Total	3/11/22 11:09	3/11/22 18:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/11/22 11:09	3/15/22 16:31		5.075	1.45	mg/L	0.000761	0.001015	
* Molybdenum, Total	3/11/22 11:09	3/11/22 18:57		1.015	0.0333	mg/L	0.000102	0.000203	
* Potassium, Total	3/11/22 11:09	3/11/22 18:57		1.015	2.98	mg/L	0.169505	0.5075	

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-7SR

**Location Code:** WMWMILAP  
**Collected:** 3/8/22 12:48  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05060

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/11/22 11:09	3/11/22 18:57		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/11/22 11:09	3/11/22 18:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	3/11/22 13:40	3/11/22 15:18		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/11/22 13:40	3/11/22 15:18		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/11/22 13:40	3/11/22 15:18		1.015	0.00174	mg/L	0.000081	0.000203	
* Barium, Dissolved	3/11/22 13:40	3/11/22 15:18		1.015	0.0403	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/11/22 13:40	3/11/22 15:18		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/11/22 13:40	3/11/22 15:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/11/22 13:40	3/11/22 15:18		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	3/11/22 13:40	3/11/22 15:18		1.015	0.000710	mg/L	0.000068	0.000203	
* Lead, Dissolved	3/11/22 13:40	3/11/22 15:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/11/22 13:40	3/15/22 16:45		5.075	1.48	mg/L	0.000761	0.001015	
* Molybdenum, Dissolved	3/11/22 13:40	3/11/22 15:18		1.015	0.0330	mg/L	0.000102	0.000203	
* Potassium, Dissolved	3/11/22 13:40	3/11/22 15:18		1.015	3.32	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/11/22 13:40	3/11/22 15:18		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/11/22 13:40	3/11/22 15:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	3/10/22 17:58	3/10/22 22:51		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	3/17/22 12:45	3/17/22 12:45		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity, Total as CaCO3	3/14/22 10:15	3/14/22 15:35		1	208	mg/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	3/11/22 10:40	3/14/22 13:47		1	598	mg/L		50	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
Bicarbonate Alkalinity, (calc.)	3/14/22 10:15	3/14/22 15:35		1	207	mg/L			A
Carbonate Alkalinity, (calc.)	3/14/22 10:15	3/14/22 15:35		1	0.66	mg/L			A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/15/22 16:59	3/15/22 16:59		1	2.27	mg/L	1.00	2	

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-7SR

**Location Code:** WMWMILAP  
**Collected:** 3/8/22 12:48  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05060

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/11/22 11:17	3/11/22 11:17		2	24.3	mg/L	1.00	2	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 09:08	3/22/22 09:08		1	0.223	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/23/22 14:35	3/23/22 14:35		16	279	mg/L	9.6	32	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	3/8/22 12:45	3/8/22 12:45			908.38	uS/cm			FA
pH	3/8/22 12:45	3/8/22 12:45			6.61	SU			FA
Temperature	3/8/22 12:45	3/8/22 12:45			14.80	C			FA
Turbidity	3/8/22 12:45	3/8/22 12:45			3.08	NTU			FA

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.



# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/8/22 12:48  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-7SR

**Laboratory ID Number:** BC05060

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BC05067	Aluminum, Dissolved	mg/L	-0.000823	0.010	0.100	0.101	0.102	0.109	0.0850 to 0.115	101	70.0 to 130	0.985	20.0	
BC05066	Aluminum, Total	mg/L	-0.000102	0.010	0.100	0.104	0.103	0.102	0.0850 to 0.115	92.3	70.0 to 130	0.966	20.0	
BC05067	Antimony, Dissolved	mg/L	0.000222	0.00100	0.100	0.0910	0.0932	0.0932	0.0850 to 0.115	91.0	70.0 to 130	2.39	20.0	
BC05066	Antimony, Total	mg/L	0.000398	0.00100	0.100	0.0972	0.0983	0.0938	0.0850 to 0.115	97.2	70.0 to 130	1.13	20.0	
BC05067	Arsenic, Dissolved	mg/L	0.0000046	0.000176	0.100	0.0968	0.0970	0.101	0.0850 to 0.115	96.0	70.0 to 130	0.206	20.0	
BC05066	Arsenic, Total	mg/L	-0.0000174	0.000176	0.100	0.0968	0.0983	0.102	0.0850 to 0.115	95.9	70.0 to 130	1.54	20.0	
BC05067	Barium, Dissolved	mg/L	0.0000160	0.000200	0.100	0.108	0.109	0.100	0.0850 to 0.115	91.4	70.0 to 130	0.922	20.0	
BC05066	Barium, Total	mg/L	-0.0000079	0.000200	0.100	0.119	0.118	0.0979	0.0850 to 0.115	94.5	70.0 to 130	0.844	20.0	
BC05067	Beryllium, Dissolved	mg/L	0.0000178	0.000880	0.100	0.0952	0.0973	0.109	0.0850 to 0.115	95.2	70.0 to 130	2.18	20.0	
BC05066	Beryllium, Total	mg/L	0.0000199	0.000880	0.100	0.0889	0.0902	0.0937	0.0850 to 0.115	88.9	70.0 to 130	1.45	20.0	
BC05067	Boron, Dissolved	mg/L	-0.000193	0.0650	1.00	1.18	1.15	1.02	0.850 to 1.15	106	70.0 to 130	2.58	20.0	
BC05066	Boron, Total	mg/L	0.000004	0.0650	1.00	1.76	1.73	0.978	0.850 to 1.15	100	70.0 to 130	1.72	20.0	
BC05067	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0928	0.0945	0.0989	0.0850 to 0.115	92.8	70.0 to 130	1.82	20.0	
BC05066	Cadmium, Total	mg/L	0.0000059	0.000147	0.100	0.0920	0.0908	0.100	0.0850 to 0.115	92.0	70.0 to 130	1.31	20.0	
BC05067	Calcium, Dissolved	mg/L	-0.0163	0.152	5.00	108	105	4.87	4.25 to 5.75	100	70.0 to 130	2.82	20.0	
BC05066	Calcium, Total	mg/L	-0.00894	0.152	5.00	200	203	4.88	4.25 to 5.75	180	70.0 to 130	1.49	20.0	
BC05066	Chloride	mg/L	-0.0169	1.00	40.0	68.2	68.4	9.80	9.00 to 11.0	102	80.0 to 120	0.293	20.0	
BC05067	Chromium, Dissolved	mg/L	-0.000106	0.000440	0.100	0.0926	0.0952	0.102	0.0850 to 0.115	92.6	70.0 to 130	2.77	20.0	
BC05066	Chromium, Total	mg/L	0.0000215	0.000440	0.100	0.0934	0.0922	0.100	0.0850 to 0.115	93.2	70.0 to 130	1.29	20.0	
BC05067	Cobalt, Dissolved	mg/L	-0.0000005	0.000147	0.100	0.0938	0.0964	0.104	0.0850 to 0.115	93.7	70.0 to 130	2.73	20.0	
BC05066	Cobalt, Total	mg/L	0.0000085	0.000147	0.100	0.0966	0.0969	0.104	0.0850 to 0.115	95.8	70.0 to 130	0.310	20.0	
BC05066	Fluoride	mg/L	-0.0438	0.125	2.50	2.90	3.03	2.69	2.25 to 2.75	103	80.0 to 120	4.38	20.0	
BC05067	Iron, Dissolved	mg/L	-0.000384	0.0176	0.2	4.29	4.21	0.199	0.170 to 0.230	135	70.0 to 130	1.88	20.0	

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/8/22 12:48  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-7SR

**Laboratory ID Number:** BC05060

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec Limit
				Limit					Limit		Rec	Limit	
BC05066	Iron, Total	mg/L	-0.000562	0.0176	0.2	5.00	4.90	0.199	0.170 to 0.230	150	70.0 to 130	2.02	20.0
BC05067	Lead, Dissolved	mg/L	0.0000104	0.000147	0.100	0.0956	0.0979	0.101	0.0850 to 0.115	95.6	70.0 to 130	2.38	20.0
BC05066	Lead, Total	mg/L	0.0000118	0.000147	0.100	0.0984	0.0974	0.0985	0.0850 to 0.115	98.4	70.0 to 130	1.02	20.0
BC05067	Lithium, Dissolved	mg/L	-0.000318	0.0154	0.200	0.238	0.238	0.200	0.170 to 0.230	99.2	70.0 to 130	0.00	20.0
BC05066	Lithium, Total	mg/L	-0.000138	0.0154	0.200	0.424	0.419	0.201	0.170 to 0.230	104	70.0 to 130	1.19	20.0
BC05067	Magnesium, Dissolved	mg/L	-0.00178	0.0462	5.00	57.1	55.9	5.10	4.25 to 5.75	86.0	70.0 to 130	2.12	20.0
BC05066	Magnesium, Total	mg/L	0.00188	0.0462	5.00	49.6	48.2	5.16	4.25 to 5.75	116	70.0 to 130	2.86	20.0
BC05067	Manganese, Dissolved	mg/L	0.0000035	0.0002	0.100	0.584	0.591	0.104	0.0850 to 0.115	67.0	70.0 to 130	1.19	20.0
BC05066	Manganese, Total	mg/L	-0.0000019	0.0002	0.100	1.25	1.26	0.101	0.0850 to 0.115	70.0	70.0 to 130	0.797	20.0
BC05066	Mercury, Total by CVAA	mg/L	-3.000E-05	0.000500	0.004	0.00402	0.00405	0.0038	0.00340 to 0.00460	100	70.0 to 130	0.743	20.0
BC05067	Molybdenum, Dissolved	mg/L	0.0000115	0.0002	0.100	0.0924	0.0981	0.0998	0.0850 to 0.115	92.2	70.0 to 130	5.98	20.0
BC05066	Molybdenum, Total	mg/L	0.0000253	0.0002	0.100	0.153	0.159	0.0993	0.0850 to 0.115	90.9	70.0 to 130	3.85	20.0
BC05067	Potassium, Dissolved	mg/L	0.0220	0.367	10.0	12.3	12.6	10.7	8.50 to 11.5	99.0	70.0 to 130	2.41	20.0
BC05066	Potassium, Total	mg/L	0.0236	0.367	10.0	13.9	14.0	9.94	8.50 to 11.5	91.4	70.0 to 130	0.717	20.0
BC05067	Selenium, Dissolved	mg/L	0.0000682	0.00100	0.100	0.0957	0.0996	0.102	0.0850 to 0.115	95.7	70.0 to 130	3.99	20.0
BC05066	Selenium, Total	mg/L	-0.000353	0.00100	0.100	0.0949	0.0968	0.103	0.0850 to 0.115	94.9	70.0 to 130	1.98	20.0
BC05067	Silicon, Dissolved	mg/L	-0.000427	0.0440	1.00	14.8	14.7	1.02	0.850 to 1.15	120	70.0 to 130	0.678	20.0
BC05066	Silicon, Total	mg/L	0.00024	0.0440	1.00	5.87	5.77	1.01	0.850 to 1.15	93.0	70.0 to 130	1.72	20.0
BC05067	Sodium, Dissolved	mg/L	0.000048	0.0660	5.00	35.6	36.0	5.02	4.25 to 5.75	92.0	70.0 to 130	1.12	20.0
BC05066	Sodium, Total	mg/L	0.000363	0.0660	5.00	107	102	5.04	4.25 to 5.75	100	70.0 to 130	4.78	20.0
BC05066	Sulfate	mg/L	0.285	2.0	1000	1820	1800	20.0	18.0 to 22.0	104	80.0 to 120	1.10	20.0
BC05067	Thallium, Dissolved	mg/L	0.0000019	0.000147	0.100	0.0980	0.0998	0.100	0.0850 to 0.115	98.0	70.0 to 130	1.82	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/8/22 12:48  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-7SR

**Laboratory ID Number:** BC05060

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05066	Thallium, Total	mg/L	0.0000115	0.000147	0.100	0.0979	0.0986	0.0978	0.0850 to 0.115	97.9	70.0 to 130	0.712	20.0
BC05066	Total Organic Carbon	mg/L	0.320	1.00	10.0	11.8	11.7	9.88		101	80.0 to 120	0.851	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

## Batch QC Summary

**Customer Account:** WMWMILAP

**Sample Date:** 3/8/22 12:48

**Customer ID:**

**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-7SR

**Laboratory ID Number:** BC05060

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05077	Alkalinity, Total as CaCO3	mg/L					499	50.9	45.0 to 55.0			7.27	10.0
BC05066	Nitrogen, Nitrate/Nitrite	mg/L as N	0.07	0.200	2.00	2.06	0.087	1.88	1.80 to 2.20	103	90.0 to 110	0.00	15.0
BC05066	Solids, Dissolved	mg/L	0.0000	25.0			1090	50.0	40.0 to 60.0			2.71	10.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-7DR

**Location Code:** WMWMILAP  
**Collected:** 3/8/22 13:46  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05061

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	3/17/22 10:40	3/22/22 10:17		1.015	0.759	mg/L	0.030000	0.1015	
* Calcium, Total	3/17/22 10:40	3/22/22 11:54		10.15	124	mg/L	0.70035	4.06	
* Iron, Total	3/17/22 10:40	3/22/22 10:17		1.015	2.18	mg/L	0.008120	0.0406	
* Lithium, Total	3/17/22 10:40	3/22/22 10:17		1.015	0.105	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/17/22 10:40	3/22/22 10:17		1.015	38.8	mg/L	0.021315	0.406	
Silica, Total (calc.)	3/17/22 10:40	3/22/22 10:17		1	14.4	mg/L			
Silicon, Total	3/17/22 10:40	3/22/22 10:17		1.015	6.73	mg/L	0.02030	0.25375	
* Sodium, Total	3/17/22 10:40	3/22/22 11:54		10.15	81.2	mg/L	0.3045	4.06	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	3/17/22 14:16	3/23/22 09:57		1.015	0.764	mg/L	0.030000	0.1015	
* Calcium, Dissolved	3/17/22 14:16	3/23/22 11:35		10.15	130	mg/L	0.70035	4.06	
* Iron, Dissolved	3/17/22 14:16	3/23/22 09:57		1.015	2.14	mg/L	0.008120	0.0406	
* Lithium, Dissolved	3/17/22 14:16	3/23/22 09:57		1.015	0.101	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	3/17/22 14:16	3/23/22 09:57		1.015	38.3	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	3/17/22 14:16	3/23/22 09:57		1	14.4	mg/L			
Silicon, Dissolved	3/17/22 14:16	3/23/22 09:57		1.015	6.71	mg/L	0.02030	0.25375	
* Sodium, Dissolved	3/17/22 14:16	3/23/22 11:35		10.15	80.6	mg/L	0.3045	4.06	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	3/11/22 11:09	3/11/22 19:01		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/11/22 11:09	3/11/22 19:01		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	3/11/22 11:09	3/11/22 19:01		1.015	0.000614	mg/L	0.000081	0.000203	
* Barium, Total	3/11/22 11:09	3/11/22 19:01		1.015	0.0261	mg/L	0.000102	0.000203	
* Beryllium, Total	3/11/22 11:09	3/11/22 19:01		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/11/22 11:09	3/11/22 19:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/11/22 11:09	3/11/22 19:01		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	3/11/22 11:09	3/11/22 19:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	3/11/22 11:09	3/11/22 19:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/11/22 11:09	3/11/22 19:01		1.015	1.12	mg/L	0.000152	0.000203	
* Molybdenum, Total	3/11/22 11:09	3/11/22 19:01		1.015	0.00515	mg/L	0.000102	0.000203	
* Potassium, Total	3/11/22 11:09	3/11/22 19:01		1.015	2.42	mg/L	0.169505	0.5075	

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-7DR

**Location Code:** WMWMLAP  
**Collected:** 3/8/22 13:46  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05061

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/11/22 11:09	3/11/22 19:01		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/11/22 11:09	3/11/22 19:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	3/11/22 13:40	3/11/22 15:22		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/11/22 13:40	3/11/22 15:22		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/11/22 13:40	3/11/22 15:22		1.015	0.000655	mg/L	0.000081	0.000203	
* Barium, Dissolved	3/11/22 13:40	3/11/22 15:22		1.015	0.0258	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/11/22 13:40	3/11/22 15:22		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/11/22 13:40	3/11/22 15:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/11/22 13:40	3/11/22 15:22		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	3/11/22 13:40	3/11/22 15:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	3/11/22 13:40	3/11/22 15:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/11/22 13:40	3/11/22 15:22		1.015	1.15	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/11/22 13:40	3/11/22 15:22		1.015	0.00523	mg/L	0.000102	0.000203	
* Potassium, Dissolved	3/11/22 13:40	3/11/22 15:22		1.015	2.61	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/11/22 13:40	3/11/22 15:22		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/11/22 13:40	3/11/22 15:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	3/10/22 17:58	3/10/22 22:55		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	3/17/22 12:47	3/17/22 12:47		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity, Total as CaCO3	3/14/22 10:15	3/14/22 15:35		1	165	mg/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	3/11/22 10:40	3/14/22 13:47		1	798	mg/L		50	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
Bicarbonate Alkalinity, (calc.)	3/14/22 10:15	3/14/22 15:35		1	165	mg/L			A
Carbonate Alkalinity, (calc.)	3/14/22 10:15	3/14/22 15:35		1	0.18	mg/L			A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/15/22 17:20	3/15/22 17:20		1	1.97	mg/L	1.00	2	J

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-7DR

**Location Code:** WMWMILAP  
**Collected:** 3/8/22 13:46  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05061

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/11/22 11:18	3/11/22 11:18		4	54.3	mg/L	2.00	4	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 09:09	3/22/22 09:09		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/23/22 14:36	3/23/22 14:36		25	407	mg/L	15.0	50	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	3/8/22 13:43	3/8/22 13:43			1223.41	uS/cm			FA
pH	3/8/22 13:43	3/8/22 13:43			6.81	SU			FA
Temperature	3/8/22 13:43	3/8/22 13:43			15.72	C			FA
Turbidity	3/8/22 13:43	3/8/22 13:43			0.21	NTU			FA

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/8/22 13:46  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-7DR

**Laboratory ID Number:** BC05061

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BC05067	Aluminum, Dissolved	mg/L	-0.000823	0.010	0.100	0.101	0.102	0.109	0.0850 to 0.115	101	70.0 to 130	0.985	20.0	
BC05066	Aluminum, Total	mg/L	-0.000102	0.010	0.100	0.104	0.103	0.102	0.0850 to 0.115	92.3	70.0 to 130	0.966	20.0	
BC05067	Antimony, Dissolved	mg/L	0.000222	0.00100	0.100	0.0910	0.0932	0.0932	0.0850 to 0.115	91.0	70.0 to 130	2.39	20.0	
BC05066	Antimony, Total	mg/L	0.000398	0.00100	0.100	0.0972	0.0983	0.0938	0.0850 to 0.115	97.2	70.0 to 130	1.13	20.0	
BC05067	Arsenic, Dissolved	mg/L	0.0000046	0.000176	0.100	0.0968	0.0970	0.101	0.0850 to 0.115	96.0	70.0 to 130	0.206	20.0	
BC05066	Arsenic, Total	mg/L	-0.0000174	0.000176	0.100	0.0968	0.0983	0.102	0.0850 to 0.115	95.9	70.0 to 130	1.54	20.0	
BC05067	Barium, Dissolved	mg/L	0.0000160	0.000200	0.100	0.108	0.109	0.100	0.0850 to 0.115	91.4	70.0 to 130	0.922	20.0	
BC05066	Barium, Total	mg/L	-0.0000079	0.000200	0.100	0.119	0.118	0.0979	0.0850 to 0.115	94.5	70.0 to 130	0.844	20.0	
BC05067	Beryllium, Dissolved	mg/L	0.0000178	0.000880	0.100	0.0952	0.0973	0.109	0.0850 to 0.115	95.2	70.0 to 130	2.18	20.0	
BC05066	Beryllium, Total	mg/L	0.0000199	0.000880	0.100	0.0889	0.0902	0.0937	0.0850 to 0.115	88.9	70.0 to 130	1.45	20.0	
BC05067	Boron, Dissolved	mg/L	-0.000193	0.0650	1.00	1.18	1.15	1.02	0.850 to 1.15	106	70.0 to 130	2.58	20.0	
BC05066	Boron, Total	mg/L	0.000004	0.0650	1.00	1.76	1.73	0.978	0.850 to 1.15	100	70.0 to 130	1.72	20.0	
BC05067	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0928	0.0945	0.0989	0.0850 to 0.115	92.8	70.0 to 130	1.82	20.0	
BC05066	Cadmium, Total	mg/L	0.0000059	0.000147	0.100	0.0920	0.0908	0.100	0.0850 to 0.115	92.0	70.0 to 130	1.31	20.0	
BC05067	Calcium, Dissolved	mg/L	-0.0163	0.152	5.00	108	105	4.87	4.25 to 5.75	100	70.0 to 130	2.82	20.0	
BC05066	Calcium, Total	mg/L	-0.00894	0.152	5.00	200	203	4.88	4.25 to 5.75	180	70.0 to 130	1.49	20.0	
BC05066	Chloride	mg/L	-0.0169	1.00	40.0	68.2	68.4	9.80	9.00 to 11.0	102	80.0 to 120	0.293	20.0	
BC05067	Chromium, Dissolved	mg/L	-0.000106	0.000440	0.100	0.0926	0.0952	0.102	0.0850 to 0.115	92.6	70.0 to 130	2.77	20.0	
BC05066	Chromium, Total	mg/L	0.0000215	0.000440	0.100	0.0934	0.0922	0.100	0.0850 to 0.115	93.2	70.0 to 130	1.29	20.0	
BC05067	Cobalt, Dissolved	mg/L	-0.0000005	0.000147	0.100	0.0938	0.0964	0.104	0.0850 to 0.115	93.7	70.0 to 130	2.73	20.0	
BC05066	Cobalt, Total	mg/L	0.0000085	0.000147	0.100	0.0966	0.0969	0.104	0.0850 to 0.115	95.8	70.0 to 130	0.310	20.0	
BC05066	Fluoride	mg/L	-0.0438	0.125	2.50	2.90	3.03	2.69	2.25 to 2.75	103	80.0 to 120	4.38	20.0	
BC05067	Iron, Dissolved	mg/L	-0.000384	0.0176	0.2	4.29	4.21	0.199	0.170 to 0.230	135	70.0 to 130	1.88	20.0	

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.



# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/8/22 13:46  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-7DR

**Laboratory ID Number:** BC05061

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05066	Iron, Total	mg/L	-0.000562	0.0176	0.2	5.00	4.90	0.199	0.170 to 0.230	150	70.0 to 130	2.02	20.0
BC05067	Lead, Dissolved	mg/L	0.0000104	0.000147	0.100	0.0956	0.0979	0.101	0.0850 to 0.115	95.6	70.0 to 130	2.38	20.0
BC05066	Lead, Total	mg/L	0.0000118	0.000147	0.100	0.0984	0.0974	0.0985	0.0850 to 0.115	98.4	70.0 to 130	1.02	20.0
BC05067	Lithium, Dissolved	mg/L	-0.000318	0.0154	0.200	0.238	0.238	0.200	0.170 to 0.230	99.2	70.0 to 130	0.00	20.0
BC05066	Lithium, Total	mg/L	-0.000138	0.0154	0.200	0.424	0.419	0.201	0.170 to 0.230	104	70.0 to 130	1.19	20.0
BC05067	Magnesium, Dissolved	mg/L	-0.00178	0.0462	5.00	57.1	55.9	5.10	4.25 to 5.75	86.0	70.0 to 130	2.12	20.0
BC05066	Magnesium, Total	mg/L	0.00188	0.0462	5.00	49.6	48.2	5.16	4.25 to 5.75	116	70.0 to 130	2.86	20.0
BC05067	Manganese, Dissolved	mg/L	0.0000035	0.0002	0.100	0.584	0.591	0.104	0.0850 to 0.115	67.0	70.0 to 130	1.19	20.0
BC05066	Manganese, Total	mg/L	-0.0000019	0.0002	0.100	1.25	1.26	0.101	0.0850 to 0.115	70.0	70.0 to 130	0.797	20.0
BC05066	Mercury, Total by CVAA	mg/L	-3.000E-05	0.000500	0.004	0.00402	0.00405	0.0038	0.00340 to 0.00460	100	70.0 to 130	0.743	20.0
BC05067	Molybdenum, Dissolved	mg/L	0.0000115	0.0002	0.100	0.0924	0.0981	0.0998	0.0850 to 0.115	92.2	70.0 to 130	5.98	20.0
BC05066	Molybdenum, Total	mg/L	0.0000253	0.0002	0.100	0.153	0.159	0.0993	0.0850 to 0.115	90.9	70.0 to 130	3.85	20.0
BC05067	Potassium, Dissolved	mg/L	0.0220	0.367	10.0	12.3	12.6	10.7	8.50 to 11.5	99.0	70.0 to 130	2.41	20.0
BC05066	Potassium, Total	mg/L	0.0236	0.367	10.0	13.9	14.0	9.94	8.50 to 11.5	91.4	70.0 to 130	0.717	20.0
BC05067	Selenium, Dissolved	mg/L	0.0000682	0.00100	0.100	0.0957	0.0996	0.102	0.0850 to 0.115	95.7	70.0 to 130	3.99	20.0
BC05066	Selenium, Total	mg/L	-0.000353	0.00100	0.100	0.0949	0.0968	0.103	0.0850 to 0.115	94.9	70.0 to 130	1.98	20.0
BC05067	Silicon, Dissolved	mg/L	-0.000427	0.0440	1.00	14.8	14.7	1.02	0.850 to 1.15	120	70.0 to 130	0.678	20.0
BC05066	Silicon, Total	mg/L	0.00024	0.0440	1.00	5.87	5.77	1.01	0.850 to 1.15	93.0	70.0 to 130	1.72	20.0
BC05067	Sodium, Dissolved	mg/L	0.000048	0.0660	5.00	35.6	36.0	5.02	4.25 to 5.75	92.0	70.0 to 130	1.12	20.0
BC05066	Sodium, Total	mg/L	0.000363	0.0660	5.00	107	102	5.04	4.25 to 5.75	100	70.0 to 130	4.78	20.0
BC05066	Sulfate	mg/L	0.285	2.0	1000	1820	1800	20.0	18.0 to 22.0	104	80.0 to 120	1.10	20.0
BC05067	Thallium, Dissolved	mg/L	0.0000019	0.000147	0.100	0.0980	0.0998	0.100	0.0850 to 0.115	98.0	70.0 to 130	1.82	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/8/22 13:46  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-7DR

**Laboratory ID Number:** BC05061

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05066	Thallium, Total	mg/L	0.0000115	0.000147	0.100	0.0979	0.0986	0.0978	0.0850 to 0.115	97.9	70.0 to 130	0.712	20.0
BC05066	Total Organic Carbon	mg/L	0.320	1.00	10.0	11.8	11.7	9.88		101	80.0 to 120	0.851	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

## Batch QC Summary

**Customer Account:** WMWMILAP

**Sample Date:** 3/8/22 13:46

**Customer ID:**

**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-7DR

**Laboratory ID Number:** BC05061

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05077	Alkalinity, Total as CaCO3	mg/L					499	50.9	45.0 to 55.0			7.27	10.0
BC05066	Nitrogen, Nitrate/Nitrite	mg/L as N	0.07	0.200	2.00	2.06	0.087	1.88	1.80 to 2.20	103	90.0 to 110	0.00	15.0
BC05066	Solids, Dissolved	mg/L	0.0000	25.0			1090	50.0	40.0 to 60.0			2.71	10.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond Field Blank-1

**Location Code:** WMWMILAPFB  
**Collected:** 3/8/22 14:35  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05062

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: RDA</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	3/17/22 10:40	3/22/22 10:19		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	3/17/22 10:40	3/22/22 10:19		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	3/17/22 10:40	3/22/22 10:19		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	3/17/22 10:40	3/22/22 10:19		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	3/17/22 10:40	3/22/22 10:19		1.015	Not Detected	mg/L	0.021315	0.406	U
Silica, Total (calc.)	3/17/22 10:40	3/22/22 10:19		1	Not Detected	mg/L			
Silicon, Total	3/17/22 10:40	3/22/22 10:19		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	3/17/22 10:40	3/22/22 10:19		1.015	0.0506	mg/L	0.03045	0.406	J
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	3/11/22 11:09	3/11/22 19:04		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/11/22 11:09	3/11/22 19:04		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	3/11/22 11:09	3/11/22 19:04		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	3/11/22 11:09	3/11/22 19:04		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Beryllium, Total	3/11/22 11:09	3/11/22 19:04		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/11/22 11:09	3/11/22 19:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/11/22 11:09	3/11/22 19:04		1.015	0.000229	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/11/22 11:09	3/11/22 19:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	3/11/22 11:09	3/11/22 19:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/11/22 11:09	3/11/22 19:04		1.015	Not Detected	mg/L	0.000152	0.000203	U
* Molybdenum, Total	3/11/22 11:09	3/11/22 19:04		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	3/11/22 11:09	3/11/22 19:04		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	3/11/22 11:09	3/11/22 19:04		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/11/22 11:09	3/11/22 19:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>			<b>Analyst: CRB</b>						
* Mercury, Total by CVAA	3/10/22 17:58	3/10/22 22:59		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>			<b>Analyst: CES</b>						
* Nitrogen, Nitrate/Nitrite	3/17/22 12:48	3/17/22 12:48		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2540C</b>			<b>Analyst: CNJ</b>						
* Solids, Dissolved	3/11/22 10:40	3/14/22 13:47		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:** 3/8/22 14:35

**Customer ID:**

**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05062

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/15/22 17:36	3/15/22 17:36		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/11/22 11:09	3/11/22 11:09		1	Not Detected	mg/L	0.50	1	U
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 09:10	3/22/22 09:10		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/23/22 14:37	3/23/22 14:37		1	Not Detected	mg/L	0.6	2	U

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

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**Comments:**

# Batch QC Summary

**Customer Account:** WMWMILAPFB

**Sample Date:** 3/8/22 14:35

**Customer ID:**

**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond Field Blank-1

**Laboratory ID Number:** BC05062

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BC05066	Aluminum, Total	mg/L	-0.000102	0.010	0.100	0.104	0.103	0.102	0.0850 to 0.115	92.3	70.0 to 130	0.966	20.0
BC05066	Antimony, Total	mg/L	0.000398	0.00100	0.100	0.0972	0.0983	0.0938	0.0850 to 0.115	97.2	70.0 to 130	1.13	20.0
BC05066	Arsenic, Total	mg/L	-0.0000174	0.000176	0.100	0.0968	0.0983	0.102	0.0850 to 0.115	95.9	70.0 to 130	1.54	20.0
BC05066	Barium, Total	mg/L	-0.0000079	0.000200	0.100	0.119	0.118	0.0979	0.0850 to 0.115	94.5	70.0 to 130	0.844	20.0
BC05066	Beryllium, Total	mg/L	0.0000199	0.000880	0.100	0.0889	0.0902	0.0937	0.0850 to 0.115	88.9	70.0 to 130	1.45	20.0
BC05066	Boron, Total	mg/L	0.000004	0.0650	1.00	1.76	1.73	0.978	0.850 to 1.15	100	70.0 to 130	1.72	20.0
BC05066	Cadmium, Total	mg/L	0.0000059	0.000147	0.100	0.0920	0.0908	0.100	0.0850 to 0.115	92.0	70.0 to 130	1.31	20.0
BC05066	Calcium, Total	mg/L	-0.00894	0.152	5.00	200	203	4.88	4.25 to 5.75	180	70.0 to 130	1.49	20.0
BC05066	Chloride	mg/L	-0.0169	1.00	40.0	68.2	68.4	9.80	9.00 to 11.0	102	80.0 to 120	0.293	20.0
BC05066	Chromium, Total	mg/L	0.0000215	0.000440	0.100	0.0934	0.0922	0.100	0.0850 to 0.115	93.2	70.0 to 130	1.29	20.0
BC05066	Cobalt, Total	mg/L	0.0000085	0.000147	0.100	0.0966	0.0969	0.104	0.0850 to 0.115	95.8	70.0 to 130	0.310	20.0
BC05066	Fluoride	mg/L	-0.0438	0.125	2.50	2.90	3.03	2.69	2.25 to 2.75	103	80.0 to 120	4.38	20.0
BC05066	Iron, Total	mg/L	-0.000562	0.0176	0.2	5.00	4.90	0.199	0.170 to 0.230	150	70.0 to 130	2.02	20.0
BC05066	Lead, Total	mg/L	0.0000118	0.000147	0.100	0.0984	0.0974	0.0985	0.0850 to 0.115	98.4	70.0 to 130	1.02	20.0
BC05066	Lithium, Total	mg/L	-0.000138	0.0154	0.200	0.424	0.419	0.201	0.170 to 0.230	104	70.0 to 130	1.19	20.0
BC05066	Magnesium, Total	mg/L	0.00188	0.0462	5.00	49.6	48.2	5.16	4.25 to 5.75	116	70.0 to 130	2.86	20.0
BC05066	Manganese, Total	mg/L	-0.0000019	0.0002	0.100	1.25	1.26	0.101	0.0850 to 0.115	70.0	70.0 to 130	0.797	20.0
BC05066	Mercury, Total by CVAA	mg/L	-3.000E-05	0.000500	0.004	0.00402	0.00405	0.0038	0.00340 to 0.00460	100	70.0 to 130	0.743	20.0
BC05066	Molybdenum, Total	mg/L	0.0000253	0.0002	0.100	0.153	0.159	0.0993	0.0850 to 0.115	90.9	70.0 to 130	3.85	20.0
BC05066	Potassium, Total	mg/L	0.0236	0.367	10.0	13.9	14.0	9.94	8.50 to 11.5	91.4	70.0 to 130	0.717	20.0
BC05066	Selenium, Total	mg/L	-0.000353	0.00100	0.100	0.0949	0.0968	0.103	0.0850 to 0.115	94.9	70.0 to 130	1.98	20.0
BC05066	Silicon, Total	mg/L	0.00024	0.0440	1.00	5.87	5.77	1.01	0.850 to 1.15	93.0	70.0 to 130	1.72	20.0
BC05066	Sodium, Total	mg/L	0.000363	0.0660	5.00	107	102	5.04	4.25 to 5.75	100	70.0 to 130	4.78	20.0

**Comments:**

# Batch QC Summary

**Customer Account:** WMWMILAPFB

**Sample Date:** 3/8/22 14:35

**Customer ID:**

**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond Field Blank-1

**Laboratory ID Number:** BC05062

Sample	Analysis	Units	MB	MB				Standard	Standard Limit	Rec		Prec Limit	
				Limit	Spike	MS	MSD			Rec	Limit		
BC05066	Sulfate	mg/L	0.285	2.0	1000	1820	1800	20.0	18.0 to 22.0	104	80.0 to 120	1.10	20.0
BC05066	Thallium, Total	mg/L	0.0000115	0.000147	0.100	0.0979	0.0986	0.0978	0.0850 to 0.115	97.9	70.0 to 130	0.712	20.0
BC05066	Total Organic Carbon	mg/L	0.320	1.00	10.0	11.8	11.7	9.88		101	80.0 to 120	0.851	20.0

**Comments:**

## Batch QC Summary

**Customer Account:** WMWMILAPFB

**Sample Date:** 3/8/22 14:35

**Customer ID:**

**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond Field Blank-1

**Laboratory ID Number:** BC05062

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05066	Nitrogen, Nitrate/Nitrite	mg/L as N	0.07	0.200	2.00	2.06	0.087	1.88	1.80 to 2.20	103	90.0 to 110	0.00	15.0
BC05066	Solids, Dissolved	mg/L	0.0000	25.0			1090	50.0	40.0 to 60.0			2.71	10.0

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**Comments:**



# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-32H

**Location Code:** WMWMILAP  
**Collected:** 3/9/22 08:42  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05063

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	3/17/22 10:40	3/22/22 10:21		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	3/17/22 10:40	3/22/22 11:56		10.15	53.6	mg/L	0.70035	4.06		
* Iron, Total	3/17/22 10:40	3/22/22 10:21		1.015	0.162	mg/L	0.008120	0.0406		
* Lithium, Total	3/17/22 10:40	3/22/22 10:21		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	3/17/22 10:40	3/22/22 10:21		1.015	11.2	mg/L	0.021315	0.406		
Silica, Total (calc.)	3/17/22 10:40	3/22/22 10:21		1	22.7	mg/L				
Silicon, Total	3/17/22 10:40	3/22/22 10:21		1.015	10.6	mg/L	0.02030	0.25375		
* Sodium, Total	3/17/22 10:40	3/22/22 10:21		1.015	21.8	mg/L	0.03045	0.406		
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Dissolved	3/17/22 14:16	3/23/22 09:59		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Dissolved	3/17/22 14:16	3/23/22 11:37		10.15	58.7	mg/L	0.70035	4.06		
* Iron, Dissolved	3/17/22 14:16	3/23/22 09:59		1.015	0.154	mg/L	0.008120	0.0406		
* Lithium, Dissolved	3/17/22 14:16	3/23/22 09:59		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	3/17/22 14:16	3/23/22 09:59		1.015	11.3	mg/L	0.021315	0.406		
Silica, Dissolved (calc.)	3/17/22 14:16	3/23/22 09:59		1	22.5	mg/L				
Silicon, Dissolved	3/17/22 14:16	3/23/22 09:59		1.015	10.5	mg/L	0.02030	0.25375		
* Sodium, Dissolved	3/17/22 14:16	3/23/22 09:59		1.015	21.9	mg/L	0.03045	0.406		
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	3/11/22 11:09	3/11/22 19:08		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	3/11/22 11:09	3/11/22 19:08		1.015	Not Detected	mg/L	0.006090	0.01015	U	
* Arsenic, Total	3/11/22 11:09	3/11/22 19:08		1.015	0.000802	mg/L	0.000081	0.000203		
* Barium, Total	3/11/22 11:09	3/11/22 19:08		1.015	0.492	mg/L	0.000102	0.000203		
* Beryllium, Total	3/11/22 11:09	3/11/22 19:08		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	3/11/22 11:09	3/11/22 19:08		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	3/11/22 11:09	3/11/22 19:08		1.015	0.000236	mg/L	0.000203	0.001015	J	
* Cobalt, Total	3/11/22 11:09	3/11/22 19:08		1.015	0.0000712	mg/L	0.000068	0.000203	J	
* Lead, Total	3/11/22 11:09	3/11/22 19:08		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	3/11/22 11:09	3/11/22 19:08		1.015	0.00862	mg/L	0.000152	0.000203		
* Molybdenum, Total	3/11/22 11:09	3/11/22 19:08		1.015	0.00541	mg/L	0.000102	0.000203		
* Potassium, Total	3/11/22 11:09	3/11/22 19:08		1.015	1.62	mg/L	0.169505	0.5075		

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-32H

**Location Code:** WMWMILAP  
**Collected:** 3/9/22 08:42  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05063

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/11/22 11:09	3/11/22 19:08		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/11/22 11:09	3/11/22 19:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	3/11/22 13:40	3/11/22 15:26		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/11/22 13:40	3/11/22 15:26		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/11/22 13:40	3/11/22 15:26		1.015	0.000712	mg/L	0.000081	0.000203	
* Barium, Dissolved	3/11/22 13:40	3/11/22 15:26		1.015	0.490	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/11/22 13:40	3/11/22 15:26		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/11/22 13:40	3/11/22 15:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/11/22 13:40	3/11/22 15:26		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	3/11/22 13:40	3/11/22 15:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	3/11/22 13:40	3/11/22 15:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/11/22 13:40	3/11/22 15:26		1.015	0.00938	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/11/22 13:40	3/11/22 15:26		1.015	0.00536	mg/L	0.000102	0.000203	
* Potassium, Dissolved	3/11/22 13:40	3/11/22 15:26		1.015	1.77	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/11/22 13:40	3/11/22 15:26		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/11/22 13:40	3/11/22 15:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	3/10/22 17:58	3/10/22 23:03		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	3/17/22 12:50	3/17/22 12:50		1	0.278	mg/L as N	0.20	0.3	J
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity, Total as CaCO3	3/14/22 10:15	3/14/22 15:35		1	208	mg/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	3/11/22 10:40	3/14/22 13:47		1	234	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
Bicarbonate Alkalinity, (calc.)	3/14/22 10:15	3/14/22 15:35		1	206	mg/L			
Carbonate Alkalinity, (calc.)	3/14/22 10:15	3/14/22 15:35		1	1.77	mg/L			
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/15/22 17:56	3/15/22 17:56		1	Not Detected	mg/L	1.00	2	U

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-32H

**Location Code:** WMWMILAP  
**Collected:** 3/9/22 08:42  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05063

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/11/22 11:10	3/11/22 11:10		1	8.50	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 09:11	3/22/22 09:11		1	0.138	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/23/22 14:39	3/23/22 14:39		1	18.2	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	3/9/22 08:39	3/9/22 08:39			403.01	uS/cm			FA
pH	3/9/22 08:39	3/9/22 08:39			7.35	SU			FA
Temperature	3/9/22 08:39	3/9/22 08:39			15.69	C			FA
Turbidity	3/9/22 08:39	3/9/22 08:39			1.14	NTU			FA

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/9/22 08:42  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-32H

**Laboratory ID Number:** BC05063

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec
				Limit					Standard	Limit	Rec	Limit	
BC05067	Aluminum, Dissolved	mg/L	-0.000823	0.010	0.100	0.101	0.102	0.109	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC05066	Aluminum, Total	mg/L	-0.000102	0.010	0.100	0.104	0.103	0.102	0.0850 to 0.115	92.3	70.0 to 130	0.966	20.0
BC05067	Antimony, Dissolved	mg/L	0.000222	0.00100	0.100	0.0910	0.0932	0.0932	0.0850 to 0.115	91.0	70.0 to 130	2.39	20.0
BC05066	Antimony, Total	mg/L	0.000398	0.00100	0.100	0.0972	0.0983	0.0938	0.0850 to 0.115	97.2	70.0 to 130	1.13	20.0
BC05067	Arsenic, Dissolved	mg/L	0.0000046	0.000176	0.100	0.0968	0.0970	0.101	0.0850 to 0.115	96.0	70.0 to 130	0.206	20.0
BC05066	Arsenic, Total	mg/L	-0.0000174	0.000176	0.100	0.0968	0.0983	0.102	0.0850 to 0.115	95.9	70.0 to 130	1.54	20.0
BC05067	Barium, Dissolved	mg/L	0.0000160	0.000200	0.100	0.108	0.109	0.100	0.0850 to 0.115	91.4	70.0 to 130	0.922	20.0
BC05066	Barium, Total	mg/L	-0.0000079	0.000200	0.100	0.119	0.118	0.0979	0.0850 to 0.115	94.5	70.0 to 130	0.844	20.0
BC05067	Beryllium, Dissolved	mg/L	0.0000178	0.000880	0.100	0.0952	0.0973	0.109	0.0850 to 0.115	95.2	70.0 to 130	2.18	20.0
BC05066	Beryllium, Total	mg/L	0.0000199	0.000880	0.100	0.0889	0.0902	0.0937	0.0850 to 0.115	88.9	70.0 to 130	1.45	20.0
BC05067	Boron, Dissolved	mg/L	-0.000193	0.0650	1.00	1.18	1.15	1.02	0.850 to 1.15	106	70.0 to 130	2.58	20.0
BC05066	Boron, Total	mg/L	0.000004	0.0650	1.00	1.76	1.73	0.978	0.850 to 1.15	100	70.0 to 130	1.72	20.0
BC05067	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0928	0.0945	0.0989	0.0850 to 0.115	92.8	70.0 to 130	1.82	20.0
BC05066	Cadmium, Total	mg/L	0.0000059	0.000147	0.100	0.0920	0.0908	0.100	0.0850 to 0.115	92.0	70.0 to 130	1.31	20.0
BC05067	Calcium, Dissolved	mg/L	-0.0163	0.152	5.00	108	105	4.87	4.25 to 5.75	100	70.0 to 130	2.82	20.0
BC05066	Calcium, Total	mg/L	-0.00894	0.152	5.00	200	203	4.88	4.25 to 5.75	180	70.0 to 130	1.49	20.0
BC05066	Chloride	mg/L	-0.0169	1.00	40.0	68.2	68.4	9.80	9.00 to 11.0	102	80.0 to 120	0.293	20.0
BC05067	Chromium, Dissolved	mg/L	-0.000106	0.000440	0.100	0.0926	0.0952	0.102	0.0850 to 0.115	92.6	70.0 to 130	2.77	20.0
BC05066	Chromium, Total	mg/L	0.0000215	0.000440	0.100	0.0934	0.0922	0.100	0.0850 to 0.115	93.2	70.0 to 130	1.29	20.0
BC05067	Cobalt, Dissolved	mg/L	-0.0000005	0.000147	0.100	0.0938	0.0964	0.104	0.0850 to 0.115	93.7	70.0 to 130	2.73	20.0
BC05066	Cobalt, Total	mg/L	0.0000085	0.000147	0.100	0.0966	0.0969	0.104	0.0850 to 0.115	95.8	70.0 to 130	0.310	20.0
BC05066	Fluoride	mg/L	-0.0438	0.125	2.50	2.90	3.03	2.69	2.25 to 2.75	103	80.0 to 120	4.38	20.0
BC05067	Iron, Dissolved	mg/L	-0.000384	0.0176	0.2	4.29	4.21	0.199	0.170 to 0.230	135	70.0 to 130	1.88	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/9/22 08:42  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-32H

**Laboratory ID Number:** BC05063

Sample	Analysis	Units	MB	MB		MS	MSD	Standard	Standard		Rec		Prec	Limit
				Limit	Spike				Limit	Rec	Limit	Prec		
BC05066	Iron, Total	mg/L	-0.000562	0.0176	0.2	5.00	4.90	0.199	0.170 to 0.230	150	70.0 to 130	2.02	20.0	
BC05067	Lead, Dissolved	mg/L	0.0000104	0.000147	0.100	0.0956	0.0979	0.101	0.0850 to 0.115	95.6	70.0 to 130	2.38	20.0	
BC05066	Lead, Total	mg/L	0.0000118	0.000147	0.100	0.0984	0.0974	0.0985	0.0850 to 0.115	98.4	70.0 to 130	1.02	20.0	
BC05067	Lithium, Dissolved	mg/L	-0.000318	0.0154	0.200	0.238	0.238	0.200	0.170 to 0.230	99.2	70.0 to 130	0.00	20.0	
BC05066	Lithium, Total	mg/L	-0.000138	0.0154	0.200	0.424	0.419	0.201	0.170 to 0.230	104	70.0 to 130	1.19	20.0	
BC05067	Magnesium, Dissolved	mg/L	-0.00178	0.0462	5.00	57.1	55.9	5.10	4.25 to 5.75	86.0	70.0 to 130	2.12	20.0	
BC05066	Magnesium, Total	mg/L	0.00188	0.0462	5.00	49.6	48.2	5.16	4.25 to 5.75	116	70.0 to 130	2.86	20.0	
BC05067	Manganese, Dissolved	mg/L	0.0000035	0.0002	0.100	0.584	0.591	0.104	0.0850 to 0.115	67.0	70.0 to 130	1.19	20.0	
BC05066	Manganese, Total	mg/L	-0.0000019	0.0002	0.100	1.25	1.26	0.101	0.0850 to 0.115	70.0	70.0 to 130	0.797	20.0	
BC05066	Mercury, Total by CVAA	mg/L	-3.000E-05	0.000500	0.004	0.00402	0.00405	0.0038	0.00340 to 0.00460	100	70.0 to 130	0.743	20.0	
BC05067	Molybdenum, Dissolved	mg/L	0.0000115	0.0002	0.100	0.0924	0.0981	0.0998	0.0850 to 0.115	92.2	70.0 to 130	5.98	20.0	
BC05066	Molybdenum, Total	mg/L	0.0000253	0.0002	0.100	0.153	0.159	0.0993	0.0850 to 0.115	90.9	70.0 to 130	3.85	20.0	
BC05067	Potassium, Dissolved	mg/L	0.0220	0.367	10.0	12.3	12.6	10.7	8.50 to 11.5	99.0	70.0 to 130	2.41	20.0	
BC05066	Potassium, Total	mg/L	0.0236	0.367	10.0	13.9	14.0	9.94	8.50 to 11.5	91.4	70.0 to 130	0.717	20.0	
BC05067	Selenium, Dissolved	mg/L	0.0000682	0.00100	0.100	0.0957	0.0996	0.102	0.0850 to 0.115	95.7	70.0 to 130	3.99	20.0	
BC05066	Selenium, Total	mg/L	-0.000353	0.00100	0.100	0.0949	0.0968	0.103	0.0850 to 0.115	94.9	70.0 to 130	1.98	20.0	
BC05067	Silicon, Dissolved	mg/L	-0.000427	0.0440	1.00	14.8	14.7	1.02	0.850 to 1.15	120	70.0 to 130	0.678	20.0	
BC05066	Silicon, Total	mg/L	0.00024	0.0440	1.00	5.87	5.77	1.01	0.850 to 1.15	93.0	70.0 to 130	1.72	20.0	
BC05067	Sodium, Dissolved	mg/L	0.000048	0.0660	5.00	35.6	36.0	5.02	4.25 to 5.75	92.0	70.0 to 130	1.12	20.0	
BC05066	Sodium, Total	mg/L	0.000363	0.0660	5.00	107	102	5.04	4.25 to 5.75	100	70.0 to 130	4.78	20.0	
BC05066	Sulfate	mg/L	0.285	2.0	1000	1820	1800	20.0	18.0 to 22.0	104	80.0 to 120	1.10	20.0	
BC05067	Thallium, Dissolved	mg/L	0.0000019	0.000147	0.100	0.0980	0.0998	0.100	0.0850 to 0.115	98.0	70.0 to 130	1.82	20.0	

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/9/22 08:42  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-32H

**Laboratory ID Number:** BC05063

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05066	Thallium, Total	mg/L	0.0000115	0.000147	0.100	0.0979	0.0986	0.0978	0.0850 to 0.115	97.9	70.0 to 130	0.712	20.0
BC05066	Total Organic Carbon	mg/L	0.320	1.00	10.0	11.8	11.7	9.88		101	80.0 to 120	0.851	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

## Batch QC Summary

**Customer Account:** WMWMILAP

**Sample Date:** 3/9/22 08:42

**Customer ID:**

**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-32H

**Laboratory ID Number:** BC05063

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05077	Alkalinity, Total as CaCO3	mg/L					499	50.9	45.0 to 55.0			7.27	10.0
BC05066	Nitrogen, Nitrate/Nitrite	mg/L as N	0.07	0.200	2.00	2.06	0.087	1.88	1.80 to 2.20	103	90.0 to 110	0.00	15.0
BC05066	Solids, Dissolved	mg/L	0.0000	25.0			1090	50.0	40.0 to 60.0			2.71	10.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-20HS

**Location Code:** WMWMILAP  
**Collected:** 3/9/22 10:30  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05064

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	3/17/22 10:40	3/22/22 10:22		1.015	0.491	mg/L	0.030000	0.1015	
* Calcium, Total	3/17/22 10:40	3/22/22 11:58		10.15	115	mg/L	0.70035	4.06	
* Iron, Total	3/17/22 10:40	3/22/22 11:58		10.15	7.60	mg/L	0.08120	0.406	
* Lithium, Total	3/17/22 10:40	3/22/22 10:22		1.015	0.0594	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/17/22 10:40	3/22/22 10:22		1.015	36.4	mg/L	0.021315	0.406	
Silica, Total (calc.)	3/17/22 10:40	3/22/22 10:22		1	30.8	mg/L			
Silicon, Total	3/17/22 10:40	3/22/22 10:22		1.015	14.4	mg/L	0.02030	0.25375	
* Sodium, Total	3/17/22 10:40	3/22/22 11:58		10.15	41.0	mg/L	0.3045	4.06	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	3/17/22 14:16	3/23/22 10:01		1.015	0.496	mg/L	0.030000	0.1015	
* Calcium, Dissolved	3/17/22 14:16	3/23/22 11:39		10.15	122	mg/L	0.70035	4.06	
* Iron, Dissolved	3/17/22 14:16	3/23/22 12:48		10.15	8.25	mg/L	0.08120	0.406	
* Lithium, Dissolved	3/17/22 14:16	3/23/22 10:01		1.015	0.0573	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	3/17/22 14:16	3/23/22 10:01		1.015	35.8	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	3/17/22 14:16	3/23/22 10:01		1	31.2	mg/L			
Silicon, Dissolved	3/17/22 14:16	3/23/22 10:01		1.015	14.6	mg/L	0.02030	0.25375	
* Sodium, Dissolved	3/17/22 14:16	3/23/22 11:39		10.15	41.5	mg/L	0.3045	4.06	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	3/11/22 11:09	3/11/22 19:12		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/11/22 11:09	3/11/22 19:12		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	3/11/22 11:09	3/11/22 19:12		1.015	0.000305	mg/L	0.000081	0.000203	
* Barium, Total	3/11/22 11:09	3/11/22 19:12		1.015	0.0263	mg/L	0.000102	0.000203	
* Beryllium, Total	3/11/22 11:09	3/11/22 19:12		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/11/22 11:09	3/11/22 19:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/11/22 11:09	3/11/22 19:12		1.015	0.000220	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/11/22 11:09	3/11/22 19:12		1.015	0.000831	mg/L	0.000068	0.000203	
* Lead, Total	3/11/22 11:09	3/11/22 19:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/11/22 11:09	3/11/22 19:12		1.015	0.465	mg/L	0.000152	0.000203	
* Molybdenum, Total	3/11/22 11:09	3/11/22 19:12		1.015	0.000371	mg/L	0.000102	0.000203	
* Potassium, Total	3/11/22 11:09	3/11/22 19:12		1.015	1.29	mg/L	0.169505	0.5075	

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.



# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-20HS

**Location Code:** WMWMILAP  
**Collected:** 3/9/22 10:30  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05064

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/11/22 11:09	3/11/22 19:12		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/11/22 11:09	3/11/22 19:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	3/11/22 13:40	3/11/22 15:29		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/11/22 13:40	3/11/22 15:29		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/11/22 13:40	3/11/22 15:29		1.015	0.000229	mg/L	0.000081	0.000203	
* Barium, Dissolved	3/11/22 13:40	3/11/22 15:29		1.015	0.0269	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/11/22 13:40	3/11/22 15:29		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/11/22 13:40	3/11/22 15:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/11/22 13:40	3/11/22 15:29		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	3/11/22 13:40	3/11/22 15:29		1.015	0.000904	mg/L	0.000068	0.000203	
* Lead, Dissolved	3/11/22 13:40	3/11/22 15:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/11/22 13:40	3/11/22 15:29		1.015	0.487	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/11/22 13:40	3/11/22 15:29		1.015	0.000315	mg/L	0.000102	0.000203	
* Potassium, Dissolved	3/11/22 13:40	3/11/22 15:29		1.015	1.44	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/11/22 13:40	3/11/22 15:29		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/11/22 13:40	3/11/22 15:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	3/10/22 17:58	3/10/22 23:07		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	3/17/22 12:52	3/17/22 12:52		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity, Total as CaCO3	3/14/22 10:15	3/14/22 15:35		1	76.7	mg/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	3/11/22 10:40	3/14/22 13:47		1	688	mg/L		50	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
Bicarbonate Alkalinity, (calc.)	3/14/22 10:15	3/14/22 15:35		1	76.5	mg/L			A
Carbonate Alkalinity, (calc.)	3/14/22 10:15	3/14/22 15:35		1	0.14	mg/L			A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/15/22 18:14	3/15/22 18:14		1	1.13	mg/L	1.00	2	J

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-20HS

**Location Code:** WMWMILAP  
**Collected:** 3/9/22 10:30  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05064

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/11/22 11:48	3/11/22 11:48		2	33.8	mg/L	1.00	2	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 09:12	3/22/22 09:12		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/23/22 14:40	3/23/22 14:40		25	398	mg/L	15.0	50	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	3/9/22 10:27	3/9/22 10:27			945.50	uS/cm			FA
pH	3/9/22 10:27	3/9/22 10:27			6.71	SU			FA
Temperature	3/9/22 10:27	3/9/22 10:27			16.45	C			FA
Turbidity	3/9/22 10:27	3/9/22 10:27			0.58	NTU			FA

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/9/22 10:30  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-20HS

**Laboratory ID Number:** BC05064

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BC05067	Aluminum, Dissolved	mg/L	-0.000823	0.010	0.100	0.101	0.102	0.109	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC05066	Aluminum, Total	mg/L	-0.000102	0.010	0.100	0.104	0.103	0.102	0.0850 to 0.115	92.3	70.0 to 130	0.966	20.0
BC05067	Antimony, Dissolved	mg/L	0.000222	0.00100	0.100	0.0910	0.0932	0.0932	0.0850 to 0.115	91.0	70.0 to 130	2.39	20.0
BC05066	Antimony, Total	mg/L	0.000398	0.00100	0.100	0.0972	0.0983	0.0938	0.0850 to 0.115	97.2	70.0 to 130	1.13	20.0
BC05067	Arsenic, Dissolved	mg/L	0.0000046	0.000176	0.100	0.0968	0.0970	0.101	0.0850 to 0.115	96.0	70.0 to 130	0.206	20.0
BC05066	Arsenic, Total	mg/L	-0.0000174	0.000176	0.100	0.0968	0.0983	0.102	0.0850 to 0.115	95.9	70.0 to 130	1.54	20.0
BC05067	Barium, Dissolved	mg/L	0.0000160	0.000200	0.100	0.108	0.109	0.100	0.0850 to 0.115	91.4	70.0 to 130	0.922	20.0
BC05066	Barium, Total	mg/L	-0.0000079	0.000200	0.100	0.119	0.118	0.0979	0.0850 to 0.115	94.5	70.0 to 130	0.844	20.0
BC05067	Beryllium, Dissolved	mg/L	0.0000178	0.000880	0.100	0.0952	0.0973	0.109	0.0850 to 0.115	95.2	70.0 to 130	2.18	20.0
BC05066	Beryllium, Total	mg/L	0.0000199	0.000880	0.100	0.0889	0.0902	0.0937	0.0850 to 0.115	88.9	70.0 to 130	1.45	20.0
BC05067	Boron, Dissolved	mg/L	-0.000193	0.0650	1.00	1.18	1.15	1.02	0.850 to 1.15	106	70.0 to 130	2.58	20.0
BC05066	Boron, Total	mg/L	0.000004	0.0650	1.00	1.76	1.73	0.978	0.850 to 1.15	100	70.0 to 130	1.72	20.0
BC05067	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0928	0.0945	0.0989	0.0850 to 0.115	92.8	70.0 to 130	1.82	20.0
BC05066	Cadmium, Total	mg/L	0.0000059	0.000147	0.100	0.0920	0.0908	0.100	0.0850 to 0.115	92.0	70.0 to 130	1.31	20.0
BC05067	Calcium, Dissolved	mg/L	-0.0163	0.152	5.00	108	105	4.87	4.25 to 5.75	100	70.0 to 130	2.82	20.0
BC05066	Calcium, Total	mg/L	-0.00894	0.152	5.00	200	203	4.88	4.25 to 5.75	180	70.0 to 130	1.49	20.0
BC05066	Chloride	mg/L	-0.0169	1.00	40.0	68.2	68.4	9.80	9.00 to 11.0	102	80.0 to 120	0.293	20.0
BC05067	Chromium, Dissolved	mg/L	-0.000106	0.000440	0.100	0.0926	0.0952	0.102	0.0850 to 0.115	92.6	70.0 to 130	2.77	20.0
BC05066	Chromium, Total	mg/L	0.0000215	0.000440	0.100	0.0934	0.0922	0.100	0.0850 to 0.115	93.2	70.0 to 130	1.29	20.0
BC05067	Cobalt, Dissolved	mg/L	-0.0000005	0.000147	0.100	0.0938	0.0964	0.104	0.0850 to 0.115	93.7	70.0 to 130	2.73	20.0
BC05066	Cobalt, Total	mg/L	0.0000085	0.000147	0.100	0.0966	0.0969	0.104	0.0850 to 0.115	95.8	70.0 to 130	0.310	20.0
BC05066	Fluoride	mg/L	-0.0438	0.125	2.50	2.90	3.03	2.69	2.25 to 2.75	103	80.0 to 120	4.38	20.0
BC05067	Iron, Dissolved	mg/L	-0.000384	0.0176	0.2	4.29	4.21	0.199	0.170 to 0.230	135	70.0 to 130	1.88	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/9/22 10:30  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-20HS

**Laboratory ID Number:** BC05064

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05066	Iron, Total	mg/L	-0.000562	0.0176	0.2	5.00	4.90	0.199	0.170 to 0.230	150	70.0 to 130	2.02	20.0
BC05067	Lead, Dissolved	mg/L	0.0000104	0.000147	0.100	0.0956	0.0979	0.101	0.0850 to 0.115	95.6	70.0 to 130	2.38	20.0
BC05066	Lead, Total	mg/L	0.0000118	0.000147	0.100	0.0984	0.0974	0.0985	0.0850 to 0.115	98.4	70.0 to 130	1.02	20.0
BC05067	Lithium, Dissolved	mg/L	-0.000318	0.0154	0.200	0.238	0.238	0.200	0.170 to 0.230	99.2	70.0 to 130	0.00	20.0
BC05066	Lithium, Total	mg/L	-0.000138	0.0154	0.200	0.424	0.419	0.201	0.170 to 0.230	104	70.0 to 130	1.19	20.0
BC05067	Magnesium, Dissolved	mg/L	-0.00178	0.0462	5.00	57.1	55.9	5.10	4.25 to 5.75	86.0	70.0 to 130	2.12	20.0
BC05066	Magnesium, Total	mg/L	0.00188	0.0462	5.00	49.6	48.2	5.16	4.25 to 5.75	116	70.0 to 130	2.86	20.0
BC05067	Manganese, Dissolved	mg/L	0.0000035	0.0002	0.100	0.584	0.591	0.104	0.0850 to 0.115	67.0	70.0 to 130	1.19	20.0
BC05066	Manganese, Total	mg/L	-0.0000019	0.0002	0.100	1.25	1.26	0.101	0.0850 to 0.115	70.0	70.0 to 130	0.797	20.0
BC05066	Mercury, Total by CVAA	mg/L	-3.000E-05	0.000500	0.004	0.00402	0.00405	0.0038	0.00340 to 0.00460	100	70.0 to 130	0.743	20.0
BC05067	Molybdenum, Dissolved	mg/L	0.0000115	0.0002	0.100	0.0924	0.0981	0.0998	0.0850 to 0.115	92.2	70.0 to 130	5.98	20.0
BC05066	Molybdenum, Total	mg/L	0.0000253	0.0002	0.100	0.153	0.159	0.0993	0.0850 to 0.115	90.9	70.0 to 130	3.85	20.0
BC05067	Potassium, Dissolved	mg/L	0.0220	0.367	10.0	12.3	12.6	10.7	8.50 to 11.5	99.0	70.0 to 130	2.41	20.0
BC05066	Potassium, Total	mg/L	0.0236	0.367	10.0	13.9	14.0	9.94	8.50 to 11.5	91.4	70.0 to 130	0.717	20.0
BC05067	Selenium, Dissolved	mg/L	0.0000682	0.00100	0.100	0.0957	0.0996	0.102	0.0850 to 0.115	95.7	70.0 to 130	3.99	20.0
BC05066	Selenium, Total	mg/L	-0.000353	0.00100	0.100	0.0949	0.0968	0.103	0.0850 to 0.115	94.9	70.0 to 130	1.98	20.0
BC05067	Silicon, Dissolved	mg/L	-0.000427	0.0440	1.00	14.8	14.7	1.02	0.850 to 1.15	120	70.0 to 130	0.678	20.0
BC05066	Silicon, Total	mg/L	0.00024	0.0440	1.00	5.87	5.77	1.01	0.850 to 1.15	93.0	70.0 to 130	1.72	20.0
BC05067	Sodium, Dissolved	mg/L	0.000048	0.0660	5.00	35.6	36.0	5.02	4.25 to 5.75	92.0	70.0 to 130	1.12	20.0
BC05066	Sodium, Total	mg/L	0.000363	0.0660	5.00	107	102	5.04	4.25 to 5.75	100	70.0 to 130	4.78	20.0
BC05066	Sulfate	mg/L	0.285	2.0	1000	1820	1800	20.0	18.0 to 22.0	104	80.0 to 120	1.10	20.0
BC05067	Thallium, Dissolved	mg/L	0.0000019	0.000147	0.100	0.0980	0.0998	0.100	0.0850 to 0.115	98.0	70.0 to 130	1.82	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/9/22 10:30  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-20HS

**Laboratory ID Number:** BC05064

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05066	Thallium, Total	mg/L	0.0000115	0.000147	0.100	0.0979	0.0986	0.0978	0.0850 to 0.115	97.9	70.0 to 130	0.712	20.0
BC05066	Total Organic Carbon	mg/L	0.320	1.00	10.0	11.8	11.7	9.88		101	80.0 to 120	0.851	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

## Batch QC Summary

**Customer Account:** WMWMILAP

**Sample Date:** 3/9/22 10:30

**Customer ID:**

**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-20HS

**Laboratory ID Number:** BC05064

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05077	Alkalinity, Total as CaCO3	mg/L					499	50.9	45.0 to 55.0			7.27	10.0
BC05066	Nitrogen, Nitrate/Nitrite	mg/L as N	0.07	0.200	2.00	2.06	0.087	1.88	1.80 to 2.20	103	90.0 to 110	0.00	15.0
BC05066	Solids, Dissolved	mg/L	0.0000	25.0			1090	50.0	40.0 to 60.0			2.71	10.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-20HS DUP

**Location Code:** WMWMILAP  
**Collected:** 3/9/22 10:30  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05065

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	3/17/22 10:40	3/22/22 10:24		1.015	0.499	mg/L	0.030000	0.1015	
* Calcium, Total	3/17/22 10:40	3/22/22 12:00		10.15	114	mg/L	0.70035	4.06	
* Iron, Total	3/17/22 10:40	3/22/22 12:00		10.15	7.56	mg/L	0.08120	0.406	
* Lithium, Total	3/17/22 10:40	3/22/22 10:24		1.015	0.0589	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/17/22 10:40	3/22/22 10:24		1.015	35.9	mg/L	0.021315	0.406	
Silica, Total (calc.)	3/17/22 10:40	3/22/22 10:24		1	31.5	mg/L			
Silicon, Total	3/17/22 10:40	3/22/22 10:24		1.015	14.7	mg/L	0.02030	0.25375	
* Sodium, Total	3/17/22 10:40	3/22/22 12:00		10.15	41.3	mg/L	0.3045	4.06	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	3/17/22 14:16	3/23/22 10:02		1.015	0.500	mg/L	0.030000	0.1015	
* Calcium, Dissolved	3/17/22 14:16	3/23/22 11:41		10.15	117	mg/L	0.70035	4.06	
* Iron, Dissolved	3/17/22 14:16	3/23/22 11:41		10.15	7.65	mg/L	0.08120	0.406	
* Lithium, Dissolved	3/17/22 14:16	3/23/22 10:02		1.015	0.0579	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	3/17/22 14:16	3/23/22 10:02		1.015	36.2	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	3/17/22 14:16	3/23/22 10:02		1	31.5	mg/L			
Silicon, Dissolved	3/17/22 14:16	3/23/22 10:02		1.015	14.7	mg/L	0.02030	0.25375	
* Sodium, Dissolved	3/17/22 14:16	3/23/22 11:41		10.15	39.7	mg/L	0.3045	4.06	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	3/11/22 11:09	3/11/22 19:15		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/11/22 11:09	3/11/22 19:15		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	3/11/22 11:09	3/11/22 19:15		1.015	0.000215	mg/L	0.000081	0.000203	
* Barium, Total	3/11/22 11:09	3/11/22 19:15		1.015	0.0265	mg/L	0.000102	0.000203	
* Beryllium, Total	3/11/22 11:09	3/11/22 19:15		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/11/22 11:09	3/11/22 19:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/11/22 11:09	3/11/22 19:15		1.015	0.000240	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/11/22 11:09	3/11/22 19:15		1.015	0.000807	mg/L	0.000068	0.000203	
* Lead, Total	3/11/22 11:09	3/11/22 19:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/11/22 11:09	3/11/22 19:15		1.015	0.465	mg/L	0.000152	0.000203	
* Molybdenum, Total	3/11/22 11:09	3/11/22 19:15		1.015	0.000429	mg/L	0.000102	0.000203	
* Potassium, Total	3/11/22 11:09	3/11/22 19:15		1.015	1.28	mg/L	0.169505	0.5075	

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-20HS DUP

**Location Code:** WMWMILAP  
**Collected:** 3/9/22 10:30  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05065

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/11/22 11:09	3/11/22 19:15		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/11/22 11:09	3/11/22 19:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	3/11/22 13:40	3/11/22 15:33		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/11/22 13:40	3/11/22 15:33		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/11/22 13:40	3/11/22 15:33		1.015	0.000204	mg/L	0.000081	0.000203	
* Barium, Dissolved	3/11/22 13:40	3/11/22 15:33		1.015	0.0262	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/11/22 13:40	3/11/22 15:33		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/11/22 13:40	3/11/22 15:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/11/22 13:40	3/11/22 15:33		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	3/11/22 13:40	3/11/22 15:33		1.015	0.000834	mg/L	0.000068	0.000203	
* Lead, Dissolved	3/11/22 13:40	3/11/22 15:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/11/22 13:40	3/11/22 15:33		1.015	0.462	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/11/22 13:40	3/11/22 15:33		1.015	0.000301	mg/L	0.000102	0.000203	
* Potassium, Dissolved	3/11/22 13:40	3/11/22 15:33		1.015	1.38	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/11/22 13:40	3/11/22 15:33		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/11/22 13:40	3/11/22 15:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	3/10/22 17:58	3/10/22 23:10		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	3/17/22 12:54	3/17/22 12:54		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity, Total as CaCO3	3/14/22 10:15	3/14/22 15:35		1	74.2	mg/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	3/11/22 10:40	3/14/22 13:47		1	692	mg/L		50	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
Bicarbonate Alkalinity, (calc.)	3/14/22 10:15	3/14/22 15:35		1	74.0	mg/L			A
Carbonate Alkalinity, (calc.)	3/14/22 10:15	3/14/22 15:35		1	0.18	mg/L			A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/15/22 18:31	3/15/22 18:31		1	1.11	mg/L	1.00	2	J

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.



# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-20HS DUP

**Location Code:** WMWMILAP  
**Collected:** 3/9/22 10:30  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05065

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/11/22 11:49	3/11/22 11:49		2	32.6	mg/L	1.00	2	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 09:14	3/22/22 09:14		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/23/22 14:41	3/23/22 14:41		25	402	mg/L	15.0	50	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	3/9/22 10:27	3/9/22 10:27			945.50	uS/cm			FA
pH	3/9/22 10:27	3/9/22 10:27			6.71	SU			FA
Temperature	3/9/22 10:27	3/9/22 10:27			16.45	C			FA
Turbidity	3/9/22 10:27	3/9/22 10:27			0.58	NTU			FA

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/9/22 10:30  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-20HS DUP

**Laboratory ID Number:** BC05065

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05067	Aluminum, Dissolved	mg/L	-0.000823	0.010	0.100	0.101	0.102	0.109	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC05066	Aluminum, Total	mg/L	-0.000102	0.010	0.100	0.104	0.103	0.102	0.0850 to 0.115	92.3	70.0 to 130	0.966	20.0
BC05067	Antimony, Dissolved	mg/L	0.000222	0.00100	0.100	0.0910	0.0932	0.0932	0.0850 to 0.115	91.0	70.0 to 130	2.39	20.0
BC05066	Antimony, Total	mg/L	0.000398	0.00100	0.100	0.0972	0.0983	0.0938	0.0850 to 0.115	97.2	70.0 to 130	1.13	20.0
BC05067	Arsenic, Dissolved	mg/L	0.0000046	0.000176	0.100	0.0968	0.0970	0.101	0.0850 to 0.115	96.0	70.0 to 130	0.206	20.0
BC05066	Arsenic, Total	mg/L	-0.0000174	0.000176	0.100	0.0968	0.0983	0.102	0.0850 to 0.115	95.9	70.0 to 130	1.54	20.0
BC05067	Barium, Dissolved	mg/L	0.0000160	0.000200	0.100	0.108	0.109	0.100	0.0850 to 0.115	91.4	70.0 to 130	0.922	20.0
BC05066	Barium, Total	mg/L	-0.0000079	0.000200	0.100	0.119	0.118	0.0979	0.0850 to 0.115	94.5	70.0 to 130	0.844	20.0
BC05067	Beryllium, Dissolved	mg/L	0.0000178	0.000880	0.100	0.0952	0.0973	0.109	0.0850 to 0.115	95.2	70.0 to 130	2.18	20.0
BC05066	Beryllium, Total	mg/L	0.0000199	0.000880	0.100	0.0889	0.0902	0.0937	0.0850 to 0.115	88.9	70.0 to 130	1.45	20.0
BC05067	Boron, Dissolved	mg/L	-0.000193	0.0650	1.00	1.18	1.15	1.02	0.850 to 1.15	106	70.0 to 130	2.58	20.0
BC05066	Boron, Total	mg/L	0.000004	0.0650	1.00	1.76	1.73	0.978	0.850 to 1.15	100	70.0 to 130	1.72	20.0
BC05067	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0928	0.0945	0.0989	0.0850 to 0.115	92.8	70.0 to 130	1.82	20.0
BC05066	Cadmium, Total	mg/L	0.0000059	0.000147	0.100	0.0920	0.0908	0.100	0.0850 to 0.115	92.0	70.0 to 130	1.31	20.0
BC05067	Calcium, Dissolved	mg/L	-0.0163	0.152	5.00	108	105	4.87	4.25 to 5.75	100	70.0 to 130	2.82	20.0
BC05066	Calcium, Total	mg/L	-0.00894	0.152	5.00	200	203	4.88	4.25 to 5.75	180	70.0 to 130	1.49	20.0
BC05066	Chloride	mg/L	-0.0169	1.00	40.0	68.2	68.4	9.80	9.00 to 11.0	102	80.0 to 120	0.293	20.0
BC05067	Chromium, Dissolved	mg/L	-0.000106	0.000440	0.100	0.0926	0.0952	0.102	0.0850 to 0.115	92.6	70.0 to 130	2.77	20.0
BC05066	Chromium, Total	mg/L	0.0000215	0.000440	0.100	0.0934	0.0922	0.100	0.0850 to 0.115	93.2	70.0 to 130	1.29	20.0
BC05067	Cobalt, Dissolved	mg/L	-0.0000005	0.000147	0.100	0.0938	0.0964	0.104	0.0850 to 0.115	93.7	70.0 to 130	2.73	20.0
BC05066	Cobalt, Total	mg/L	0.0000085	0.000147	0.100	0.0966	0.0969	0.104	0.0850 to 0.115	95.8	70.0 to 130	0.310	20.0
BC05066	Fluoride	mg/L	-0.0438	0.125	2.50	2.90	3.03	2.69	2.25 to 2.75	103	80.0 to 120	4.38	20.0
BC05067	Iron, Dissolved	mg/L	-0.000384	0.0176	0.2	4.29	4.21	0.199	0.170 to 0.230	135	70.0 to 130	1.88	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/9/22 10:30  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-20HS DUP

**Laboratory ID Number:** BC05065

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05066	Iron, Total	mg/L	-0.000562	0.0176	0.2	5.00	4.90	0.199	0.170 to 0.230	150	70.0 to 130	2.02	20.0
BC05067	Lead, Dissolved	mg/L	0.0000104	0.000147	0.100	0.0956	0.0979	0.101	0.0850 to 0.115	95.6	70.0 to 130	2.38	20.0
BC05066	Lead, Total	mg/L	0.0000118	0.000147	0.100	0.0984	0.0974	0.0985	0.0850 to 0.115	98.4	70.0 to 130	1.02	20.0
BC05067	Lithium, Dissolved	mg/L	-0.000318	0.0154	0.200	0.238	0.238	0.200	0.170 to 0.230	99.2	70.0 to 130	0.00	20.0
BC05066	Lithium, Total	mg/L	-0.000138	0.0154	0.200	0.424	0.419	0.201	0.170 to 0.230	104	70.0 to 130	1.19	20.0
BC05067	Magnesium, Dissolved	mg/L	-0.00178	0.0462	5.00	57.1	55.9	5.10	4.25 to 5.75	86.0	70.0 to 130	2.12	20.0
BC05066	Magnesium, Total	mg/L	0.00188	0.0462	5.00	49.6	48.2	5.16	4.25 to 5.75	116	70.0 to 130	2.86	20.0
BC05067	Manganese, Dissolved	mg/L	0.0000035	0.0002	0.100	0.584	0.591	0.104	0.0850 to 0.115	67.0	70.0 to 130	1.19	20.0
BC05066	Manganese, Total	mg/L	-0.0000019	0.0002	0.100	1.25	1.26	0.101	0.0850 to 0.115	70.0	70.0 to 130	0.797	20.0
BC05066	Mercury, Total by CVAA	mg/L	-3.000E-05	0.000500	0.004	0.00402	0.00405	0.0038	0.00340 to 0.00460	100	70.0 to 130	0.743	20.0
BC05067	Molybdenum, Dissolved	mg/L	0.0000115	0.0002	0.100	0.0924	0.0981	0.0998	0.0850 to 0.115	92.2	70.0 to 130	5.98	20.0
BC05066	Molybdenum, Total	mg/L	0.0000253	0.0002	0.100	0.153	0.159	0.0993	0.0850 to 0.115	90.9	70.0 to 130	3.85	20.0
BC05067	Potassium, Dissolved	mg/L	0.0220	0.367	10.0	12.3	12.6	10.7	8.50 to 11.5	99.0	70.0 to 130	2.41	20.0
BC05066	Potassium, Total	mg/L	0.0236	0.367	10.0	13.9	14.0	9.94	8.50 to 11.5	91.4	70.0 to 130	0.717	20.0
BC05067	Selenium, Dissolved	mg/L	0.0000682	0.00100	0.100	0.0957	0.0996	0.102	0.0850 to 0.115	95.7	70.0 to 130	3.99	20.0
BC05066	Selenium, Total	mg/L	-0.000353	0.00100	0.100	0.0949	0.0968	0.103	0.0850 to 0.115	94.9	70.0 to 130	1.98	20.0
BC05067	Silicon, Dissolved	mg/L	-0.000427	0.0440	1.00	14.8	14.7	1.02	0.850 to 1.15	120	70.0 to 130	0.678	20.0
BC05066	Silicon, Total	mg/L	0.00024	0.0440	1.00	5.87	5.77	1.01	0.850 to 1.15	93.0	70.0 to 130	1.72	20.0
BC05067	Sodium, Dissolved	mg/L	0.000048	0.0660	5.00	35.6	36.0	5.02	4.25 to 5.75	92.0	70.0 to 130	1.12	20.0
BC05066	Sodium, Total	mg/L	0.000363	0.0660	5.00	107	102	5.04	4.25 to 5.75	100	70.0 to 130	4.78	20.0
BC05066	Sulfate	mg/L	0.285	2.0	1000	1820	1800	20.0	18.0 to 22.0	104	80.0 to 120	1.10	20.0
BC05067	Thallium, Dissolved	mg/L	0.0000019	0.000147	0.100	0.0980	0.0998	0.100	0.0850 to 0.115	98.0	70.0 to 130	1.82	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/9/22 10:30  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-20HS DUP

**Laboratory ID Number:** BC05065

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05066	Thallium, Total	mg/L	0.0000115	0.000147	0.100	0.0979	0.0986	0.0978	0.0850 to 0.115	97.9	70.0 to 130	0.712	20.0
BC05066	Total Organic Carbon	mg/L	0.320	1.00	10.0	11.8	11.7	9.88		101	80.0 to 120	0.851	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

## Batch QC Summary

**Customer Account:** WMWMILAP

**Sample Date:** 3/9/22 10:30

**Customer ID:**

**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-20HS DUP

**Laboratory ID Number:** BC05065

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05077	Alkalinity, Total as CaCO3	mg/L					499	50.9	45.0 to 55.0			7.27	10.0
BC05066	Nitrogen, Nitrate/Nitrite	mg/L as N	0.07	0.200	2.00	2.06	0.087	1.88	1.80 to 2.20	103	90.0 to 110	0.00	15.0
BC05066	Solids, Dissolved	mg/L	0.0000	25.0			1090	50.0	40.0 to 60.0			2.71	10.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-20H

**Location Code:** WMWMILAP  
**Collected:** 3/9/22 12:23  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05066

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	3/17/22 10:40	3/22/22 10:26		1.015	0.759	mg/L	0.030000	0.1015		
* Calcium, Total	3/17/22 10:40	3/22/22 12:02		10.15	191	mg/L	0.70035	4.06	RA	
* Iron, Total	3/17/22 10:40	3/22/22 12:02		10.15	4.70	mg/L	0.08120	0.406	RA	
* Lithium, Total	3/17/22 10:40	3/22/22 10:26		1.015	0.217	mg/L	0.007105	0.01999956		
* Magnesium, Total	3/17/22 10:40	3/22/22 12:02		10.15	43.8	mg/L	0.21315	4.06		
Silica, Total (calc.)	3/17/22 10:40	3/22/22 10:26		1	10.6	mg/L				
Silicon, Total	3/17/22 10:40	3/22/22 10:26		1.015	4.94	mg/L	0.02030	0.25375		
* Sodium, Total	3/17/22 10:40	3/22/22 12:02		10.15	102	mg/L	0.3045	4.06	RA	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Dissolved	3/17/22 14:16	3/23/22 10:04		1.015	0.763	mg/L	0.030000	0.1015		
* Calcium, Dissolved	3/17/22 14:16	3/23/22 11:42		10.15	206	mg/L	0.70035	4.06		
* Iron, Dissolved	3/17/22 14:16	3/23/22 11:42		10.15	4.71	mg/L	0.08120	0.406		
* Lithium, Dissolved	3/17/22 14:16	3/23/22 10:04		1.015	0.214	mg/L	0.007105	0.01999956		
* Magnesium, Dissolved	3/17/22 14:16	3/23/22 11:42		10.15	43.1	mg/L	0.21315	4.06		
Silica, Dissolved (calc.)	3/17/22 14:16	3/23/22 10:04		1	10.5	mg/L				
Silicon, Dissolved	3/17/22 14:16	3/23/22 10:04		1.015	4.92	mg/L	0.02030	0.25375		
* Sodium, Dissolved	3/17/22 14:16	3/23/22 11:42		10.15	101	mg/L	0.3045	4.06		
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	3/11/22 11:09	3/11/22 19:19		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	3/11/22 11:09	3/11/22 19:19		1.015	0.0117	mg/L	0.006090	0.01015		
* Arsenic, Total	3/11/22 11:09	3/11/22 19:19		1.015	0.000874	mg/L	0.000081	0.000203		
* Barium, Total	3/11/22 11:09	3/11/22 19:19		1.015	0.0245	mg/L	0.000102	0.000203		
* Beryllium, Total	3/11/22 11:09	3/11/22 19:19		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	3/11/22 11:09	3/11/22 19:19		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	3/11/22 11:09	3/11/22 19:19		1.015	0.000205	mg/L	0.000203	0.001015	J	
* Cobalt, Total	3/11/22 11:09	3/11/22 19:19		1.015	0.000813	mg/L	0.000068	0.000203		
* Lead, Total	3/11/22 11:09	3/11/22 19:19		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	3/11/22 11:09	3/11/22 19:19		1.015	1.18	mg/L	0.000152	0.000203		
* Molybdenum, Total	3/11/22 11:09	3/11/22 19:19		1.015	0.0621	mg/L	0.000102	0.000203		
* Potassium, Total	3/11/22 11:09	3/11/22 19:19		1.015	4.76	mg/L	0.169505	0.5075		

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-20H

**Location Code:** WMWMLAP  
**Collected:** 3/9/22 12:23  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05066

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/11/22 11:09	3/11/22 19:19		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/11/22 11:09	3/11/22 19:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	3/11/22 13:40	3/11/22 15:37		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/11/22 13:40	3/11/22 15:37		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/11/22 13:40	3/11/22 15:37		1.015	0.000972	mg/L	0.000081	0.000203	
* Barium, Dissolved	3/11/22 13:40	3/11/22 15:37		1.015	0.0254	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/11/22 13:40	3/11/22 15:37		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/11/22 13:40	3/11/22 15:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/11/22 13:40	3/11/22 15:37		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	3/11/22 13:40	3/11/22 15:37		1.015	0.000735	mg/L	0.000068	0.000203	
* Lead, Dissolved	3/11/22 13:40	3/11/22 15:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/11/22 13:40	3/11/22 15:37		1.015	1.17	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/11/22 13:40	3/11/22 15:37		1.015	0.0608	mg/L	0.000102	0.000203	
* Potassium, Dissolved	3/11/22 13:40	3/11/22 15:37		1.015	5.26	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/11/22 13:40	3/11/22 15:37		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/11/22 13:40	3/11/22 15:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	3/10/22 17:58	3/10/22 23:14		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	3/17/22 12:56	3/17/22 12:56		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity, Total as CaCO3	3/14/22 10:15	3/14/22 15:35		1	113	mg/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	3/11/22 10:40	3/14/22 13:47		1	1120	mg/L		75.8	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
Bicarbonate Alkalinity, (calc.)	3/14/22 10:15	3/14/22 15:35		1	112	mg/L			A
Carbonate Alkalinity, (calc.)	3/14/22 10:15	3/14/22 15:35		1	0.52	mg/L			A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/15/22 18:46	3/15/22 18:46		1	1.73	mg/L	1.00	2	J

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-20H

**Location Code:** WMWMILAP  
**Collected:** 3/9/22 12:23  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05066

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/11/22 11:50	3/11/22 11:50		4	27.6	mg/L	2.00	4	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 09:15	3/22/22 09:15		1	0.329	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/23/22 14:42	3/23/22 14:42		50	785	mg/L	30.0	100	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	3/9/22 12:20	3/9/22 12:20			1514.71	uS/cm			FA
pH	3/9/22 12:20	3/9/22 12:20			7.38	SU			FA
Temperature	3/9/22 12:20	3/9/22 12:20			15.65	C			FA
Turbidity	3/9/22 12:20	3/9/22 12:20			0.87	NTU			FA

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.



# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/9/22 12:23  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-20H

**Laboratory ID Number:** BC05066

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BC05067	Aluminum, Dissolved	mg/L	-0.000823	0.010	0.100	0.101	0.102	0.109	0.0850 to 0.115	101	70.0 to 130	0.985	20.0	
BC05066	Aluminum, Total	mg/L	-0.000102	0.010	0.100	0.104	0.103	0.102	0.0850 to 0.115	92.3	70.0 to 130	0.966	20.0	
BC05067	Antimony, Dissolved	mg/L	0.000222	0.00100	0.100	0.0910	0.0932	0.0932	0.0850 to 0.115	91.0	70.0 to 130	2.39	20.0	
BC05066	Antimony, Total	mg/L	0.000398	0.00100	0.100	0.0972	0.0983	0.0938	0.0850 to 0.115	97.2	70.0 to 130	1.13	20.0	
BC05067	Arsenic, Dissolved	mg/L	0.0000046	0.000176	0.100	0.0968	0.0970	0.101	0.0850 to 0.115	96.0	70.0 to 130	0.206	20.0	
BC05066	Arsenic, Total	mg/L	-0.0000174	0.000176	0.100	0.0968	0.0983	0.102	0.0850 to 0.115	95.9	70.0 to 130	1.54	20.0	
BC05067	Barium, Dissolved	mg/L	0.0000160	0.000200	0.100	0.108	0.109	0.100	0.0850 to 0.115	91.4	70.0 to 130	0.922	20.0	
BC05066	Barium, Total	mg/L	-0.0000079	0.000200	0.100	0.119	0.118	0.0979	0.0850 to 0.115	94.5	70.0 to 130	0.844	20.0	
BC05067	Beryllium, Dissolved	mg/L	0.0000178	0.000880	0.100	0.0952	0.0973	0.109	0.0850 to 0.115	95.2	70.0 to 130	2.18	20.0	
BC05066	Beryllium, Total	mg/L	0.0000199	0.000880	0.100	0.0889	0.0902	0.0937	0.0850 to 0.115	88.9	70.0 to 130	1.45	20.0	
BC05067	Boron, Dissolved	mg/L	-0.000193	0.0650	1.00	1.18	1.15	1.02	0.850 to 1.15	106	70.0 to 130	2.58	20.0	
BC05066	Boron, Total	mg/L	0.000004	0.0650	1.00	1.76	1.73	0.978	0.850 to 1.15	100	70.0 to 130	1.72	20.0	
BC05067	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0928	0.0945	0.0989	0.0850 to 0.115	92.8	70.0 to 130	1.82	20.0	
BC05066	Cadmium, Total	mg/L	0.0000059	0.000147	0.100	0.0920	0.0908	0.100	0.0850 to 0.115	92.0	70.0 to 130	1.31	20.0	
BC05067	Calcium, Dissolved	mg/L	-0.0163	0.152	5.00	108	105	4.87	4.25 to 5.75	100	70.0 to 130	2.82	20.0	
BC05066	Calcium, Total	mg/L	-0.00894	0.152	5.00	200	203	4.88	4.25 to 5.75	180	70.0 to 130	1.49	20.0	
BC05066	Chloride	mg/L	-0.0169	1.00	40.0	68.2	68.4	9.80	9.00 to 11.0	102	80.0 to 120	0.293	20.0	
BC05067	Chromium, Dissolved	mg/L	-0.000106	0.000440	0.100	0.0926	0.0952	0.102	0.0850 to 0.115	92.6	70.0 to 130	2.77	20.0	
BC05066	Chromium, Total	mg/L	0.0000215	0.000440	0.100	0.0934	0.0922	0.100	0.0850 to 0.115	93.2	70.0 to 130	1.29	20.0	
BC05067	Cobalt, Dissolved	mg/L	-0.0000005	0.000147	0.100	0.0938	0.0964	0.104	0.0850 to 0.115	93.7	70.0 to 130	2.73	20.0	
BC05066	Cobalt, Total	mg/L	0.0000085	0.000147	0.100	0.0966	0.0969	0.104	0.0850 to 0.115	95.8	70.0 to 130	0.310	20.0	
BC05066	Fluoride	mg/L	-0.0438	0.125	2.50	2.90	3.03	2.69	2.25 to 2.75	103	80.0 to 120	4.38	20.0	
BC05067	Iron, Dissolved	mg/L	-0.000384	0.0176	0.2	4.29	4.21	0.199	0.170 to 0.230	135	70.0 to 130	1.88	20.0	

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/9/22 12:23  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-20H

**Laboratory ID Number:** BC05066

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05066	Iron, Total	mg/L	-0.000562	0.0176	0.2	5.00	4.90	0.199	0.170 to 0.230	150	70.0 to 130	2.02	20.0
BC05067	Lead, Dissolved	mg/L	0.0000104	0.000147	0.100	0.0956	0.0979	0.101	0.0850 to 0.115	95.6	70.0 to 130	2.38	20.0
BC05066	Lead, Total	mg/L	0.0000118	0.000147	0.100	0.0984	0.0974	0.0985	0.0850 to 0.115	98.4	70.0 to 130	1.02	20.0
BC05067	Lithium, Dissolved	mg/L	-0.000318	0.0154	0.200	0.238	0.238	0.200	0.170 to 0.230	99.2	70.0 to 130	0.00	20.0
BC05066	Lithium, Total	mg/L	-0.000138	0.0154	0.200	0.424	0.419	0.201	0.170 to 0.230	104	70.0 to 130	1.19	20.0
BC05067	Magnesium, Dissolved	mg/L	-0.00178	0.0462	5.00	57.1	55.9	5.10	4.25 to 5.75	86.0	70.0 to 130	2.12	20.0
BC05066	Magnesium, Total	mg/L	0.00188	0.0462	5.00	49.6	48.2	5.16	4.25 to 5.75	116	70.0 to 130	2.86	20.0
BC05067	Manganese, Dissolved	mg/L	0.0000035	0.0002	0.100	0.584	0.591	0.104	0.0850 to 0.115	67.0	70.0 to 130	1.19	20.0
BC05066	Manganese, Total	mg/L	-0.0000019	0.0002	0.100	1.25	1.26	0.101	0.0850 to 0.115	70.0	70.0 to 130	0.797	20.0
BC05066	Mercury, Total by CVAA	mg/L	-3.000E-05	0.000500	0.004	0.00402	0.00405	0.0038	0.00340 to 0.00460	100	70.0 to 130	0.743	20.0
BC05067	Molybdenum, Dissolved	mg/L	0.0000115	0.0002	0.100	0.0924	0.0981	0.0998	0.0850 to 0.115	92.2	70.0 to 130	5.98	20.0
BC05066	Molybdenum, Total	mg/L	0.0000253	0.0002	0.100	0.153	0.159	0.0993	0.0850 to 0.115	90.9	70.0 to 130	3.85	20.0
BC05067	Potassium, Dissolved	mg/L	0.0220	0.367	10.0	12.3	12.6	10.7	8.50 to 11.5	99.0	70.0 to 130	2.41	20.0
BC05066	Potassium, Total	mg/L	0.0236	0.367	10.0	13.9	14.0	9.94	8.50 to 11.5	91.4	70.0 to 130	0.717	20.0
BC05067	Selenium, Dissolved	mg/L	0.0000682	0.00100	0.100	0.0957	0.0996	0.102	0.0850 to 0.115	95.7	70.0 to 130	3.99	20.0
BC05066	Selenium, Total	mg/L	-0.000353	0.00100	0.100	0.0949	0.0968	0.103	0.0850 to 0.115	94.9	70.0 to 130	1.98	20.0
BC05067	Silicon, Dissolved	mg/L	-0.000427	0.0440	1.00	14.8	14.7	1.02	0.850 to 1.15	120	70.0 to 130	0.678	20.0
BC05066	Silicon, Total	mg/L	0.00024	0.0440	1.00	5.87	5.77	1.01	0.850 to 1.15	93.0	70.0 to 130	1.72	20.0
BC05067	Sodium, Dissolved	mg/L	0.000048	0.0660	5.00	35.6	36.0	5.02	4.25 to 5.75	92.0	70.0 to 130	1.12	20.0
BC05066	Sodium, Total	mg/L	0.000363	0.0660	5.00	107	102	5.04	4.25 to 5.75	100	70.0 to 130	4.78	20.0
BC05066	Sulfate	mg/L	0.285	2.0	1000	1820	1800	20.0	18.0 to 22.0	104	80.0 to 120	1.10	20.0
BC05067	Thallium, Dissolved	mg/L	0.0000019	0.000147	0.100	0.0980	0.0998	0.100	0.0850 to 0.115	98.0	70.0 to 130	1.82	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/9/22 12:23  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-20H

**Laboratory ID Number:** BC05066

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05066	Thallium, Total	mg/L	0.0000115	0.000147	0.100	0.0979	0.0986	0.0978	0.0850 to 0.115	97.9	70.0 to 130	0.712	20.0
BC05066	Total Organic Carbon	mg/L	0.320	1.00	10.0	11.8	11.7	9.88		101	80.0 to 120	0.851	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

## Batch QC Summary

**Customer Account:** WMWMILAP

**Sample Date:** 3/9/22 12:23

**Customer ID:**

**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-20H

**Laboratory ID Number:** BC05066

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05077	Alkalinity, Total as CaCO3	mg/L					499	50.9	45.0 to 55.0			7.27	10.0
BC05066	Nitrogen, Nitrate/Nitrite	mg/L as N	0.07	0.200	2.00	2.06	0.087	1.88	1.80 to 2.20	103	90.0 to 110	0.00	15.0
BC05066	Solids, Dissolved	mg/L	0.0000	25.0			1090	50.0	40.0 to 60.0			2.71	10.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-9SR

**Location Code:** WMWMILAP  
**Collected:** 3/8/22 09:39  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05067

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	3/17/22 10:40	3/22/22 10:36		1.015	0.117	mg/L	0.030000	0.1015	
* Calcium, Total	3/17/22 10:40	3/22/22 12:11		10.15	99.1	mg/L	0.70035	4.06	
* Iron, Total	3/17/22 10:40	3/22/22 10:36		1.015	3.75	mg/L	0.008120	0.0406	
* Lithium, Total	3/17/22 10:40	3/22/22 10:36		1.015	0.0400	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/17/22 10:40	3/22/22 12:11		10.15	54.1	mg/L	0.21315	4.06	
Silica, Total (calc.)	3/17/22 10:40	3/22/22 10:36		1	27.8	mg/L			
Silicon, Total	3/17/22 10:40	3/22/22 10:36		1.015	13.0	mg/L	0.02030	0.25375	
* Sodium, Total	3/17/22 10:40	3/22/22 10:36		1.015	31.9	mg/L	0.03045	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	3/17/22 14:16	3/23/22 10:06		1.015	0.124	mg/L	0.030000	0.1015	
* Calcium, Dissolved	3/17/22 14:16	3/23/22 11:44		10.15	103	mg/L	0.70035	4.06	RA
* Iron, Dissolved	3/17/22 14:16	3/23/22 10:06		1.015	4.02	mg/L	0.008120	0.0406	RA
* Lithium, Dissolved	3/17/22 14:16	3/23/22 10:06		1.015	0.0395	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	3/17/22 14:16	3/23/22 11:44		10.15	52.8	mg/L	0.21315	4.06	RA
Silica, Dissolved (calc.)	3/17/22 14:16	3/23/22 10:06		1	29.1	mg/L			
Silicon, Dissolved	3/17/22 14:16	3/23/22 10:06		1.015	13.6	mg/L	0.02030	0.25375	
* Sodium, Dissolved	3/17/22 14:16	3/23/22 10:06		1.015	31.0	mg/L	0.03045	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	3/11/22 11:09	3/11/22 19:41		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/11/22 11:09	3/11/22 19:41		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	3/11/22 11:09	3/11/22 19:41		1.015	0.000786	mg/L	0.000081	0.000203	
* Barium, Total	3/11/22 11:09	3/11/22 19:41		1.015	0.0169	mg/L	0.000102	0.000203	
* Beryllium, Total	3/11/22 11:09	3/11/22 19:41		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/11/22 11:09	3/11/22 19:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/11/22 11:09	3/11/22 19:41		1.015	0.000204	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/11/22 11:09	3/11/22 19:41		1.015	0.000216	mg/L	0.000068	0.000203	
* Lead, Total	3/11/22 11:09	3/11/22 19:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/11/22 11:09	3/11/22 19:41		1.015	0.503	mg/L	0.000152	0.000203	
* Molybdenum, Total	3/11/22 11:09	3/11/22 19:41		1.015	0.000268	mg/L	0.000102	0.000203	
* Potassium, Total	3/11/22 11:09	3/11/22 19:41		1.015	2.39	mg/L	0.169505	0.5075	

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-9SR

**Location Code:** WMWMILAP  
**Collected:** 3/8/22 09:39  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05067

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/11/22 11:09	3/11/22 19:41		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/11/22 11:09	3/11/22 19:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	3/11/22 13:40	3/11/22 15:40		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/11/22 13:40	3/11/22 15:40		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/11/22 13:40	3/11/22 15:40		1.015	0.000798	mg/L	0.000081	0.000203	
* Barium, Dissolved	3/11/22 13:40	3/11/22 15:40		1.015	0.0166	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/11/22 13:40	3/11/22 15:40		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/11/22 13:40	3/11/22 15:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/11/22 13:40	3/11/22 15:40		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	3/11/22 13:40	3/11/22 15:40		1.015	0.000149	mg/L	0.000068	0.000203	J
* Lead, Dissolved	3/11/22 13:40	3/11/22 15:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/11/22 13:40	3/11/22 15:40		1.015	0.517	mg/L	0.000152	0.000203	RA
* Molybdenum, Dissolved	3/11/22 13:40	3/11/22 15:40		1.015	0.000232	mg/L	0.000102	0.000203	
* Potassium, Dissolved	3/11/22 13:40	3/11/22 15:40		1.015	2.40	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/11/22 13:40	3/11/22 15:40		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/11/22 13:40	3/11/22 15:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	3/10/22 17:58	3/10/22 23:42		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	3/17/22 13:05	3/17/22 13:05		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity, Total as CaCO3	3/14/22 10:15	3/14/22 15:35		1	169	mg/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	3/11/22 10:40	3/14/22 13:47		1	614	mg/L		50	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
Bicarbonate Alkalinity, (calc.)	3/14/22 10:15	3/14/22 15:35		1	169	mg/L			A
Carbonate Alkalinity, (calc.)	3/14/22 10:15	3/14/22 15:35		1	0.30	mg/L			A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/15/22 20:05	3/15/22 20:05		1	1.02	mg/L	1.00	2	J

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-9SR

**Location Code:** WMWMILAP  
**Collected:** 3/8/22 09:39  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05067

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/11/22 13:34	3/11/22 13:34		1	8.44	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 09:28	3/22/22 09:28		1	0.125	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/23/22 15:40	3/23/22 15:40		25	349	mg/L	15.0	50	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	3/8/22 09:35	3/8/22 09:35			911.52	uS/cm			FA
pH	3/8/22 09:35	3/8/22 09:35			6.28	SU			FA
Temperature	3/8/22 09:35	3/8/22 09:35			17.08	C			FA
Turbidity	3/8/22 09:35	3/8/22 09:35			4.99	NTU			FA

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/8/22 09:39  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-9SR

**Laboratory ID Number:** BC05067

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec
				Limit					Standard	Limit	Rec	Limit	
BC05067	Aluminum, Dissolved	mg/L	-0.000823	0.010	0.100	0.101	0.102	0.109	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC05076	Aluminum, Total	mg/L	-0.000102	0.010	0.100	0.0979	0.0969	0.102	0.0850 to 0.115	97.9	70.0 to 130	1.03	20.0
BC05067	Antimony, Dissolved	mg/L	0.000222	0.00100	0.100	0.0910	0.0932	0.0932	0.0850 to 0.115	91.0	70.0 to 130	2.39	20.0
BC05076	Antimony, Total	mg/L	0.000398	0.00100	0.100	0.0894	0.0902	0.0938	0.0850 to 0.115	89.4	70.0 to 130	0.891	20.0
BC05067	Arsenic, Dissolved	mg/L	0.0000046	0.000176	0.100	0.0968	0.0970	0.101	0.0850 to 0.115	96.0	70.0 to 130	0.206	20.0
BC05076	Arsenic, Total	mg/L	-0.0000174	0.000176	0.100	0.0988	0.0975	0.102	0.0850 to 0.115	98.8	70.0 to 130	1.32	20.0
BC05067	Barium, Dissolved	mg/L	0.0000160	0.000200	0.100	0.108	0.109	0.100	0.0850 to 0.115	91.4	70.0 to 130	0.922	20.0
BC05076	Barium, Total	mg/L	-0.0000079	0.000200	0.100	0.0948	0.0964	0.0979	0.0850 to 0.115	94.8	70.0 to 130	1.67	20.0
BC05067	Beryllium, Dissolved	mg/L	0.0000178	0.000880	0.100	0.0952	0.0973	0.109	0.0850 to 0.115	95.2	70.0 to 130	2.18	20.0
BC05076	Beryllium, Total	mg/L	0.0000199	0.000880	0.100	0.0890	0.0893	0.0937	0.0850 to 0.115	89.0	70.0 to 130	0.337	20.0
BC05067	Boron, Dissolved	mg/L	-0.000193	0.0650	1.00	1.18	1.15	1.02	0.850 to 1.15	106	70.0 to 130	2.58	20.0
BC05076	Boron, Total	mg/L	0.000004	0.0650	1.00	0.976	0.962	0.978	0.850 to 1.15	97.6	70.0 to 130	1.44	20.0
BC05067	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0928	0.0945	0.0989	0.0850 to 0.115	92.8	70.0 to 130	1.82	20.0
BC05076	Cadmium, Total	mg/L	0.0000059	0.000147	0.100	0.0970	0.0958	0.100	0.0850 to 0.115	97.0	70.0 to 130	1.24	20.0
BC05067	Calcium, Dissolved	mg/L	-0.0163	0.152	5.00	108	105	4.87	4.25 to 5.75	100	70.0 to 130	2.82	20.0
BC05076	Calcium, Total	mg/L	-0.00894	0.152	5.00	4.78	4.62	4.88	4.25 to 5.75	95.6	70.0 to 130	3.40	20.0
BC05076	Chloride	mg/L	-0.00495	1.00	10.0	10.1	9.84	10.1	9.00 to 11.0	101	80.0 to 120	2.61	20.0
BC05067	Chromium, Dissolved	mg/L	-0.000106	0.000440	0.100	0.0926	0.0952	0.102	0.0850 to 0.115	92.6	70.0 to 130	2.77	20.0
BC05076	Chromium, Total	mg/L	0.0000215	0.000440	0.100	0.0964	0.0976	0.100	0.0850 to 0.115	96.2	70.0 to 130	1.24	20.0
BC05067	Cobalt, Dissolved	mg/L	-0.0000005	0.000147	0.100	0.0938	0.0964	0.104	0.0850 to 0.115	93.7	70.0 to 130	2.73	20.0
BC05076	Cobalt, Total	mg/L	0.0000085	0.000147	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC05076	Fluoride	mg/L	-0.0313	0.125	2.50	2.55	2.48	2.50	2.25 to 2.75	102	80.0 to 120	2.78	20.0
BC05067	Iron, Dissolved	mg/L	-0.000384	0.0176	0.2	4.29	4.21	0.199	0.170 to 0.230	135	70.0 to 130	1.88	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.



# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/8/22 09:39  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-9SR

**Laboratory ID Number:** BC05067

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05076	Iron, Total	mg/L	-0.000562	0.0176	0.2	0.197	0.196	0.199	0.170 to 0.230	98.5	70.0 to 130	0.509	20.0
BC05067	Lead, Dissolved	mg/L	0.0000104	0.000147	0.100	0.0956	0.0979	0.101	0.0850 to 0.115	95.6	70.0 to 130	2.38	20.0
BC05076	Lead, Total	mg/L	0.0000118	0.000147	0.100	0.0973	0.0992	0.0985	0.0850 to 0.115	97.3	70.0 to 130	1.93	20.0
BC05067	Lithium, Dissolved	mg/L	-0.000318	0.0154	0.200	0.238	0.238	0.200	0.170 to 0.230	99.2	70.0 to 130	0.00	20.0
BC05076	Lithium, Total	mg/L	-0.000138	0.0154	0.200	0.204	0.206	0.201	0.170 to 0.230	102	70.0 to 130	0.976	20.0
BC05067	Magnesium, Dissolved	mg/L	-0.00178	0.0462	5.00	57.1	55.9	5.10	4.25 to 5.75	86.0	70.0 to 130	2.12	20.0
BC05076	Magnesium, Total	mg/L	0.00188	0.0462	5.00	5.20	5.18	5.16	4.25 to 5.75	104	70.0 to 130	0.385	20.0
BC05067	Manganese, Dissolved	mg/L	0.0000035	0.0002	0.100	0.584	0.591	0.104	0.0850 to 0.115	67.0	70.0 to 130	1.19	20.0
BC05076	Manganese, Total	mg/L	-0.0000019	0.0002	0.100	0.0991	0.0987	0.101	0.0850 to 0.115	99.1	70.0 to 130	0.404	20.0
BC05076	Mercury, Total by CVAA	mg/L	-4.000E-05	0.000500	0.004	0.00398	0.00398	0.00397	0.00340 to 0.00460	99.5	70.0 to 130	0.00	20.0
BC05067	Molybdenum, Dissolved	mg/L	0.0000115	0.0002	0.100	0.0924	0.0981	0.0998	0.0850 to 0.115	92.2	70.0 to 130	5.98	20.0
BC05076	Molybdenum, Total	mg/L	0.0000253	0.0002	0.100	0.0951	0.0938	0.0993	0.0850 to 0.115	95.1	70.0 to 130	1.38	20.0
BC05067	Potassium, Dissolved	mg/L	0.0220	0.367	10.0	12.3	12.6	10.7	8.50 to 11.5	99.0	70.0 to 130	2.41	20.0
BC05076	Potassium, Total	mg/L	0.0236	0.367	10.0	9.72	9.67	9.94	8.50 to 11.5	97.2	70.0 to 130	0.516	20.0
BC05067	Selenium, Dissolved	mg/L	0.0000682	0.00100	0.100	0.0957	0.0996	0.102	0.0850 to 0.115	95.7	70.0 to 130	3.99	20.0
BC05076	Selenium, Total	mg/L	-0.000353	0.00100	0.100	0.0979	0.0971	0.103	0.0850 to 0.115	97.9	70.0 to 130	0.821	20.0
BC05067	Silicon, Dissolved	mg/L	-0.000427	0.0440	1.00	14.8	14.7	1.02	0.850 to 1.15	120	70.0 to 130	0.678	20.0
BC05076	Silicon, Total	mg/L	0.00024	0.0440	1.00	0.996	0.996	1.01	0.850 to 1.15	99.6	70.0 to 130	0.00	20.0
BC05067	Sodium, Dissolved	mg/L	0.000048	0.0660	5.00	35.6	36.0	5.02	4.25 to 5.75	92.0	70.0 to 130	1.12	20.0
BC05076	Sodium, Total	mg/L	0.000363	0.0660	5.00	5.12	5.15	5.04	4.25 to 5.75	100	70.0 to 130	0.584	20.0
BC05076	Sulfate	mg/L	0.243	2.0	20.0	20.5	19.8	19.8	18.0 to 22.0	102	80.0 to 120	3.47	20.0
BC05067	Thallium, Dissolved	mg/L	0.0000019	0.000147	0.100	0.0980	0.0998	0.100	0.0850 to 0.115	98.0	70.0 to 130	1.82	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/8/22 09:39  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-9SR

**Laboratory ID Number:** BC05067

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05076	Thallium, Total	mg/L	0.0000115	0.000147	0.100	0.0966	0.0983	0.0978	0.0850 to 0.115	96.6	70.0 to 130	1.74	20.0
BC05076	Total Organic Carbon	mg/L	0.320	1.00	10.0	9.24	9.66	9.73		92.4	80.0 to 120	4.44	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

## Batch QC Summary

**Customer Account:** WMWMILAP

**Sample Date:** 3/8/22 09:39

**Customer ID:**

**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-9SR

**Laboratory ID Number:** BC05067

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05077	Alkalinity, Total as CaCO3	mg/L					499	50.9	45.0 to 55.0			7.27	10.0
BC05076	Nitrogen, Nitrate/Nitrite	mg/L as N	0.06	0.200	2.00	1.97	0.055	1.90	1.80 to 2.20	98.5	90.0 to 110	0.00	15.0
BC05072	Solids, Dissolved	mg/L	0.0000	25.0			218	50.0	40.0 to 60.0			0.460	10.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-9DR

**Location Code:** WMWMILAP  
**Collected:** 3/8/22 11:00  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05068

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	3/17/22 10:40	3/22/22 10:37		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	3/17/22 10:40	3/22/22 12:13		10.15	86.5	mg/L	0.70035	4.06		
* Iron, Total	3/17/22 10:40	3/22/22 10:37		1.015	3.36	mg/L	0.008120	0.0406		
* Lithium, Total	3/17/22 10:40	3/22/22 10:37		1.015	0.0682	mg/L	0.007105	0.01999956		
* Magnesium, Total	3/17/22 10:40	3/22/22 12:13		10.15	48.7	mg/L	0.21315	4.06		
Silica, Total (calc.)	3/17/22 10:40	3/22/22 10:37		1	39.2	mg/L				
Silicon, Total	3/17/22 10:40	3/22/22 10:37		1.015	18.3	mg/L	0.02030	0.25375		
* Sodium, Total	3/17/22 10:40	3/22/22 10:37		1.015	35.0	mg/L	0.03045	0.406		
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Dissolved	3/17/22 14:16	3/23/22 10:16		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Dissolved	3/17/22 14:16	3/23/22 11:54		10.15	93.0	mg/L	0.70035	4.06		
* Iron, Dissolved	3/17/22 14:16	3/23/22 10:16		1.015	3.15	mg/L	0.008120	0.0406		
* Lithium, Dissolved	3/17/22 14:16	3/23/22 10:16		1.015	0.0679	mg/L	0.007105	0.01999956		
* Magnesium, Dissolved	3/17/22 14:16	3/23/22 11:54		10.15	47.6	mg/L	0.21315	4.06		
Silica, Dissolved (calc.)	3/17/22 14:16	3/23/22 10:16		1	40.0	mg/L				
Silicon, Dissolved	3/17/22 14:16	3/23/22 10:16		1.015	18.7	mg/L	0.02030	0.25375		
* Sodium, Dissolved	3/17/22 14:16	3/23/22 10:16		1.015	35.4	mg/L	0.03045	0.406		
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	3/11/22 11:09	3/11/22 19:44		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	3/11/22 11:09	3/11/22 19:44		1.015	Not Detected	mg/L	0.006090	0.01015	U	
* Arsenic, Total	3/11/22 11:09	3/11/22 19:44		1.015	0.000858	mg/L	0.000081	0.000203		
* Barium, Total	3/11/22 11:09	3/11/22 19:44		1.015	0.0393	mg/L	0.000102	0.000203		
* Beryllium, Total	3/11/22 11:09	3/11/22 19:44		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	3/11/22 11:09	3/11/22 19:44		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	3/11/22 11:09	3/11/22 19:44		1.015	0.000241	mg/L	0.000203	0.001015	J	
* Cobalt, Total	3/11/22 11:09	3/11/22 19:44		1.015	0.000128	mg/L	0.000068	0.000203	J	
* Lead, Total	3/11/22 11:09	3/11/22 19:44		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	3/11/22 11:09	3/11/22 19:44		1.015	0.168	mg/L	0.000152	0.000203		
* Molybdenum, Total	3/11/22 11:09	3/11/22 19:44		1.015	0.00121	mg/L	0.000102	0.000203		
* Potassium, Total	3/11/22 11:09	3/11/22 19:44		1.015	2.32	mg/L	0.169505	0.5075		

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-9DR

**Location Code:** WMWMILAP  
**Collected:** 3/8/22 11:00  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05068

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/11/22 11:09	3/11/22 19:44		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/11/22 11:09	3/11/22 19:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	3/11/22 13:40	3/11/22 16:02		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/11/22 13:40	3/11/22 16:02		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/11/22 13:40	3/11/22 16:02		1.015	0.000735	mg/L	0.000081	0.000203	
* Barium, Dissolved	3/11/22 13:40	3/11/22 16:02		1.015	0.0405	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/11/22 13:40	3/11/22 16:02		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/11/22 13:40	3/11/22 16:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/11/22 13:40	3/11/22 16:02		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	3/11/22 13:40	3/11/22 16:02		1.015	0.0000878	mg/L	0.000068	0.000203	J
* Lead, Dissolved	3/11/22 13:40	3/11/22 16:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/11/22 13:40	3/11/22 16:02		1.015	0.163	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/11/22 13:40	3/11/22 16:02		1.015	0.00106	mg/L	0.000102	0.000203	
* Potassium, Dissolved	3/11/22 13:40	3/11/22 16:02		1.015	2.56	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/11/22 13:40	3/15/22 17:03		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/11/22 13:40	3/11/22 16:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	3/10/22 17:58	3/10/22 23:46		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	3/17/22 13:07	3/17/22 13:07		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity, Total as CaCO3	3/14/22 10:15	3/14/22 15:35		1	204	mg/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	3/11/22 10:40	3/14/22 13:47		1	594	mg/L		50	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
Bicarbonate Alkalinity, (calc.)	3/14/22 10:15	3/14/22 15:35		1	203	mg/L			A
Carbonate Alkalinity, (calc.)	3/14/22 10:15	3/14/22 15:35		1	0.96	mg/L			A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/15/22 20:25	3/15/22 20:25		1	Not Detected	mg/L	1.00	2	U

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-9DR

**Location Code:** WMWMILAP  
**Collected:** 3/8/22 11:00  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05068

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/11/22 13:35	3/11/22 13:35		1	7.08	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 09:29	3/22/22 09:29		1	0.110	mg/L	0.06	0.125	J
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/23/22 15:41	3/23/22 15:41		20	296	mg/L	12.0	40	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	3/8/22 10:57	3/8/22 10:57			788.53	uS/cm			FA
pH	3/8/22 10:57	3/8/22 10:57			6.75	SU			FA
Temperature	3/8/22 10:57	3/8/22 10:57			17.11	C			FA
Turbidity	3/8/22 10:57	3/8/22 10:57			1.98	NTU			FA

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/8/22 11:00  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-9DR

**Laboratory ID Number:** BC05068

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BC05077	Aluminum, Dissolved	mg/L	-0.000823	0.010	0.100	0.110	0.105	0.109	0.0850 to 0.115	110	70.0 to 130	4.65	20.0	
BC05076	Aluminum, Total	mg/L	-0.000102	0.010	0.100	0.0979	0.0969	0.102	0.0850 to 0.115	97.9	70.0 to 130	1.03	20.0	
BC05077	Antimony, Dissolved	mg/L	0.000222	0.00100	0.100	0.0917	0.0891	0.0932	0.0850 to 0.115	91.7	70.0 to 130	2.88	20.0	
BC05076	Antimony, Total	mg/L	0.000398	0.00100	0.100	0.0894	0.0902	0.0938	0.0850 to 0.115	89.4	70.0 to 130	0.891	20.0	
BC05077	Arsenic, Dissolved	mg/L	0.0000046	0.000176	0.100	0.0973	0.0952	0.101	0.0850 to 0.115	96.8	70.0 to 130	2.18	20.0	
BC05076	Arsenic, Total	mg/L	-0.0000174	0.000176	0.100	0.0988	0.0975	0.102	0.0850 to 0.115	98.8	70.0 to 130	1.32	20.0	
BC05077	Barium, Dissolved	mg/L	0.0000160	0.000200	0.100	0.166	0.162	0.100	0.0850 to 0.115	101	70.0 to 130	2.44	20.0	
BC05076	Barium, Total	mg/L	-0.0000079	0.000200	0.100	0.0948	0.0964	0.0979	0.0850 to 0.115	94.8	70.0 to 130	1.67	20.0	
BC05077	Beryllium, Dissolved	mg/L	0.0000178	0.000880	0.100	0.116	0.104	0.109	0.0850 to 0.115	116	70.0 to 130	10.9	20.0	
BC05076	Beryllium, Total	mg/L	0.0000199	0.000880	0.100	0.0890	0.0893	0.0937	0.0850 to 0.115	89.0	70.0 to 130	0.337	20.0	
BC05077	Boron, Dissolved	mg/L	-0.000193	0.0650	1.00	1.14	1.13	1.02	0.850 to 1.15	103	70.0 to 130	0.881	20.0	
BC05076	Boron, Total	mg/L	0.000004	0.0650	1.00	0.976	0.962	0.978	0.850 to 1.15	97.6	70.0 to 130	1.44	20.0	
BC05077	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0987	0.0909	0.0989	0.0850 to 0.115	98.7	70.0 to 130	8.23	20.0	
BC05076	Cadmium, Total	mg/L	0.0000059	0.000147	0.100	0.0970	0.0958	0.100	0.0850 to 0.115	97.0	70.0 to 130	1.24	20.0	
BC05077	Calcium, Dissolved	mg/L	-0.0163	0.152	5.00	17.8	17.5	4.87	4.25 to 5.75	96.0	70.0 to 130	1.70	20.0	
BC05076	Calcium, Total	mg/L	-0.00894	0.152	5.00	4.78	4.62	4.88	4.25 to 5.75	95.6	70.0 to 130	3.40	20.0	
BC05076	Chloride	mg/L	-0.00495	1.00	10.0	10.1	9.84	10.1	9.00 to 11.0	101	80.0 to 120	2.61	20.0	
BC05077	Chromium, Dissolved	mg/L	-0.000106	0.000440	0.100	0.0983	0.0951	0.102	0.0850 to 0.115	98.3	70.0 to 130	3.31	20.0	
BC05076	Chromium, Total	mg/L	0.0000215	0.000440	0.100	0.0964	0.0976	0.100	0.0850 to 0.115	96.2	70.0 to 130	1.24	20.0	
BC05077	Cobalt, Dissolved	mg/L	-0.0000005	0.000147	0.100	0.101	0.0979	0.104	0.0850 to 0.115	101	70.0 to 130	3.12	20.0	
BC05076	Cobalt, Total	mg/L	0.0000085	0.000147	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0	
BC05076	Fluoride	mg/L	-0.0313	0.125	2.50	2.55	2.48	2.50	2.25 to 2.75	102	80.0 to 120	2.78	20.0	
BC05077	Iron, Dissolved	mg/L	-0.000384	0.0176	0.2	0.248	0.241	0.199	0.170 to 0.230	100	70.0 to 130	2.86	20.0	

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/8/22 11:00  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-9DR

**Laboratory ID Number:** BC05068

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05076	Iron, Total	mg/L	-0.000562	0.0176	0.2	0.197	0.196	0.199	0.170 to 0.230	98.5	70.0 to 130	0.509	20.0
BC05077	Lead, Dissolved	mg/L	0.0000104	0.000147	0.100	0.109	0.0948	0.101	0.0850 to 0.115	109	70.0 to 130	13.9	20.0
BC05076	Lead, Total	mg/L	0.0000118	0.000147	0.100	0.0973	0.0992	0.0985	0.0850 to 0.115	97.3	70.0 to 130	1.93	20.0
BC05077	Lithium, Dissolved	mg/L	-0.000318	0.0154	0.200	0.327	0.323	0.200	0.170 to 0.230	100	70.0 to 130	1.23	20.0
BC05076	Lithium, Total	mg/L	-0.000138	0.0154	0.200	0.204	0.206	0.201	0.170 to 0.230	102	70.0 to 130	0.976	20.0
BC05077	Magnesium, Dissolved	mg/L	-0.00178	0.0462	5.00	9.03	8.76	5.10	4.25 to 5.75	98.8	70.0 to 130	3.04	20.0
BC05076	Magnesium, Total	mg/L	0.00188	0.0462	5.00	5.20	5.18	5.16	4.25 to 5.75	104	70.0 to 130	0.385	20.0
BC05077	Manganese, Dissolved	mg/L	0.0000035	0.0002	0.100	0.118	0.113	0.104	0.0850 to 0.115	100	70.0 to 130	4.33	20.0
BC05076	Manganese, Total	mg/L	-0.0000019	0.0002	0.100	0.0991	0.0987	0.101	0.0850 to 0.115	99.1	70.0 to 130	0.404	20.0
BC05076	Mercury, Total by CVAA	mg/L	-4.000E-05	0.000500	0.004	0.00398	0.00398	0.00397	0.00340 to 0.00460	99.5	70.0 to 130	0.00	20.0
BC05077	Molybdenum, Dissolved	mg/L	0.0000115	0.0002	0.100	0.101	0.0943	0.0998	0.0850 to 0.115	98.9	70.0 to 130	6.86	20.0
BC05076	Molybdenum, Total	mg/L	0.0000253	0.0002	0.100	0.0951	0.0938	0.0993	0.0850 to 0.115	95.1	70.0 to 130	1.38	20.0
BC05077	Potassium, Dissolved	mg/L	0.0220	0.367	10.0	18.3	17.9	10.7	8.50 to 11.5	107	70.0 to 130	2.21	20.0
BC05076	Potassium, Total	mg/L	0.0236	0.367	10.0	9.72	9.67	9.94	8.50 to 11.5	97.2	70.0 to 130	0.516	20.0
BC05077	Selenium, Dissolved	mg/L	0.0000682	0.00100	0.100	0.0362	0.0417	0.102	0.0850 to 0.115	34.9	70.0 to 130	14.1	20.0
BC05076	Selenium, Total	mg/L	-0.000353	0.00100	0.100	0.0979	0.0971	0.103	0.0850 to 0.115	97.9	70.0 to 130	0.821	20.0
BC05077	Silicon, Dissolved	mg/L	-0.000427	0.0440	1.00	8.10	8.10	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC05076	Silicon, Total	mg/L	0.00024	0.0440	1.00	0.996	0.996	1.01	0.850 to 1.15	99.6	70.0 to 130	0.00	20.0
BC05077	Sodium, Dissolved	mg/L	0.000048	0.0660	5.00	341	375	5.02	4.25 to 5.75	40.0	70.0 to 130	9.50	20.0
BC05076	Sodium, Total	mg/L	0.000363	0.0660	5.00	5.12	5.15	5.04	4.25 to 5.75	100	70.0 to 130	0.584	20.0
BC05076	Sulfate	mg/L	0.243	2.0	20.0	20.5	19.8	19.8	18.0 to 22.0	102	80.0 to 120	3.47	20.0
BC05077	Thallium, Dissolved	mg/L	0.0000019	0.000147	0.100	0.107	0.0955	0.100	0.0850 to 0.115	107	70.0 to 130	11.4	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.



# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/8/22 11:00  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-9DR

**Laboratory ID Number:** BC05068

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05076	Thallium, Total	mg/L	0.0000115	0.000147	0.100	0.0966	0.0983	0.0978	0.0850 to 0.115	96.6	70.0 to 130	1.74	20.0
BC05076	Total Organic Carbon	mg/L	0.320	1.00	10.0	9.24	9.66	9.73		92.4	80.0 to 120	4.44	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

## Batch QC Summary

**Customer Account:** WMWMILAP

**Sample Date:** 3/8/22 11:00

**Customer ID:**

**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-9DR

**Laboratory ID Number:** BC05068

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05077	Alkalinity, Total as CaCO3	mg/L					499	50.9	45.0 to 55.0			7.27	10.0
BC05076	Nitrogen, Nitrate/Nitrite	mg/L as N	0.06	0.200	2.00	1.97	0.055	1.90	1.80 to 2.20	98.5	90.0 to 110	0.00	15.0
BC05072	Solids, Dissolved	mg/L	0.0000	25.0			218	50.0	40.0 to 60.0			0.460	10.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-16

**Location Code:** WMWMILAP  
**Collected:** 3/8/22 13:25  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05069

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	3/17/22 10:40	3/22/22 10:39		1.015	2.13	mg/L	0.030000	0.1015	
* Calcium, Total	3/17/22 10:40	3/22/22 13:05		10.15	154	mg/L	0.70035	4.06	
* Iron, Total	3/17/22 10:40	3/22/22 10:39		1.015	0.434	mg/L	0.008120	0.0406	
* Lithium, Total	3/17/22 10:40	3/22/22 10:39		1.015	0.0901	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/17/22 10:40	3/22/22 10:39		1.015	19.4	mg/L	0.021315	0.406	
Silica, Total (calc.)	3/17/22 10:40	3/22/22 10:39		1	5.82	mg/L			
Silicon, Total	3/17/22 10:40	3/22/22 10:39		1.015	2.72	mg/L	0.02030	0.25375	
* Sodium, Total	3/17/22 10:40	3/22/22 13:05		10.15	69.8	mg/L	0.3045	4.06	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	3/17/22 14:16	3/23/22 10:17		1.015	2.23	mg/L	0.030000	0.1015	
* Calcium, Dissolved	3/17/22 14:16	3/23/22 11:55		10.15	151	mg/L	0.70035	4.06	
* Iron, Dissolved	3/17/22 14:16	3/23/22 10:17		1.015	0.444	mg/L	0.008120	0.0406	
* Lithium, Dissolved	3/17/22 14:16	3/23/22 10:17		1.015	0.0873	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	3/17/22 14:16	3/23/22 10:17		1.015	19.0	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	3/17/22 14:16	3/23/22 10:17		1	6.08	mg/L			
Silicon, Dissolved	3/17/22 14:16	3/23/22 10:17		1.015	2.84	mg/L	0.02030	0.25375	
* Sodium, Dissolved	3/17/22 14:16	3/23/22 11:55		10.15	64.5	mg/L	0.3045	4.06	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	3/11/22 11:09	3/11/22 19:48		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/11/22 11:09	3/11/22 19:48		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	3/11/22 11:09	3/11/22 19:48		1.015	0.000728	mg/L	0.000081	0.000203	
* Barium, Total	3/11/22 11:09	3/11/22 19:48		1.015	0.0206	mg/L	0.000102	0.000203	
* Beryllium, Total	3/11/22 11:09	3/11/22 19:48		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/11/22 11:09	3/11/22 19:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/11/22 11:09	3/11/22 19:48		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	3/11/22 11:09	3/11/22 19:48		1.015	0.00413	mg/L	0.000068	0.000203	
* Lead, Total	3/11/22 11:09	3/11/22 19:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/11/22 11:09	3/11/22 19:48		1.015	0.966	mg/L	0.000152	0.000203	
* Molybdenum, Total	3/11/22 11:09	3/11/22 19:48		1.015	0.0418	mg/L	0.000102	0.000203	
* Potassium, Total	3/11/22 11:09	3/11/22 19:48		1.015	11.6	mg/L	0.169505	0.5075	

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-16

**Location Code:** WMWMILAP  
**Collected:** 3/8/22 13:25  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05069

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/11/22 11:09	3/11/22 19:48		1.015	0.00171	mg/L	0.000508	0.001015	
* Thallium, Total	3/11/22 11:09	3/11/22 19:48		1.015	0.0000715	mg/L	0.000068	0.000203	J
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	3/11/22 13:40	3/11/22 16:06		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/11/22 13:40	3/11/22 16:06		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/11/22 13:40	3/11/22 16:06		1.015	0.000674	mg/L	0.000081	0.000203	
* Barium, Dissolved	3/11/22 13:40	3/11/22 16:06		1.015	0.0211	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/11/22 13:40	3/11/22 16:06		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/11/22 13:40	3/11/22 16:06		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/11/22 13:40	3/11/22 16:06		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	3/11/22 13:40	3/11/22 16:06		1.015	0.00386	mg/L	0.000068	0.000203	
* Lead, Dissolved	3/11/22 13:40	3/11/22 16:06		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/11/22 13:40	3/11/22 16:06		1.015	0.962	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/11/22 13:40	3/11/22 16:06		1.015	0.0431	mg/L	0.000102	0.000203	
* Potassium, Dissolved	3/11/22 13:40	3/11/22 16:06		1.015	12.7	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/11/22 13:40	3/15/22 17:07		1.015	0.00207	mg/L	0.000508	0.001015	
* Thallium, Dissolved	3/11/22 13:40	3/11/22 16:06		1.015	0.0000779	mg/L	0.000068	0.000203	J
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	3/10/22 17:58	3/10/22 23:50		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	3/17/22 13:09	3/17/22 13:09		1	0.440	mg/L as N	0.20	0.3	
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity, Total as CaCO3	3/14/22 10:15	3/14/22 15:35		1	61.7	mg/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	3/11/22 10:40	3/14/22 13:47		1	738	mg/L		50	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
Bicarbonate Alkalinity, (calc.)	3/14/22 10:15	3/14/22 15:35		1	61.4	mg/L			A
Carbonate Alkalinity, (calc.)	3/14/22 10:15	3/14/22 15:35		1	0.25	mg/L			A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/15/22 20:42	3/15/22 20:42		1	1.22	mg/L	1.00	2	J

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-16

**Location Code:** WMWMILAP  
**Collected:** 3/8/22 13:25  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05069

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/11/22 13:36	3/11/22 13:36		1	7.81	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 09:30	3/22/22 09:30		1	0.155	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/23/22 15:42	3/23/22 15:42		32	530	mg/L	19.2	64	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	3/8/22 13:23	3/8/22 13:23			999.74	uS/cm			FA
pH	3/8/22 13:23	3/8/22 13:23			6.15	SU			FA
Temperature	3/8/22 13:23	3/8/22 13:23			20.57	C			FA
Turbidity	3/8/22 13:23	3/8/22 13:23			0.98	NTU			FA

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/8/22 13:25  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-16

**Laboratory ID Number:** BC05069

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BC05077	Aluminum, Dissolved	mg/L	-0.000823	0.010	0.100	0.110	0.105	0.109	0.0850 to 0.115	110	70.0 to 130	4.65	20.0	
BC05076	Aluminum, Total	mg/L	-0.000102	0.010	0.100	0.0979	0.0969	0.102	0.0850 to 0.115	97.9	70.0 to 130	1.03	20.0	
BC05077	Antimony, Dissolved	mg/L	0.000222	0.00100	0.100	0.0917	0.0891	0.0932	0.0850 to 0.115	91.7	70.0 to 130	2.88	20.0	
BC05076	Antimony, Total	mg/L	0.000398	0.00100	0.100	0.0894	0.0902	0.0938	0.0850 to 0.115	89.4	70.0 to 130	0.891	20.0	
BC05077	Arsenic, Dissolved	mg/L	0.0000046	0.000176	0.100	0.0973	0.0952	0.101	0.0850 to 0.115	96.8	70.0 to 130	2.18	20.0	
BC05076	Arsenic, Total	mg/L	-0.0000174	0.000176	0.100	0.0988	0.0975	0.102	0.0850 to 0.115	98.8	70.0 to 130	1.32	20.0	
BC05077	Barium, Dissolved	mg/L	0.0000160	0.000200	0.100	0.166	0.162	0.100	0.0850 to 0.115	101	70.0 to 130	2.44	20.0	
BC05076	Barium, Total	mg/L	-0.0000079	0.000200	0.100	0.0948	0.0964	0.0979	0.0850 to 0.115	94.8	70.0 to 130	1.67	20.0	
BC05077	Beryllium, Dissolved	mg/L	0.0000178	0.000880	0.100	0.116	0.104	0.109	0.0850 to 0.115	116	70.0 to 130	10.9	20.0	
BC05076	Beryllium, Total	mg/L	0.0000199	0.000880	0.100	0.0890	0.0893	0.0937	0.0850 to 0.115	89.0	70.0 to 130	0.337	20.0	
BC05077	Boron, Dissolved	mg/L	-0.000193	0.0650	1.00	1.14	1.13	1.02	0.850 to 1.15	103	70.0 to 130	0.881	20.0	
BC05076	Boron, Total	mg/L	0.000004	0.0650	1.00	0.976	0.962	0.978	0.850 to 1.15	97.6	70.0 to 130	1.44	20.0	
BC05077	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0987	0.0909	0.0989	0.0850 to 0.115	98.7	70.0 to 130	8.23	20.0	
BC05076	Cadmium, Total	mg/L	0.0000059	0.000147	0.100	0.0970	0.0958	0.100	0.0850 to 0.115	97.0	70.0 to 130	1.24	20.0	
BC05077	Calcium, Dissolved	mg/L	-0.0163	0.152	5.00	17.8	17.5	4.87	4.25 to 5.75	96.0	70.0 to 130	1.70	20.0	
BC05076	Calcium, Total	mg/L	-0.00894	0.152	5.00	4.78	4.62	4.88	4.25 to 5.75	95.6	70.0 to 130	3.40	20.0	
BC05076	Chloride	mg/L	-0.00495	1.00	10.0	10.1	9.84	10.1	9.00 to 11.0	101	80.0 to 120	2.61	20.0	
BC05077	Chromium, Dissolved	mg/L	-0.000106	0.000440	0.100	0.0983	0.0951	0.102	0.0850 to 0.115	98.3	70.0 to 130	3.31	20.0	
BC05076	Chromium, Total	mg/L	0.0000215	0.000440	0.100	0.0964	0.0976	0.100	0.0850 to 0.115	96.2	70.0 to 130	1.24	20.0	
BC05077	Cobalt, Dissolved	mg/L	-0.0000005	0.000147	0.100	0.101	0.0979	0.104	0.0850 to 0.115	101	70.0 to 130	3.12	20.0	
BC05076	Cobalt, Total	mg/L	0.0000085	0.000147	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0	
BC05076	Fluoride	mg/L	-0.0313	0.125	2.50	2.55	2.48	2.50	2.25 to 2.75	102	80.0 to 120	2.78	20.0	
BC05077	Iron, Dissolved	mg/L	-0.000384	0.0176	0.2	0.248	0.241	0.199	0.170 to 0.230	100	70.0 to 130	2.86	20.0	

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/8/22 13:25  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-16

**Laboratory ID Number:** BC05069

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05076	Iron, Total	mg/L	-0.000562	0.0176	0.2	0.197	0.196	0.199	0.170 to 0.230	98.5	70.0 to 130	0.509	20.0
BC05077	Lead, Dissolved	mg/L	0.0000104	0.000147	0.100	0.109	0.0948	0.101	0.0850 to 0.115	109	70.0 to 130	13.9	20.0
BC05076	Lead, Total	mg/L	0.0000118	0.000147	0.100	0.0973	0.0992	0.0985	0.0850 to 0.115	97.3	70.0 to 130	1.93	20.0
BC05077	Lithium, Dissolved	mg/L	-0.000318	0.0154	0.200	0.327	0.323	0.200	0.170 to 0.230	100	70.0 to 130	1.23	20.0
BC05076	Lithium, Total	mg/L	-0.000138	0.0154	0.200	0.204	0.206	0.201	0.170 to 0.230	102	70.0 to 130	0.976	20.0
BC05077	Magnesium, Dissolved	mg/L	-0.00178	0.0462	5.00	9.03	8.76	5.10	4.25 to 5.75	98.8	70.0 to 130	3.04	20.0
BC05076	Magnesium, Total	mg/L	0.00188	0.0462	5.00	5.20	5.18	5.16	4.25 to 5.75	104	70.0 to 130	0.385	20.0
BC05077	Manganese, Dissolved	mg/L	0.0000035	0.0002	0.100	0.118	0.113	0.104	0.0850 to 0.115	100	70.0 to 130	4.33	20.0
BC05076	Manganese, Total	mg/L	-0.0000019	0.0002	0.100	0.0991	0.0987	0.101	0.0850 to 0.115	99.1	70.0 to 130	0.404	20.0
BC05076	Mercury, Total by CVAA	mg/L	-4.000E-05	0.000500	0.004	0.00398	0.00398	0.00397	0.00340 to 0.00460	99.5	70.0 to 130	0.00	20.0
BC05077	Molybdenum, Dissolved	mg/L	0.0000115	0.0002	0.100	0.101	0.0943	0.0998	0.0850 to 0.115	98.9	70.0 to 130	6.86	20.0
BC05076	Molybdenum, Total	mg/L	0.0000253	0.0002	0.100	0.0951	0.0938	0.0993	0.0850 to 0.115	95.1	70.0 to 130	1.38	20.0
BC05077	Potassium, Dissolved	mg/L	0.0220	0.367	10.0	18.3	17.9	10.7	8.50 to 11.5	107	70.0 to 130	2.21	20.0
BC05076	Potassium, Total	mg/L	0.0236	0.367	10.0	9.72	9.67	9.94	8.50 to 11.5	97.2	70.0 to 130	0.516	20.0
BC05077	Selenium, Dissolved	mg/L	0.0000682	0.00100	0.100	0.0362	0.0417	0.102	0.0850 to 0.115	34.9	70.0 to 130	14.1	20.0
BC05076	Selenium, Total	mg/L	-0.000353	0.00100	0.100	0.0979	0.0971	0.103	0.0850 to 0.115	97.9	70.0 to 130	0.821	20.0
BC05077	Silicon, Dissolved	mg/L	-0.000427	0.0440	1.00	8.10	8.10	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC05076	Silicon, Total	mg/L	0.00024	0.0440	1.00	0.996	0.996	1.01	0.850 to 1.15	99.6	70.0 to 130	0.00	20.0
BC05077	Sodium, Dissolved	mg/L	0.000048	0.0660	5.00	341	375	5.02	4.25 to 5.75	40.0	70.0 to 130	9.50	20.0
BC05076	Sodium, Total	mg/L	0.000363	0.0660	5.00	5.12	5.15	5.04	4.25 to 5.75	100	70.0 to 130	0.584	20.0
BC05076	Sulfate	mg/L	0.243	2.0	20.0	20.5	19.8	19.8	18.0 to 22.0	102	80.0 to 120	3.47	20.0
BC05077	Thallium, Dissolved	mg/L	0.0000019	0.000147	0.100	0.107	0.0955	0.100	0.0850 to 0.115	107	70.0 to 130	11.4	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/8/22 13:25  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-16

**Laboratory ID Number:** BC05069

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05076	Thallium, Total	mg/L	0.0000115	0.000147	0.100	0.0966	0.0983	0.0978	0.0850 to 0.115	96.6	70.0 to 130	1.74	20.0
BC05076	Total Organic Carbon	mg/L	0.320	1.00	10.0	9.24	9.66	9.73		92.4	80.0 to 120	4.44	20.0

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**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.



## Batch QC Summary

**Customer Account:** WMWMILAP

**Sample Date:** 3/8/22 13:25

**Customer ID:**

**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-16

**Laboratory ID Number:** BC05069

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec Rec	Rec Limit	Prec	Prec Limit
BC05077	Alkalinity, Total as CaCO3	mg/L					499	50.9	45.0 to 55.0			7.27	10.0
BC05076	Nitrogen, Nitrate/Nitrite	mg/L as N	0.06	0.200	2.00	1.97	0.055	1.90	1.80 to 2.20	98.5	90.0 to 110	0.00	15.0
BC05072	Solids, Dissolved	mg/L	0.0000	25.0			218	50.0	40.0 to 60.0			0.460	10.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-15

**Location Code:** WMWMILAP  
**Collected:** 3/9/22 10:09  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05070

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	3/17/22 10:40	3/22/22 10:41		1.015	0.445	mg/L	0.030000	0.1015	
* Calcium, Total	3/17/22 10:40	3/22/22 10:41		1.015	39.1	mg/L	0.070035	0.406	
* Iron, Total	3/17/22 10:40	3/22/22 12:17		10.15	10.3	mg/L	0.08120	0.406	
* Lithium, Total	3/17/22 10:40	3/22/22 10:41		1.015	0.0177	mg/L	0.007105	0.01999956	J
* Magnesium, Total	3/17/22 10:40	3/22/22 10:41		1.015	12.3	mg/L	0.021315	0.406	
Silica, Total (calc.)	3/17/22 10:40	3/22/22 10:41		1	35.1	mg/L			
Silicon, Total	3/17/22 10:40	3/22/22 10:41		1.015	16.4	mg/L	0.02030	0.25375	
* Sodium, Total	3/17/22 10:40	3/22/22 10:41		1.015	19.9	mg/L	0.03045	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	3/17/22 14:16	3/23/22 10:19		1.015	0.412	mg/L	0.030000	0.1015	
* Calcium, Dissolved	3/17/22 14:16	3/23/22 11:57		10.15	40.3	mg/L	0.70035	4.06	
* Iron, Dissolved	3/17/22 14:16	3/23/22 11:57		10.15	9.58	mg/L	0.08120	0.406	
* Lithium, Dissolved	3/17/22 14:16	3/23/22 10:19		1.015	0.0171	mg/L	0.007105	0.01999956	J
* Magnesium, Dissolved	3/17/22 14:16	3/23/22 10:19		1.015	12.2	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	3/17/22 14:16	3/23/22 10:19		1	35.1	mg/L			
Silicon, Dissolved	3/17/22 14:16	3/23/22 10:19		1.015	16.4	mg/L	0.02030	0.25375	
* Sodium, Dissolved	3/17/22 14:16	3/23/22 10:19		1.015	19.5	mg/L	0.03045	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	3/11/22 11:09	3/11/22 19:52		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/11/22 11:09	3/11/22 19:52		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	3/11/22 11:09	3/11/22 19:52		1.015	0.000420	mg/L	0.000081	0.000203	
* Barium, Total	3/11/22 11:09	3/11/22 19:52		1.015	0.0275	mg/L	0.000102	0.000203	
* Beryllium, Total	3/11/22 11:09	3/11/22 19:52		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/11/22 11:09	3/11/22 19:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/11/22 11:09	3/11/22 19:52		1.015	0.000279	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/11/22 11:09	3/11/22 19:52		1.015	0.000652	mg/L	0.000068	0.000203	
* Lead, Total	3/11/22 11:09	3/11/22 19:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/11/22 11:09	3/11/22 19:52		1.015	0.568	mg/L	0.000152	0.000203	
* Molybdenum, Total	3/11/22 11:09	3/11/22 19:52		1.015	0.000114	mg/L	0.000102	0.000203	J
* Potassium, Total	3/11/22 11:09	3/11/22 19:52		1.015	0.960	mg/L	0.169505	0.5075	

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-15

**Location Code:** WMWMILAP  
**Collected:** 3/9/22 10:09  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05070

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/11/22 11:09	3/11/22 19:52		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/11/22 11:09	3/11/22 19:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	3/11/22 13:40	3/11/22 16:09		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/11/22 13:40	3/11/22 16:09		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/11/22 13:40	3/11/22 16:09		1.015	0.000376	mg/L	0.000081	0.000203	
* Barium, Dissolved	3/11/22 13:40	3/11/22 16:09		1.015	0.0274	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/11/22 13:40	3/11/22 16:09		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/11/22 13:40	3/11/22 16:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/11/22 13:40	3/11/22 16:09		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	3/11/22 13:40	3/11/22 16:09		1.015	0.000669	mg/L	0.000068	0.000203	
* Lead, Dissolved	3/11/22 13:40	3/11/22 16:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/11/22 13:40	3/11/22 16:09		1.015	0.550	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/11/22 13:40	3/11/22 16:09		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	3/11/22 13:40	3/11/22 16:09		1.015	1.07	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/11/22 13:40	3/15/22 17:10		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/11/22 13:40	3/11/22 16:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	3/10/22 17:58	3/10/22 23:54		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	3/17/22 13:11	3/17/22 13:11		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity, Total as CaCO3	3/14/22 10:15	3/14/22 15:35		1	76.3	mg/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	3/11/22 10:40	3/14/22 13:47		1	279	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
Bicarbonate Alkalinity, (calc.)	3/14/22 10:15	3/14/22 15:35		1	76.2	mg/L			
Carbonate Alkalinity, (calc.)	3/14/22 10:15	3/14/22 15:35		1	0.07	mg/L			
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/15/22 21:02	3/15/22 21:02		1	Not Detected	mg/L	1.00	2	U

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-15

**Location Code:** WMWMILAP  
**Collected:** 3/9/22 10:09  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05070

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/11/22 13:38	3/11/22 13:38		1	17.6	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 09:31	3/22/22 09:31		1	0.103	mg/L	0.06	0.125	J
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/23/22 15:43	3/23/22 15:43		8	123	mg/L	4.8	16	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	3/9/22 10:06	3/9/22 10:06			427.19	uS/cm			FA
pH	3/9/22 10:06	3/9/22 10:06			6.37	SU			FA
Temperature	3/9/22 10:06	3/9/22 10:06			20.66	C			FA
Turbidity	3/9/22 10:06	3/9/22 10:06			9.67	NTU			FA

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/9/22 10:09  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-15

**Laboratory ID Number:** BC05070

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BC05077	Aluminum, Dissolved	mg/L	-0.000823	0.010	0.100	0.110	0.105	0.109	0.0850 to 0.115	110	70.0 to 130	4.65	20.0
BC05076	Aluminum, Total	mg/L	-0.000102	0.010	0.100	0.0979	0.0969	0.102	0.0850 to 0.115	97.9	70.0 to 130	1.03	20.0
BC05077	Antimony, Dissolved	mg/L	0.000222	0.00100	0.100	0.0917	0.0891	0.0932	0.0850 to 0.115	91.7	70.0 to 130	2.88	20.0
BC05076	Antimony, Total	mg/L	0.000398	0.00100	0.100	0.0894	0.0902	0.0938	0.0850 to 0.115	89.4	70.0 to 130	0.891	20.0
BC05077	Arsenic, Dissolved	mg/L	0.0000046	0.000176	0.100	0.0973	0.0952	0.101	0.0850 to 0.115	96.8	70.0 to 130	2.18	20.0
BC05076	Arsenic, Total	mg/L	-0.0000174	0.000176	0.100	0.0988	0.0975	0.102	0.0850 to 0.115	98.8	70.0 to 130	1.32	20.0
BC05077	Barium, Dissolved	mg/L	0.0000160	0.000200	0.100	0.166	0.162	0.100	0.0850 to 0.115	101	70.0 to 130	2.44	20.0
BC05076	Barium, Total	mg/L	-0.0000079	0.000200	0.100	0.0948	0.0964	0.0979	0.0850 to 0.115	94.8	70.0 to 130	1.67	20.0
BC05077	Beryllium, Dissolved	mg/L	0.0000178	0.000880	0.100	0.116	0.104	0.109	0.0850 to 0.115	116	70.0 to 130	10.9	20.0
BC05076	Beryllium, Total	mg/L	0.0000199	0.000880	0.100	0.0890	0.0893	0.0937	0.0850 to 0.115	89.0	70.0 to 130	0.337	20.0
BC05077	Boron, Dissolved	mg/L	-0.000193	0.0650	1.00	1.14	1.13	1.02	0.850 to 1.15	103	70.0 to 130	0.881	20.0
BC05076	Boron, Total	mg/L	0.000004	0.0650	1.00	0.976	0.962	0.978	0.850 to 1.15	97.6	70.0 to 130	1.44	20.0
BC05077	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0987	0.0909	0.0989	0.0850 to 0.115	98.7	70.0 to 130	8.23	20.0
BC05076	Cadmium, Total	mg/L	0.0000059	0.000147	0.100	0.0970	0.0958	0.100	0.0850 to 0.115	97.0	70.0 to 130	1.24	20.0
BC05077	Calcium, Dissolved	mg/L	-0.0163	0.152	5.00	17.8	17.5	4.87	4.25 to 5.75	96.0	70.0 to 130	1.70	20.0
BC05076	Calcium, Total	mg/L	-0.00894	0.152	5.00	4.78	4.62	4.88	4.25 to 5.75	95.6	70.0 to 130	3.40	20.0
BC05076	Chloride	mg/L	-0.00495	1.00	10.0	10.1	9.84	10.1	9.00 to 11.0	101	80.0 to 120	2.61	20.0
BC05077	Chromium, Dissolved	mg/L	-0.000106	0.000440	0.100	0.0983	0.0951	0.102	0.0850 to 0.115	98.3	70.0 to 130	3.31	20.0
BC05076	Chromium, Total	mg/L	0.0000215	0.000440	0.100	0.0964	0.0976	0.100	0.0850 to 0.115	96.2	70.0 to 130	1.24	20.0
BC05077	Cobalt, Dissolved	mg/L	-0.0000005	0.000147	0.100	0.101	0.0979	0.104	0.0850 to 0.115	101	70.0 to 130	3.12	20.0
BC05076	Cobalt, Total	mg/L	0.0000085	0.000147	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC05076	Fluoride	mg/L	-0.0313	0.125	2.50	2.55	2.48	2.50	2.25 to 2.75	102	80.0 to 120	2.78	20.0
BC05077	Iron, Dissolved	mg/L	-0.000384	0.0176	0.2	0.248	0.241	0.199	0.170 to 0.230	100	70.0 to 130	2.86	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/9/22 10:09  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-15

**Laboratory ID Number:** BC05070

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05076	Iron, Total	mg/L	-0.000562	0.0176	0.2	0.197	0.196	0.199	0.170 to 0.230	98.5	70.0 to 130	0.509	20.0
BC05077	Lead, Dissolved	mg/L	0.0000104	0.000147	0.100	0.109	0.0948	0.101	0.0850 to 0.115	109	70.0 to 130	13.9	20.0
BC05076	Lead, Total	mg/L	0.0000118	0.000147	0.100	0.0973	0.0992	0.0985	0.0850 to 0.115	97.3	70.0 to 130	1.93	20.0
BC05077	Lithium, Dissolved	mg/L	-0.000318	0.0154	0.200	0.327	0.323	0.200	0.170 to 0.230	100	70.0 to 130	1.23	20.0
BC05076	Lithium, Total	mg/L	-0.000138	0.0154	0.200	0.204	0.206	0.201	0.170 to 0.230	102	70.0 to 130	0.976	20.0
BC05077	Magnesium, Dissolved	mg/L	-0.00178	0.0462	5.00	9.03	8.76	5.10	4.25 to 5.75	98.8	70.0 to 130	3.04	20.0
BC05076	Magnesium, Total	mg/L	0.00188	0.0462	5.00	5.20	5.18	5.16	4.25 to 5.75	104	70.0 to 130	0.385	20.0
BC05077	Manganese, Dissolved	mg/L	0.0000035	0.0002	0.100	0.118	0.113	0.104	0.0850 to 0.115	100	70.0 to 130	4.33	20.0
BC05076	Manganese, Total	mg/L	-0.0000019	0.0002	0.100	0.0991	0.0987	0.101	0.0850 to 0.115	99.1	70.0 to 130	0.404	20.0
BC05076	Mercury, Total by CVAA	mg/L	-4.000E-05	0.000500	0.004	0.00398	0.00398	0.00397	0.00340 to 0.00460	99.5	70.0 to 130	0.00	20.0
BC05077	Molybdenum, Dissolved	mg/L	0.0000115	0.0002	0.100	0.101	0.0943	0.0998	0.0850 to 0.115	98.9	70.0 to 130	6.86	20.0
BC05076	Molybdenum, Total	mg/L	0.0000253	0.0002	0.100	0.0951	0.0938	0.0993	0.0850 to 0.115	95.1	70.0 to 130	1.38	20.0
BC05077	Potassium, Dissolved	mg/L	0.0220	0.367	10.0	18.3	17.9	10.7	8.50 to 11.5	107	70.0 to 130	2.21	20.0
BC05076	Potassium, Total	mg/L	0.0236	0.367	10.0	9.72	9.67	9.94	8.50 to 11.5	97.2	70.0 to 130	0.516	20.0
BC05077	Selenium, Dissolved	mg/L	0.0000682	0.00100	0.100	0.0362	0.0417	0.102	0.0850 to 0.115	34.9	70.0 to 130	14.1	20.0
BC05076	Selenium, Total	mg/L	-0.000353	0.00100	0.100	0.0979	0.0971	0.103	0.0850 to 0.115	97.9	70.0 to 130	0.821	20.0
BC05077	Silicon, Dissolved	mg/L	-0.000427	0.0440	1.00	8.10	8.10	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC05076	Silicon, Total	mg/L	0.00024	0.0440	1.00	0.996	0.996	1.01	0.850 to 1.15	99.6	70.0 to 130	0.00	20.0
BC05077	Sodium, Dissolved	mg/L	0.000048	0.0660	5.00	341	375	5.02	4.25 to 5.75	40.0	70.0 to 130	9.50	20.0
BC05076	Sodium, Total	mg/L	0.000363	0.0660	5.00	5.12	5.15	5.04	4.25 to 5.75	100	70.0 to 130	0.584	20.0
BC05076	Sulfate	mg/L	0.243	2.0	20.0	20.5	19.8	19.8	18.0 to 22.0	102	80.0 to 120	3.47	20.0
BC05077	Thallium, Dissolved	mg/L	0.0000019	0.000147	0.100	0.107	0.0955	0.100	0.0850 to 0.115	107	70.0 to 130	11.4	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/9/22 10:09  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-15

**Laboratory ID Number:** BC05070

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05076	Thallium, Total	mg/L	0.0000115	0.000147	0.100	0.0966	0.0983	0.0978	0.0850 to 0.115	96.6	70.0 to 130	1.74	20.0
BC05076	Total Organic Carbon	mg/L	0.320	1.00	10.0	9.24	9.66	9.73		92.4	80.0 to 120	4.44	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

## Batch QC Summary

**Customer Account:** WMWMILAP

**Sample Date:** 3/9/22 10:09

**Customer ID:**

**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-15

**Laboratory ID Number:** BC05070

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05077	Alkalinity, Total as CaCO3	mg/L					499	50.9	45.0 to 55.0			7.27	10.0
BC05076	Nitrogen, Nitrate/Nitrite	mg/L as N	0.06	0.200	2.00	1.97	0.055	1.90	1.80 to 2.20	98.5	90.0 to 110	0.00	15.0
BC05072	Solids, Dissolved	mg/L	0.0000	25.0			218	50.0	40.0 to 60.0			0.460	10.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.



# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-15 DUP

**Location Code:** WMWMILAP  
**Collected:** 3/9/22 10:09  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05071

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	3/17/22 10:40	3/22/22 10:43		1.015	0.447	mg/L	0.030000	0.1015	
* Calcium, Total	3/17/22 10:40	3/22/22 10:43		1.015	39.5	mg/L	0.070035	0.406	
* Iron, Total	3/17/22 10:40	3/22/22 12:18		10.15	10.6	mg/L	0.08120	0.406	
* Lithium, Total	3/17/22 10:40	3/22/22 10:43		1.015	0.0176	mg/L	0.007105	0.01999956	J
* Magnesium, Total	3/17/22 10:40	3/22/22 10:43		1.015	12.3	mg/L	0.021315	0.406	
Silica, Total (calc.)	3/17/22 10:40	3/22/22 10:43		1	34.9	mg/L			
Silicon, Total	3/17/22 10:40	3/22/22 10:43		1.015	16.3	mg/L	0.02030	0.25375	
* Sodium, Total	3/17/22 10:40	3/22/22 10:43		1.015	19.9	mg/L	0.03045	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	3/17/22 14:16	3/23/22 10:21		1.015	0.439	mg/L	0.030000	0.1015	
* Calcium, Dissolved	3/17/22 14:16	3/23/22 11:59		10.15	41.0	mg/L	0.70035	4.06	
* Iron, Dissolved	3/17/22 14:16	3/23/22 11:59		10.15	9.50	mg/L	0.08120	0.406	
* Lithium, Dissolved	3/17/22 14:16	3/23/22 10:21		1.015	0.0173	mg/L	0.007105	0.01999956	J
* Magnesium, Dissolved	3/17/22 14:16	3/23/22 10:21		1.015	12.2	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	3/17/22 14:16	3/23/22 10:21		1	36.0	mg/L			
Silicon, Dissolved	3/17/22 14:16	3/23/22 10:21		1.015	16.8	mg/L	0.02030	0.25375	
* Sodium, Dissolved	3/17/22 14:16	3/23/22 10:21		1.015	19.8	mg/L	0.03045	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	3/11/22 11:09	3/11/22 19:55		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/11/22 11:09	3/11/22 19:55		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	3/11/22 11:09	3/11/22 19:55		1.015	0.000472	mg/L	0.000081	0.000203	
* Barium, Total	3/11/22 11:09	3/11/22 19:55		1.015	0.0260	mg/L	0.000102	0.000203	
* Beryllium, Total	3/11/22 11:09	3/11/22 19:55		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/11/22 11:09	3/11/22 19:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/11/22 11:09	3/11/22 19:55		1.015	0.000612	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/11/22 11:09	3/11/22 19:55		1.015	0.000681	mg/L	0.000068	0.000203	
* Lead, Total	3/11/22 11:09	3/11/22 19:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/11/22 11:09	3/11/22 19:55		1.015	0.594	mg/L	0.000152	0.000203	
* Molybdenum, Total	3/11/22 11:09	3/11/22 19:55		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	3/11/22 11:09	3/11/22 19:55		1.015	0.963	mg/L	0.169505	0.5075	

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-15 DUP

**Location Code:** WMWMILAP  
**Collected:** 3/9/22 10:09  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05071

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/11/22 11:09	3/11/22 19:55		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/11/22 11:09	3/11/22 19:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	3/11/22 13:40	3/11/22 16:13		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/11/22 13:40	3/11/22 16:13		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/11/22 13:40	3/11/22 16:13		1.015	0.000363	mg/L	0.000081	0.000203	
* Barium, Dissolved	3/11/22 13:40	3/11/22 16:13		1.015	0.0283	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/11/22 13:40	3/11/22 16:13		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/11/22 13:40	3/11/22 16:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/11/22 13:40	3/11/22 16:13		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	3/11/22 13:40	3/11/22 16:13		1.015	0.000762	mg/L	0.000068	0.000203	
* Lead, Dissolved	3/11/22 13:40	3/11/22 16:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/11/22 13:40	3/11/22 16:13		1.015	0.608	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/11/22 13:40	3/11/22 16:13		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	3/11/22 13:40	3/11/22 16:13		1.015	1.13	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/11/22 13:40	3/15/22 17:14		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/11/22 13:40	3/11/22 16:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	3/10/22 17:58	3/10/22 23:58		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	3/17/22 13:12	3/17/22 13:12		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity, Total as CaCO3	3/14/22 10:15	3/14/22 15:35		1	69.3	mg/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	3/11/22 10:40	3/14/22 13:47		1	263	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
Bicarbonate Alkalinity, (calc.)	3/14/22 10:15	3/14/22 15:35		1	69.2	mg/L			
Carbonate Alkalinity, (calc.)	3/14/22 10:15	3/14/22 15:35		1	0.08	mg/L			
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/15/22 21:21	3/15/22 21:21		1	Not Detected	mg/L	1.00	2	U

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-15 DUP

**Location Code:** WMWMILAP  
**Collected:** 3/9/22 10:09  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05071

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/11/22 13:39	3/11/22 13:39		1	17.6	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 09:33	3/22/22 09:33		1	0.165	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/23/22 15:45	3/23/22 15:45		8	120	mg/L	4.8	16	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	3/9/22 10:06	3/9/22 10:06			427.19	uS/cm			FA
pH	3/9/22 10:06	3/9/22 10:06			6.37	SU			FA
Temperature	3/9/22 10:06	3/9/22 10:06			20.66	C			FA
Turbidity	3/9/22 10:06	3/9/22 10:06			9.67	NTU			FA

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/9/22 10:09  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-15 DUP

**Laboratory ID Number:** BC05071

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05077	Aluminum, Dissolved	mg/L	-0.000823	0.010	0.100	0.110	0.105	0.109	0.0850 to 0.115	110	70.0 to 130	4.65	20.0
BC05076	Aluminum, Total	mg/L	-0.000102	0.010	0.100	0.0979	0.0969	0.102	0.0850 to 0.115	97.9	70.0 to 130	1.03	20.0
BC05077	Antimony, Dissolved	mg/L	0.000222	0.00100	0.100	0.0917	0.0891	0.0932	0.0850 to 0.115	91.7	70.0 to 130	2.88	20.0
BC05076	Antimony, Total	mg/L	0.000398	0.00100	0.100	0.0894	0.0902	0.0938	0.0850 to 0.115	89.4	70.0 to 130	0.891	20.0
BC05077	Arsenic, Dissolved	mg/L	0.0000046	0.000176	0.100	0.0973	0.0952	0.101	0.0850 to 0.115	96.8	70.0 to 130	2.18	20.0
BC05076	Arsenic, Total	mg/L	-0.0000174	0.000176	0.100	0.0988	0.0975	0.102	0.0850 to 0.115	98.8	70.0 to 130	1.32	20.0
BC05077	Barium, Dissolved	mg/L	0.0000160	0.000200	0.100	0.166	0.162	0.100	0.0850 to 0.115	101	70.0 to 130	2.44	20.0
BC05076	Barium, Total	mg/L	-0.0000079	0.000200	0.100	0.0948	0.0964	0.0979	0.0850 to 0.115	94.8	70.0 to 130	1.67	20.0
BC05077	Beryllium, Dissolved	mg/L	0.0000178	0.000880	0.100	0.116	0.104	0.109	0.0850 to 0.115	116	70.0 to 130	10.9	20.0
BC05076	Beryllium, Total	mg/L	0.0000199	0.000880	0.100	0.0890	0.0893	0.0937	0.0850 to 0.115	89.0	70.0 to 130	0.337	20.0
BC05077	Boron, Dissolved	mg/L	-0.000193	0.0650	1.00	1.14	1.13	1.02	0.850 to 1.15	103	70.0 to 130	0.881	20.0
BC05076	Boron, Total	mg/L	0.000004	0.0650	1.00	0.976	0.962	0.978	0.850 to 1.15	97.6	70.0 to 130	1.44	20.0
BC05077	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0987	0.0909	0.0989	0.0850 to 0.115	98.7	70.0 to 130	8.23	20.0
BC05076	Cadmium, Total	mg/L	0.0000059	0.000147	0.100	0.0970	0.0958	0.100	0.0850 to 0.115	97.0	70.0 to 130	1.24	20.0
BC05077	Calcium, Dissolved	mg/L	-0.0163	0.152	5.00	17.8	17.5	4.87	4.25 to 5.75	96.0	70.0 to 130	1.70	20.0
BC05076	Calcium, Total	mg/L	-0.00894	0.152	5.00	4.78	4.62	4.88	4.25 to 5.75	95.6	70.0 to 130	3.40	20.0
BC05076	Chloride	mg/L	-0.00495	1.00	10.0	10.1	9.84	10.1	9.00 to 11.0	101	80.0 to 120	2.61	20.0
BC05077	Chromium, Dissolved	mg/L	-0.000106	0.000440	0.100	0.0983	0.0951	0.102	0.0850 to 0.115	98.3	70.0 to 130	3.31	20.0
BC05076	Chromium, Total	mg/L	0.0000215	0.000440	0.100	0.0964	0.0976	0.100	0.0850 to 0.115	96.2	70.0 to 130	1.24	20.0
BC05077	Cobalt, Dissolved	mg/L	-0.0000005	0.000147	0.100	0.101	0.0979	0.104	0.0850 to 0.115	101	70.0 to 130	3.12	20.0
BC05076	Cobalt, Total	mg/L	0.0000085	0.000147	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC05076	Fluoride	mg/L	-0.0313	0.125	2.50	2.55	2.48	2.50	2.25 to 2.75	102	80.0 to 120	2.78	20.0
BC05077	Iron, Dissolved	mg/L	-0.000384	0.0176	0.2	0.248	0.241	0.199	0.170 to 0.230	100	70.0 to 130	2.86	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/9/22 10:09  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-15 DUP

**Laboratory ID Number:** BC05071

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05076	Iron, Total	mg/L	-0.000562	0.0176	0.2	0.197	0.196	0.199	0.170 to 0.230	98.5	70.0 to 130	0.509	20.0
BC05077	Lead, Dissolved	mg/L	0.0000104	0.000147	0.100	0.109	0.0948	0.101	0.0850 to 0.115	109	70.0 to 130	13.9	20.0
BC05076	Lead, Total	mg/L	0.0000118	0.000147	0.100	0.0973	0.0992	0.0985	0.0850 to 0.115	97.3	70.0 to 130	1.93	20.0
BC05077	Lithium, Dissolved	mg/L	-0.000318	0.0154	0.200	0.327	0.323	0.200	0.170 to 0.230	100	70.0 to 130	1.23	20.0
BC05076	Lithium, Total	mg/L	-0.000138	0.0154	0.200	0.204	0.206	0.201	0.170 to 0.230	102	70.0 to 130	0.976	20.0
BC05077	Magnesium, Dissolved	mg/L	-0.00178	0.0462	5.00	9.03	8.76	5.10	4.25 to 5.75	98.8	70.0 to 130	3.04	20.0
BC05076	Magnesium, Total	mg/L	0.00188	0.0462	5.00	5.20	5.18	5.16	4.25 to 5.75	104	70.0 to 130	0.385	20.0
BC05077	Manganese, Dissolved	mg/L	0.0000035	0.0002	0.100	0.118	0.113	0.104	0.0850 to 0.115	100	70.0 to 130	4.33	20.0
BC05076	Manganese, Total	mg/L	-0.0000019	0.0002	0.100	0.0991	0.0987	0.101	0.0850 to 0.115	99.1	70.0 to 130	0.404	20.0
BC05076	Mercury, Total by CVAA	mg/L	-4.000E-05	0.000500	0.004	0.00398	0.00398	0.00397	0.00340 to 0.00460	99.5	70.0 to 130	0.00	20.0
BC05077	Molybdenum, Dissolved	mg/L	0.0000115	0.0002	0.100	0.101	0.0943	0.0998	0.0850 to 0.115	98.9	70.0 to 130	6.86	20.0
BC05076	Molybdenum, Total	mg/L	0.0000253	0.0002	0.100	0.0951	0.0938	0.0993	0.0850 to 0.115	95.1	70.0 to 130	1.38	20.0
BC05077	Potassium, Dissolved	mg/L	0.0220	0.367	10.0	18.3	17.9	10.7	8.50 to 11.5	107	70.0 to 130	2.21	20.0
BC05076	Potassium, Total	mg/L	0.0236	0.367	10.0	9.72	9.67	9.94	8.50 to 11.5	97.2	70.0 to 130	0.516	20.0
BC05077	Selenium, Dissolved	mg/L	0.0000682	0.00100	0.100	0.0362	0.0417	0.102	0.0850 to 0.115	34.9	70.0 to 130	14.1	20.0
BC05076	Selenium, Total	mg/L	-0.000353	0.00100	0.100	0.0979	0.0971	0.103	0.0850 to 0.115	97.9	70.0 to 130	0.821	20.0
BC05077	Silicon, Dissolved	mg/L	-0.000427	0.0440	1.00	8.10	8.10	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC05076	Silicon, Total	mg/L	0.00024	0.0440	1.00	0.996	0.996	1.01	0.850 to 1.15	99.6	70.0 to 130	0.00	20.0
BC05077	Sodium, Dissolved	mg/L	0.000048	0.0660	5.00	341	375	5.02	4.25 to 5.75	40.0	70.0 to 130	9.50	20.0
BC05076	Sodium, Total	mg/L	0.000363	0.0660	5.00	5.12	5.15	5.04	4.25 to 5.75	100	70.0 to 130	0.584	20.0
BC05076	Sulfate	mg/L	0.243	2.0	20.0	20.5	19.8	19.8	18.0 to 22.0	102	80.0 to 120	3.47	20.0
BC05077	Thallium, Dissolved	mg/L	0.0000019	0.000147	0.100	0.107	0.0955	0.100	0.0850 to 0.115	107	70.0 to 130	11.4	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/9/22 10:09  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-15 DUP

**Laboratory ID Number:** BC05071

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05076	Thallium, Total	mg/L	0.0000115	0.000147	0.100	0.0966	0.0983	0.0978	0.0850 to 0.115	96.6	70.0 to 130	1.74	20.0
BC05076	Total Organic Carbon	mg/L	0.320	1.00	10.0	9.24	9.66	9.73		92.4	80.0 to 120	4.44	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

## Batch QC Summary

**Customer Account:** WMWMILAP

**Sample Date:** 3/9/22 10:09

**Customer ID:**

**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-15 DUP

**Laboratory ID Number:** BC05071

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05077	Alkalinity, Total as CaCO3	mg/L					499	50.9	45.0 to 55.0			7.27	10.0
BC05076	Nitrogen, Nitrate/Nitrite	mg/L as N	0.06	0.200	2.00	1.97	0.055	1.90	1.80 to 2.20	98.5	90.0 to 110	0.00	15.0
BC05072	Solids, Dissolved	mg/L	0.0000	25.0			218	50.0	40.0 to 60.0			0.460	10.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-14R

**Location Code:** WMWMILAP  
**Collected:** 3/9/22 11:38  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05072

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	3/17/22 10:40	3/22/22 10:45		1.015	0.0810	mg/L	0.030000	0.1015	J	
* Calcium, Total	3/17/22 10:40	3/22/22 10:45		1.015	36.6	mg/L	0.070035	0.406		
* Iron, Total	3/17/22 10:40	3/22/22 10:45		1.015	3.52	mg/L	0.008120	0.0406		
* Lithium, Total	3/17/22 10:40	3/22/22 10:45		1.015	0.0196	mg/L	0.007105	0.01999956	J	
* Magnesium, Total	3/17/22 10:40	3/22/22 10:45		1.015	15.7	mg/L	0.021315	0.406		
Silica, Total (calc.)	3/17/22 10:40	3/22/22 10:45		1	31.5	mg/L				
Silicon, Total	3/17/22 10:40	3/22/22 10:45		1.015	14.7	mg/L	0.02030	0.25375		
* Sodium, Total	3/17/22 10:40	3/22/22 10:45		1.015	11.5	mg/L	0.03045	0.406		
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Dissolved	3/17/22 14:16	3/23/22 10:23		1.015	0.0830	mg/L	0.030000	0.1015	J	
* Calcium, Dissolved	3/17/22 14:16	3/23/22 10:23		1.015	38.6	mg/L	0.070035	0.406		
* Iron, Dissolved	3/17/22 14:16	3/23/22 10:23		1.015	3.53	mg/L	0.008120	0.0406		
* Lithium, Dissolved	3/17/22 14:16	3/23/22 10:23		1.015	0.0193	mg/L	0.007105	0.01999956	J	
* Magnesium, Dissolved	3/17/22 14:16	3/23/22 10:23		1.015	15.9	mg/L	0.021315	0.406		
Silica, Dissolved (calc.)	3/17/22 14:16	3/23/22 10:23		1	32.1	mg/L				
Silicon, Dissolved	3/17/22 14:16	3/23/22 10:23		1.015	15.0	mg/L	0.02030	0.25375		
* Sodium, Dissolved	3/17/22 14:16	3/23/22 10:23		1.015	11.6	mg/L	0.03045	0.406		
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	3/11/22 11:09	3/11/22 19:59		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	3/11/22 11:09	3/11/22 19:59		1.015	0.0178	mg/L	0.006090	0.01015		
* Arsenic, Total	3/11/22 11:09	3/11/22 19:59		1.015	0.000186	mg/L	0.000081	0.000203	J	
* Barium, Total	3/11/22 11:09	3/11/22 19:59		1.015	0.101	mg/L	0.000102	0.000203		
* Beryllium, Total	3/11/22 11:09	3/11/22 19:59		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	3/11/22 11:09	3/11/22 19:59		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	3/11/22 11:09	3/11/22 19:59		1.015	Not Detected	mg/L	0.000203	0.001015	U	
* Cobalt, Total	3/11/22 11:09	3/11/22 19:59		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	3/11/22 11:09	3/11/22 19:59		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	3/11/22 11:09	3/11/22 19:59		1.015	0.177	mg/L	0.000152	0.000203		
* Molybdenum, Total	3/11/22 11:09	3/11/22 19:59		1.015	0.000116	mg/L	0.000102	0.000203	J	
* Potassium, Total	3/11/22 11:09	3/11/22 19:59		1.015	1.01	mg/L	0.169505	0.5075		

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.



# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-14R

**Location Code:** WMWMILAP  
**Collected:** 3/9/22 11:38  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05072

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/11/22 11:09	3/11/22 19:59		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/11/22 11:09	3/11/22 19:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	3/11/22 13:40	3/11/22 16:17		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/11/22 13:40	3/11/22 16:17		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/11/22 13:40	3/11/22 16:17		1.015	0.000184	mg/L	0.000081	0.000203	J
* Barium, Dissolved	3/11/22 13:40	3/11/22 16:17		1.015	0.102	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/11/22 13:40	3/11/22 16:17		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/11/22 13:40	3/11/22 16:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/11/22 13:40	3/11/22 16:17		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	3/11/22 13:40	3/11/22 16:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	3/11/22 13:40	3/11/22 16:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/11/22 13:40	3/11/22 16:17		1.015	0.176	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/11/22 13:40	3/11/22 16:17		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	3/11/22 13:40	3/11/22 16:17		1.015	1.13	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/11/22 13:40	3/15/22 17:17		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/11/22 13:40	3/11/22 16:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	3/10/22 17:58	3/11/22 00:02		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	3/17/22 13:14	3/17/22 13:14		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity, Total as CaCO3	3/14/22 10:15	3/14/22 15:35		1	140	mg/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	3/11/22 10:40	3/14/22 13:47		1	217	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
Bicarbonate Alkalinity, (calc.)	3/14/22 10:15	3/14/22 15:35		1	140	mg/L			
Carbonate Alkalinity, (calc.)	3/14/22 10:15	3/14/22 15:35		1	0.21	mg/L			
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/15/22 21:40	3/15/22 21:40		1	Not Detected	mg/L	1.00	2	U

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-14R

**Location Code:** WMWMILAP  
**Collected:** 3/9/22 11:38  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05072

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/11/22 13:40	3/11/22 13:40		1	7.96	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 09:34	3/22/22 09:34		1	0.188	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/23/22 15:46	3/23/22 15:46		2	48.7	mg/L	1.2	4	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	3/9/22 11:34	3/9/22 11:34			345.22	uS/cm			FA
pH	3/9/22 11:34	3/9/22 11:34			6.53	SU			FA
Temperature	3/9/22 11:34	3/9/22 11:34			19.03	C			FA
Turbidity	3/9/22 11:34	3/9/22 11:34			2.1	NTU			FA

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/9/22 11:38  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-14R

**Laboratory ID Number:** BC05072

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BC05077	Aluminum, Dissolved	mg/L	-0.000823	0.010	0.100	0.110	0.105	0.109	0.0850 to 0.115	110	70.0 to 130	4.65	20.0
BC05076	Aluminum, Total	mg/L	-0.000102	0.010	0.100	0.0979	0.0969	0.102	0.0850 to 0.115	97.9	70.0 to 130	1.03	20.0
BC05077	Antimony, Dissolved	mg/L	0.000222	0.00100	0.100	0.0917	0.0891	0.0932	0.0850 to 0.115	91.7	70.0 to 130	2.88	20.0
BC05076	Antimony, Total	mg/L	0.000398	0.00100	0.100	0.0894	0.0902	0.0938	0.0850 to 0.115	89.4	70.0 to 130	0.891	20.0
BC05077	Arsenic, Dissolved	mg/L	0.0000046	0.000176	0.100	0.0973	0.0952	0.101	0.0850 to 0.115	96.8	70.0 to 130	2.18	20.0
BC05076	Arsenic, Total	mg/L	-0.0000174	0.000176	0.100	0.0988	0.0975	0.102	0.0850 to 0.115	98.8	70.0 to 130	1.32	20.0
BC05077	Barium, Dissolved	mg/L	0.0000160	0.000200	0.100	0.166	0.162	0.100	0.0850 to 0.115	101	70.0 to 130	2.44	20.0
BC05076	Barium, Total	mg/L	-0.0000079	0.000200	0.100	0.0948	0.0964	0.0979	0.0850 to 0.115	94.8	70.0 to 130	1.67	20.0
BC05077	Beryllium, Dissolved	mg/L	0.0000178	0.000880	0.100	0.116	0.104	0.109	0.0850 to 0.115	116	70.0 to 130	10.9	20.0
BC05076	Beryllium, Total	mg/L	0.0000199	0.000880	0.100	0.0890	0.0893	0.0937	0.0850 to 0.115	89.0	70.0 to 130	0.337	20.0
BC05077	Boron, Dissolved	mg/L	-0.000193	0.0650	1.00	1.14	1.13	1.02	0.850 to 1.15	103	70.0 to 130	0.881	20.0
BC05076	Boron, Total	mg/L	0.000004	0.0650	1.00	0.976	0.962	0.978	0.850 to 1.15	97.6	70.0 to 130	1.44	20.0
BC05077	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0987	0.0909	0.0989	0.0850 to 0.115	98.7	70.0 to 130	8.23	20.0
BC05076	Cadmium, Total	mg/L	0.0000059	0.000147	0.100	0.0970	0.0958	0.100	0.0850 to 0.115	97.0	70.0 to 130	1.24	20.0
BC05077	Calcium, Dissolved	mg/L	-0.0163	0.152	5.00	17.8	17.5	4.87	4.25 to 5.75	96.0	70.0 to 130	1.70	20.0
BC05076	Calcium, Total	mg/L	-0.00894	0.152	5.00	4.78	4.62	4.88	4.25 to 5.75	95.6	70.0 to 130	3.40	20.0
BC05076	Chloride	mg/L	-0.00495	1.00	10.0	10.1	9.84	10.1	9.00 to 11.0	101	80.0 to 120	2.61	20.0
BC05077	Chromium, Dissolved	mg/L	-0.000106	0.000440	0.100	0.0983	0.0951	0.102	0.0850 to 0.115	98.3	70.0 to 130	3.31	20.0
BC05076	Chromium, Total	mg/L	0.0000215	0.000440	0.100	0.0964	0.0976	0.100	0.0850 to 0.115	96.2	70.0 to 130	1.24	20.0
BC05077	Cobalt, Dissolved	mg/L	-0.0000005	0.000147	0.100	0.101	0.0979	0.104	0.0850 to 0.115	101	70.0 to 130	3.12	20.0
BC05076	Cobalt, Total	mg/L	0.0000085	0.000147	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC05076	Fluoride	mg/L	-0.0313	0.125	2.50	2.55	2.48	2.50	2.25 to 2.75	102	80.0 to 120	2.78	20.0
BC05077	Iron, Dissolved	mg/L	-0.000384	0.0176	0.2	0.248	0.241	0.199	0.170 to 0.230	100	70.0 to 130	2.86	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/9/22 11:38  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-14R

**Laboratory ID Number:** BC05072

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05076	Iron, Total	mg/L	-0.000562	0.0176	0.2	0.197	0.196	0.199	0.170 to 0.230	98.5	70.0 to 130	0.509	20.0
BC05077	Lead, Dissolved	mg/L	0.0000104	0.000147	0.100	0.109	0.0948	0.101	0.0850 to 0.115	109	70.0 to 130	13.9	20.0
BC05076	Lead, Total	mg/L	0.0000118	0.000147	0.100	0.0973	0.0992	0.0985	0.0850 to 0.115	97.3	70.0 to 130	1.93	20.0
BC05077	Lithium, Dissolved	mg/L	-0.000318	0.0154	0.200	0.327	0.323	0.200	0.170 to 0.230	100	70.0 to 130	1.23	20.0
BC05076	Lithium, Total	mg/L	-0.000138	0.0154	0.200	0.204	0.206	0.201	0.170 to 0.230	102	70.0 to 130	0.976	20.0
BC05077	Magnesium, Dissolved	mg/L	-0.00178	0.0462	5.00	9.03	8.76	5.10	4.25 to 5.75	98.8	70.0 to 130	3.04	20.0
BC05076	Magnesium, Total	mg/L	0.00188	0.0462	5.00	5.20	5.18	5.16	4.25 to 5.75	104	70.0 to 130	0.385	20.0
BC05077	Manganese, Dissolved	mg/L	0.0000035	0.0002	0.100	0.118	0.113	0.104	0.0850 to 0.115	100	70.0 to 130	4.33	20.0
BC05076	Manganese, Total	mg/L	-0.0000019	0.0002	0.100	0.0991	0.0987	0.101	0.0850 to 0.115	99.1	70.0 to 130	0.404	20.0
BC05076	Mercury, Total by CVAA	mg/L	-4.000E-05	0.000500	0.004	0.00398	0.00398	0.00397	0.00340 to 0.00460	99.5	70.0 to 130	0.00	20.0
BC05077	Molybdenum, Dissolved	mg/L	0.0000115	0.0002	0.100	0.101	0.0943	0.0998	0.0850 to 0.115	98.9	70.0 to 130	6.86	20.0
BC05076	Molybdenum, Total	mg/L	0.0000253	0.0002	0.100	0.0951	0.0938	0.0993	0.0850 to 0.115	95.1	70.0 to 130	1.38	20.0
BC05077	Potassium, Dissolved	mg/L	0.0220	0.367	10.0	18.3	17.9	10.7	8.50 to 11.5	107	70.0 to 130	2.21	20.0
BC05076	Potassium, Total	mg/L	0.0236	0.367	10.0	9.72	9.67	9.94	8.50 to 11.5	97.2	70.0 to 130	0.516	20.0
BC05077	Selenium, Dissolved	mg/L	0.0000682	0.00100	0.100	0.0362	0.0417	0.102	0.0850 to 0.115	34.9	70.0 to 130	14.1	20.0
BC05076	Selenium, Total	mg/L	-0.000353	0.00100	0.100	0.0979	0.0971	0.103	0.0850 to 0.115	97.9	70.0 to 130	0.821	20.0
BC05077	Silicon, Dissolved	mg/L	-0.000427	0.0440	1.00	8.10	8.10	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC05076	Silicon, Total	mg/L	0.00024	0.0440	1.00	0.996	0.996	1.01	0.850 to 1.15	99.6	70.0 to 130	0.00	20.0
BC05077	Sodium, Dissolved	mg/L	0.000048	0.0660	5.00	341	375	5.02	4.25 to 5.75	40.0	70.0 to 130	9.50	20.0
BC05076	Sodium, Total	mg/L	0.000363	0.0660	5.00	5.12	5.15	5.04	4.25 to 5.75	100	70.0 to 130	0.584	20.0
BC05076	Sulfate	mg/L	0.243	2.0	20.0	20.5	19.8	19.8	18.0 to 22.0	102	80.0 to 120	3.47	20.0
BC05077	Thallium, Dissolved	mg/L	0.0000019	0.000147	0.100	0.107	0.0955	0.100	0.0850 to 0.115	107	70.0 to 130	11.4	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/9/22 11:38  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-14R

**Laboratory ID Number:** BC05072

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05076	Thallium, Total	mg/L	0.0000115	0.000147	0.100	0.0966	0.0983	0.0978	0.0850 to 0.115	96.6	70.0 to 130	1.74	20.0
BC05076	Total Organic Carbon	mg/L	0.320	1.00	10.0	9.24	9.66	9.73		92.4	80.0 to 120	4.44	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

## Batch QC Summary

**Customer Account:** WMWMILAP

**Sample Date:** 3/9/22 11:38

**Customer ID:**

**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-14R

**Laboratory ID Number:** BC05072

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec Rec	Rec Limit	Prec	Prec Limit
BC05077	Alkalinity, Total as CaCO3	mg/L					499	50.9	45.0 to 55.0			7.27	10.0
BC05076	Nitrogen, Nitrate/Nitrite	mg/L as N	0.06	0.200	2.00	1.97	0.055	1.90	1.80 to 2.20	98.5	90.0 to 110	0.00	15.0
BC05072	Solids, Dissolved	mg/L	0.0000	25.0			218	50.0	40.0 to 60.0			0.460	10.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-13DR

**Location Code:** WMWMILAP  
**Collected:** 3/9/22 13:27  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05073

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	3/17/22 10:40	3/22/22 10:47		1.015	0.0558	mg/L	0.030000	0.1015	J
* Calcium, Total	3/17/22 10:40	3/22/22 12:20		10.15	73.0	mg/L	0.70035	4.06	
* Iron, Total	3/17/22 10:40	3/22/22 10:47		1.015	0.358	mg/L	0.008120	0.0406	
* Lithium, Total	3/17/22 10:40	3/22/22 10:47		1.015	0.0310	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/17/22 10:40	3/22/22 10:47		1.015	31.5	mg/L	0.021315	0.406	
Silica, Total (calc.)	3/17/22 10:40	3/22/22 10:47		1	20.1	mg/L			
Silicon, Total	3/17/22 10:40	3/22/22 10:47		1.015	9.37	mg/L	0.02030	0.25375	
* Sodium, Total	3/17/22 10:40	3/22/22 12:20		10.15	82.4	mg/L	0.3045	4.06	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	3/17/22 14:16	3/23/22 10:25		1.015	0.0490	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	3/17/22 14:16	3/23/22 12:01		10.15	70.3	mg/L	0.70035	4.06	
* Iron, Dissolved	3/17/22 14:16	3/23/22 10:25		1.015	0.266	mg/L	0.008120	0.0406	
* Lithium, Dissolved	3/17/22 14:16	3/23/22 10:25		1.015	0.0320	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	3/17/22 14:16	3/23/22 10:25		1.015	28.9	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	3/17/22 14:16	3/23/22 10:25		1	22.3	mg/L			
Silicon, Dissolved	3/17/22 14:16	3/23/22 10:25		1.015	10.4	mg/L	0.02030	0.25375	
* Sodium, Dissolved	3/17/22 14:16	3/23/22 12:01		10.15	72.6	mg/L	0.3045	4.06	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	3/11/22 11:09	3/11/22 20:02		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/11/22 11:09	3/11/22 20:02		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	3/11/22 11:09	3/11/22 20:02		1.015	0.000659	mg/L	0.000081	0.000203	
* Barium, Total	3/11/22 11:09	3/11/22 20:02		1.015	0.0618	mg/L	0.000102	0.000203	
* Beryllium, Total	3/11/22 11:09	3/11/22 20:02		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/11/22 11:09	3/11/22 20:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/11/22 11:09	3/11/22 20:02		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	3/11/22 11:09	3/11/22 20:02		1.015	0.000664	mg/L	0.000068	0.000203	
* Lead, Total	3/11/22 11:09	3/11/22 20:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/11/22 11:09	3/11/22 20:02		1.015	0.125	mg/L	0.000152	0.000203	
* Molybdenum, Total	3/11/22 11:09	3/11/22 20:02		1.015	0.00325	mg/L	0.000102	0.000203	
* Potassium, Total	3/11/22 11:09	3/11/22 20:02		1.015	4.45	mg/L	0.169505	0.5075	

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-13DR

**Location Code:** WMWMILAP  
**Collected:** 3/9/22 13:27  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05073

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/11/22 11:09	3/11/22 20:02		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/11/22 11:09	3/11/22 20:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	3/11/22 13:40	3/11/22 16:20		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/11/22 13:40	3/11/22 16:20		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/11/22 13:40	3/11/22 16:20		1.015	0.000450	mg/L	0.000081	0.000203	
* Barium, Dissolved	3/11/22 13:40	3/11/22 16:20		1.015	0.0575	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/11/22 13:40	3/11/22 16:20		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/11/22 13:40	3/11/22 16:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/11/22 13:40	3/11/22 16:20		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	3/11/22 13:40	3/11/22 16:20		1.015	0.000656	mg/L	0.000068	0.000203	
* Lead, Dissolved	3/11/22 13:40	3/11/22 16:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/11/22 13:40	3/11/22 16:20		1.015	0.105	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/11/22 13:40	3/11/22 16:20		1.015	0.00281	mg/L	0.000102	0.000203	
* Potassium, Dissolved	3/11/22 13:40	3/11/22 16:20		1.015	4.72	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/11/22 13:40	3/15/22 17:21		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/11/22 13:40	3/11/22 16:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	3/10/22 17:58	3/11/22 00:05		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	3/17/22 13:16	3/17/22 13:16		1	0.514	mg/L as N	0.20	0.3	
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity, Total as CaCO3	3/14/22 10:15	3/14/22 15:35		1	205	mg/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	3/16/22 11:00	3/17/22 13:20		1	574	mg/L		50	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
Bicarbonate Alkalinity, (calc.)	3/14/22 10:15	3/14/22 15:35		1	205	mg/L			A
Carbonate Alkalinity, (calc.)	3/14/22 10:15	3/14/22 15:35		1	0.24	mg/L			A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/15/22 21:57	3/15/22 21:57		1	Not Detected	mg/L	1.00	2	U

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.



# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-13DR

**Location Code:** WMWMILAP  
**Collected:** 3/9/22 13:27  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05073

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/11/22 13:48	3/11/22 13:48		4	45.8	mg/L	2.00	4	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 09:35	3/22/22 09:35		1	0.179	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/23/22 15:47	3/23/22 15:47		16	210	mg/L	9.6	32	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	3/9/22 13:24	3/9/22 13:24			813.56	uS/cm			FA
pH	3/9/22 13:24	3/9/22 13:24			6.97	SU			FA
Temperature	3/9/22 13:24	3/9/22 13:24			18.47	C			FA
Turbidity	3/9/22 13:24	3/9/22 13:24			1.02	NTU			FA

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/9/22 13:27  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-13DR

**Laboratory ID Number:** BC05073

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BC05077	Aluminum, Dissolved	mg/L	-0.000823	0.010	0.100	0.110	0.105	0.109	0.0850 to 0.115	110	70.0 to 130	4.65	20.0	
BC05076	Aluminum, Total	mg/L	-0.000102	0.010	0.100	0.0979	0.0969	0.102	0.0850 to 0.115	97.9	70.0 to 130	1.03	20.0	
BC05077	Antimony, Dissolved	mg/L	0.000222	0.00100	0.100	0.0917	0.0891	0.0932	0.0850 to 0.115	91.7	70.0 to 130	2.88	20.0	
BC05076	Antimony, Total	mg/L	0.000398	0.00100	0.100	0.0894	0.0902	0.0938	0.0850 to 0.115	89.4	70.0 to 130	0.891	20.0	
BC05077	Arsenic, Dissolved	mg/L	0.0000046	0.000176	0.100	0.0973	0.0952	0.101	0.0850 to 0.115	96.8	70.0 to 130	2.18	20.0	
BC05076	Arsenic, Total	mg/L	-0.0000174	0.000176	0.100	0.0988	0.0975	0.102	0.0850 to 0.115	98.8	70.0 to 130	1.32	20.0	
BC05077	Barium, Dissolved	mg/L	0.0000160	0.000200	0.100	0.166	0.162	0.100	0.0850 to 0.115	101	70.0 to 130	2.44	20.0	
BC05076	Barium, Total	mg/L	-0.0000079	0.000200	0.100	0.0948	0.0964	0.0979	0.0850 to 0.115	94.8	70.0 to 130	1.67	20.0	
BC05077	Beryllium, Dissolved	mg/L	0.0000178	0.000880	0.100	0.116	0.104	0.109	0.0850 to 0.115	116	70.0 to 130	10.9	20.0	
BC05076	Beryllium, Total	mg/L	0.0000199	0.000880	0.100	0.0890	0.0893	0.0937	0.0850 to 0.115	89.0	70.0 to 130	0.337	20.0	
BC05077	Boron, Dissolved	mg/L	-0.000193	0.0650	1.00	1.14	1.13	1.02	0.850 to 1.15	103	70.0 to 130	0.881	20.0	
BC05076	Boron, Total	mg/L	0.000004	0.0650	1.00	0.976	0.962	0.978	0.850 to 1.15	97.6	70.0 to 130	1.44	20.0	
BC05077	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0987	0.0909	0.0989	0.0850 to 0.115	98.7	70.0 to 130	8.23	20.0	
BC05076	Cadmium, Total	mg/L	0.0000059	0.000147	0.100	0.0970	0.0958	0.100	0.0850 to 0.115	97.0	70.0 to 130	1.24	20.0	
BC05077	Calcium, Dissolved	mg/L	-0.0163	0.152	5.00	17.8	17.5	4.87	4.25 to 5.75	96.0	70.0 to 130	1.70	20.0	
BC05076	Calcium, Total	mg/L	-0.00894	0.152	5.00	4.78	4.62	4.88	4.25 to 5.75	95.6	70.0 to 130	3.40	20.0	
BC05076	Chloride	mg/L	-0.00495	1.00	10.0	10.1	9.84	10.1	9.00 to 11.0	101	80.0 to 120	2.61	20.0	
BC05077	Chromium, Dissolved	mg/L	-0.000106	0.000440	0.100	0.0983	0.0951	0.102	0.0850 to 0.115	98.3	70.0 to 130	3.31	20.0	
BC05076	Chromium, Total	mg/L	0.0000215	0.000440	0.100	0.0964	0.0976	0.100	0.0850 to 0.115	96.2	70.0 to 130	1.24	20.0	
BC05077	Cobalt, Dissolved	mg/L	-0.0000005	0.000147	0.100	0.101	0.0979	0.104	0.0850 to 0.115	101	70.0 to 130	3.12	20.0	
BC05076	Cobalt, Total	mg/L	0.0000085	0.000147	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0	
BC05076	Fluoride	mg/L	-0.0313	0.125	2.50	2.55	2.48	2.50	2.25 to 2.75	102	80.0 to 120	2.78	20.0	
BC05077	Iron, Dissolved	mg/L	-0.000384	0.0176	0.2	0.248	0.241	0.199	0.170 to 0.230	100	70.0 to 130	2.86	20.0	

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/9/22 13:27  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-13DR

**Laboratory ID Number:** BC05073

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05076	Iron, Total	mg/L	-0.000562	0.0176	0.2	0.197	0.196	0.199	0.170 to 0.230	98.5	70.0 to 130	0.509	20.0
BC05077	Lead, Dissolved	mg/L	0.0000104	0.000147	0.100	0.109	0.0948	0.101	0.0850 to 0.115	109	70.0 to 130	13.9	20.0
BC05076	Lead, Total	mg/L	0.0000118	0.000147	0.100	0.0973	0.0992	0.0985	0.0850 to 0.115	97.3	70.0 to 130	1.93	20.0
BC05077	Lithium, Dissolved	mg/L	-0.000318	0.0154	0.200	0.327	0.323	0.200	0.170 to 0.230	100	70.0 to 130	1.23	20.0
BC05076	Lithium, Total	mg/L	-0.000138	0.0154	0.200	0.204	0.206	0.201	0.170 to 0.230	102	70.0 to 130	0.976	20.0
BC05077	Magnesium, Dissolved	mg/L	-0.00178	0.0462	5.00	9.03	8.76	5.10	4.25 to 5.75	98.8	70.0 to 130	3.04	20.0
BC05076	Magnesium, Total	mg/L	0.00188	0.0462	5.00	5.20	5.18	5.16	4.25 to 5.75	104	70.0 to 130	0.385	20.0
BC05077	Manganese, Dissolved	mg/L	0.0000035	0.0002	0.100	0.118	0.113	0.104	0.0850 to 0.115	100	70.0 to 130	4.33	20.0
BC05076	Manganese, Total	mg/L	-0.0000019	0.0002	0.100	0.0991	0.0987	0.101	0.0850 to 0.115	99.1	70.0 to 130	0.404	20.0
BC05076	Mercury, Total by CVAA	mg/L	-4.000E-05	0.000500	0.004	0.00398	0.00398	0.00397	0.00340 to 0.00460	99.5	70.0 to 130	0.00	20.0
BC05077	Molybdenum, Dissolved	mg/L	0.0000115	0.0002	0.100	0.101	0.0943	0.0998	0.0850 to 0.115	98.9	70.0 to 130	6.86	20.0
BC05076	Molybdenum, Total	mg/L	0.0000253	0.0002	0.100	0.0951	0.0938	0.0993	0.0850 to 0.115	95.1	70.0 to 130	1.38	20.0
BC05077	Potassium, Dissolved	mg/L	0.0220	0.367	10.0	18.3	17.9	10.7	8.50 to 11.5	107	70.0 to 130	2.21	20.0
BC05076	Potassium, Total	mg/L	0.0236	0.367	10.0	9.72	9.67	9.94	8.50 to 11.5	97.2	70.0 to 130	0.516	20.0
BC05077	Selenium, Dissolved	mg/L	0.0000682	0.00100	0.100	0.0362	0.0417	0.102	0.0850 to 0.115	34.9	70.0 to 130	14.1	20.0
BC05076	Selenium, Total	mg/L	-0.000353	0.00100	0.100	0.0979	0.0971	0.103	0.0850 to 0.115	97.9	70.0 to 130	0.821	20.0
BC05077	Silicon, Dissolved	mg/L	-0.000427	0.0440	1.00	8.10	8.10	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC05076	Silicon, Total	mg/L	0.00024	0.0440	1.00	0.996	0.996	1.01	0.850 to 1.15	99.6	70.0 to 130	0.00	20.0
BC05077	Sodium, Dissolved	mg/L	0.000048	0.0660	5.00	341	375	5.02	4.25 to 5.75	40.0	70.0 to 130	9.50	20.0
BC05076	Sodium, Total	mg/L	0.000363	0.0660	5.00	5.12	5.15	5.04	4.25 to 5.75	100	70.0 to 130	0.584	20.0
BC05076	Sulfate	mg/L	0.243	2.0	20.0	20.5	19.8	19.8	18.0 to 22.0	102	80.0 to 120	3.47	20.0
BC05077	Thallium, Dissolved	mg/L	0.0000019	0.000147	0.100	0.107	0.0955	0.100	0.0850 to 0.115	107	70.0 to 130	11.4	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/9/22 13:27  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-13DR

**Laboratory ID Number:** BC05073

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BC05076	Thallium, Total	mg/L	0.0000115	0.000147	0.100	0.0966	0.0983	0.0978	0.0850 to 0.115	96.6	70.0 to 130	1.74	20.0
BC05076	Total Organic Carbon	mg/L	0.320	1.00	10.0	9.24	9.66	9.73		92.4	80.0 to 120	4.44	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

## Batch QC Summary

**Customer Account:** WMWMILAP

**Sample Date:** 3/9/22 13:27

**Customer ID:**

**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-13DR

**Laboratory ID Number:** BC05073

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05077	Alkalinity, Total as CaCO3	mg/L					499	50.9	45.0 to 55.0			7.27	10.0
BC05076	Nitrogen, Nitrate/Nitrite	mg/L as N	0.06	0.200	2.00	1.97	0.055	1.90	1.80 to 2.20	98.5	90.0 to 110	0.00	15.0
BC05460	Solids, Dissolved	mg/L	0.0000	25.0			1200	51.0	40.0 to 60.0			0.837	10.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-13SR

**Location Code:** WMWMILAP  
**Collected:** 3/9/22 15:10  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05074

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	3/17/22 10:40	3/22/22 10:49		1.015	0.0421	mg/L	0.030000	0.1015	J
* Calcium, Total	3/17/22 10:40	3/22/22 12:22		10.15	96.8	mg/L	0.70035	4.06	
* Iron, Total	3/17/22 10:40	3/22/22 12:22		10.15	15.9	mg/L	0.08120	0.406	
* Lithium, Total	3/17/22 10:40	3/22/22 10:49		1.015	0.0215	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/17/22 10:40	3/22/22 12:22		10.15	163	mg/L	0.21315	4.06	
Silica, Total (calc.)	3/17/22 10:40	3/22/22 10:49		1	19.2	mg/L			
Silicon, Total	3/17/22 10:40	3/22/22 10:49		1.015	8.99	mg/L	0.02030	0.25375	
* Sodium, Total	3/17/22 10:40	3/22/22 10:49		1.015	28.1	mg/L	0.03045	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	3/17/22 14:16	3/23/22 10:27		1.015	0.0425	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	3/17/22 14:16	3/23/22 12:03		10.15	106	mg/L	0.70035	4.06	
* Iron, Dissolved	3/17/22 14:16	3/23/22 12:03		10.15	16.2	mg/L	0.08120	0.406	
* Lithium, Dissolved	3/17/22 14:16	3/23/22 10:27		1.015	0.0216	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	3/17/22 14:16	3/23/22 12:03		10.15	170	mg/L	0.21315	4.06	
Silica, Dissolved (calc.)	3/17/22 14:16	3/23/22 10:27		1	20.2	mg/L			
Silicon, Dissolved	3/17/22 14:16	3/23/22 10:27		1.015	9.45	mg/L	0.02030	0.25375	
* Sodium, Dissolved	3/17/22 14:16	3/23/22 10:27		1.015	28.8	mg/L	0.03045	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	3/11/22 11:09	3/11/22 20:06		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/11/22 11:09	3/11/22 20:06		1.015	0.0856	mg/L	0.006090	0.01015	
* Arsenic, Total	3/11/22 11:09	3/11/22 20:06		1.015	0.00155	mg/L	0.000081	0.000203	
* Barium, Total	3/11/22 11:09	3/11/22 20:06		1.015	0.0216	mg/L	0.000102	0.000203	
* Beryllium, Total	3/11/22 11:09	3/11/22 20:06		1.015	0.00171	mg/L	0.000406	0.001015	
* Cadmium, Total	3/11/22 11:09	3/11/22 20:06		1.015	0.0000960	mg/L	0.000068	0.000203	J
* Chromium, Total	3/11/22 11:09	3/11/22 20:06		1.015	0.000675	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/11/22 11:09	3/11/22 20:06		1.015	0.0824	mg/L	0.000068	0.000203	
* Lead, Total	3/11/22 11:09	3/11/22 20:06		1.015	0.000112	mg/L	0.000068	0.000203	J
* Manganese, Total	3/11/22 11:09	3/15/22 16:34		5.075	2.80	mg/L	0.000761	0.001015	
* Molybdenum, Total	3/11/22 11:09	3/11/22 20:06		1.015	0.000137	mg/L	0.000102	0.000203	J
* Potassium, Total	3/11/22 11:09	3/11/22 20:06		1.015	4.01	mg/L	0.169505	0.5075	

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-13SR

**Location Code:** WMWMILAP  
**Collected:** 3/9/22 15:10  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05074

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/11/22 11:09	3/11/22 20:06		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/11/22 11:09	3/11/22 20:06		1.015	0.000133	mg/L	0.000068	0.000203	J
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	3/11/22 13:40	3/11/22 16:24		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/11/22 13:40	3/11/22 16:24		1.015	0.174	mg/L	0.006090	0.01015	
* Arsenic, Dissolved	3/11/22 13:40	3/11/22 16:24		1.015	0.00154	mg/L	0.000081	0.000203	
* Barium, Dissolved	3/11/22 13:40	3/11/22 16:24		1.015	0.0235	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/11/22 13:40	3/11/22 16:24		1.015	0.00251	mg/L	0.000406	0.001015	
* Cadmium, Dissolved	3/11/22 13:40	3/11/22 16:24		1.015	0.0000971	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	3/11/22 13:40	3/11/22 16:24		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	3/11/22 13:40	3/11/22 16:24		1.015	0.0870	mg/L	0.000068	0.000203	
* Lead, Dissolved	3/11/22 13:40	3/11/22 16:24		1.015	0.0000988	mg/L	0.000068	0.000203	J
* Manganese, Dissolved	3/11/22 13:40	3/15/22 16:49		5.075	2.75	mg/L	0.000761	0.001015	
* Molybdenum, Dissolved	3/11/22 13:40	3/11/22 16:24		1.015	0.000131	mg/L	0.000102	0.000203	J
* Potassium, Dissolved	3/11/22 13:40	3/11/22 16:24		1.015	4.55	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/11/22 13:40	3/15/22 17:24		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/11/22 13:40	3/11/22 16:24		1.015	0.000148	mg/L	0.000068	0.000203	J
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	3/10/22 17:58	3/11/22 00:09		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	3/17/22 13:18	3/17/22 13:18		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity, Total as CaCO3	3/14/22 10:15	3/14/22 15:35		1	71.3	mg/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	3/16/22 11:00	3/17/22 13:20		1	1300	mg/L		75.8	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
Bicarbonate Alkalinity, (calc.)	3/14/22 10:15	3/14/22 15:35		1	71.1	mg/L			A
Carbonate Alkalinity, (calc.)	3/14/22 10:15	3/14/22 15:35		1	0.15	mg/L			A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/15/22 22:15	3/15/22 22:15		1	2.07	mg/L	1.00	2	

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-13SR

**Location Code:** WMWMILAP  
**Collected:** 3/9/22 15:10  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:10

**Laboratory ID Number:** BC05074

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/11/22 13:42	3/11/22 13:42		1	4.71	mg/L	0.5	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 09:36	3/22/22 09:36		1	0.573	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/23/22 15:48	3/23/22 15:48		50	902	mg/L	30.0	100	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	3/9/22 15:06	3/9/22 15:06			1370.22	uS/cm			FA
pH	3/9/22 15:06	3/9/22 15:06			6.05	SU			FA
Temperature	3/9/22 15:06	3/9/22 15:06			19.26	C			FA
Turbidity	3/9/22 15:06	3/9/22 15:06			1.18	NTU			FA

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.



# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/9/22 15:10  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-13SR

**Laboratory ID Number:** BC05074

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BC05077	Aluminum, Dissolved	mg/L	-0.000823	0.010	0.100	0.110	0.105	0.109	0.0850 to 0.115	110	70.0 to 130	4.65	20.0
BC05076	Aluminum, Total	mg/L	-0.000102	0.010	0.100	0.0979	0.0969	0.102	0.0850 to 0.115	97.9	70.0 to 130	1.03	20.0
BC05077	Antimony, Dissolved	mg/L	0.000222	0.00100	0.100	0.0917	0.0891	0.0932	0.0850 to 0.115	91.7	70.0 to 130	2.88	20.0
BC05076	Antimony, Total	mg/L	0.000398	0.00100	0.100	0.0894	0.0902	0.0938	0.0850 to 0.115	89.4	70.0 to 130	0.891	20.0
BC05077	Arsenic, Dissolved	mg/L	0.0000046	0.000176	0.100	0.0973	0.0952	0.101	0.0850 to 0.115	96.8	70.0 to 130	2.18	20.0
BC05076	Arsenic, Total	mg/L	-0.0000174	0.000176	0.100	0.0988	0.0975	0.102	0.0850 to 0.115	98.8	70.0 to 130	1.32	20.0
BC05077	Barium, Dissolved	mg/L	0.0000160	0.000200	0.100	0.166	0.162	0.100	0.0850 to 0.115	101	70.0 to 130	2.44	20.0
BC05076	Barium, Total	mg/L	-0.0000079	0.000200	0.100	0.0948	0.0964	0.0979	0.0850 to 0.115	94.8	70.0 to 130	1.67	20.0
BC05077	Beryllium, Dissolved	mg/L	0.0000178	0.000880	0.100	0.116	0.104	0.109	0.0850 to 0.115	116	70.0 to 130	10.9	20.0
BC05076	Beryllium, Total	mg/L	0.0000199	0.000880	0.100	0.0890	0.0893	0.0937	0.0850 to 0.115	89.0	70.0 to 130	0.337	20.0
BC05077	Boron, Dissolved	mg/L	-0.000193	0.0650	1.00	1.14	1.13	1.02	0.850 to 1.15	103	70.0 to 130	0.881	20.0
BC05076	Boron, Total	mg/L	0.000004	0.0650	1.00	0.976	0.962	0.978	0.850 to 1.15	97.6	70.0 to 130	1.44	20.0
BC05077	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0987	0.0909	0.0989	0.0850 to 0.115	98.7	70.0 to 130	8.23	20.0
BC05076	Cadmium, Total	mg/L	0.0000059	0.000147	0.100	0.0970	0.0958	0.100	0.0850 to 0.115	97.0	70.0 to 130	1.24	20.0
BC05077	Calcium, Dissolved	mg/L	-0.0163	0.152	5.00	17.8	17.5	4.87	4.25 to 5.75	96.0	70.0 to 130	1.70	20.0
BC05076	Calcium, Total	mg/L	-0.00894	0.152	5.00	4.78	4.62	4.88	4.25 to 5.75	95.6	70.0 to 130	3.40	20.0
BC05076	Chloride	mg/L	-0.00495	1.00	10.0	10.1	9.84	10.1	9.00 to 11.0	101	80.0 to 120	2.61	20.0
BC05077	Chromium, Dissolved	mg/L	-0.000106	0.000440	0.100	0.0983	0.0951	0.102	0.0850 to 0.115	98.3	70.0 to 130	3.31	20.0
BC05076	Chromium, Total	mg/L	0.0000215	0.000440	0.100	0.0964	0.0976	0.100	0.0850 to 0.115	96.2	70.0 to 130	1.24	20.0
BC05077	Cobalt, Dissolved	mg/L	-0.0000005	0.000147	0.100	0.101	0.0979	0.104	0.0850 to 0.115	101	70.0 to 130	3.12	20.0
BC05076	Cobalt, Total	mg/L	0.0000085	0.000147	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC05076	Fluoride	mg/L	-0.0313	0.125	2.50	2.55	2.48	2.50	2.25 to 2.75	102	80.0 to 120	2.78	20.0
BC05077	Iron, Dissolved	mg/L	-0.000384	0.0176	0.2	0.248	0.241	0.199	0.170 to 0.230	100	70.0 to 130	2.86	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/9/22 15:10  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-13SR

**Laboratory ID Number:** BC05074

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05076	Iron, Total	mg/L	-0.000562	0.0176	0.2	0.197	0.196	0.199	0.170 to 0.230	98.5	70.0 to 130	0.509	20.0
BC05077	Lead, Dissolved	mg/L	0.0000104	0.000147	0.100	0.109	0.0948	0.101	0.0850 to 0.115	109	70.0 to 130	13.9	20.0
BC05076	Lead, Total	mg/L	0.0000118	0.000147	0.100	0.0973	0.0992	0.0985	0.0850 to 0.115	97.3	70.0 to 130	1.93	20.0
BC05077	Lithium, Dissolved	mg/L	-0.000318	0.0154	0.200	0.327	0.323	0.200	0.170 to 0.230	100	70.0 to 130	1.23	20.0
BC05076	Lithium, Total	mg/L	-0.000138	0.0154	0.200	0.204	0.206	0.201	0.170 to 0.230	102	70.0 to 130	0.976	20.0
BC05077	Magnesium, Dissolved	mg/L	-0.00178	0.0462	5.00	9.03	8.76	5.10	4.25 to 5.75	98.8	70.0 to 130	3.04	20.0
BC05076	Magnesium, Total	mg/L	0.00188	0.0462	5.00	5.20	5.18	5.16	4.25 to 5.75	104	70.0 to 130	0.385	20.0
BC05077	Manganese, Dissolved	mg/L	0.0000035	0.0002	0.100	0.118	0.113	0.104	0.0850 to 0.115	100	70.0 to 130	4.33	20.0
BC05076	Manganese, Total	mg/L	-0.0000019	0.0002	0.100	0.0991	0.0987	0.101	0.0850 to 0.115	99.1	70.0 to 130	0.404	20.0
BC05076	Mercury, Total by CVAA	mg/L	-4.000E-05	0.000500	0.004	0.00398	0.00398	0.00397	0.00340 to 0.00460	99.5	70.0 to 130	0.00	20.0
BC05077	Molybdenum, Dissolved	mg/L	0.0000115	0.0002	0.100	0.101	0.0943	0.0998	0.0850 to 0.115	98.9	70.0 to 130	6.86	20.0
BC05076	Molybdenum, Total	mg/L	0.0000253	0.0002	0.100	0.0951	0.0938	0.0993	0.0850 to 0.115	95.1	70.0 to 130	1.38	20.0
BC05077	Potassium, Dissolved	mg/L	0.0220	0.367	10.0	18.3	17.9	10.7	8.50 to 11.5	107	70.0 to 130	2.21	20.0
BC05076	Potassium, Total	mg/L	0.0236	0.367	10.0	9.72	9.67	9.94	8.50 to 11.5	97.2	70.0 to 130	0.516	20.0
BC05077	Selenium, Dissolved	mg/L	0.0000682	0.00100	0.100	0.0362	0.0417	0.102	0.0850 to 0.115	34.9	70.0 to 130	14.1	20.0
BC05076	Selenium, Total	mg/L	-0.000353	0.00100	0.100	0.0979	0.0971	0.103	0.0850 to 0.115	97.9	70.0 to 130	0.821	20.0
BC05077	Silicon, Dissolved	mg/L	-0.000427	0.0440	1.00	8.10	8.10	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC05076	Silicon, Total	mg/L	0.00024	0.0440	1.00	0.996	0.996	1.01	0.850 to 1.15	99.6	70.0 to 130	0.00	20.0
BC05077	Sodium, Dissolved	mg/L	0.000048	0.0660	5.00	341	375	5.02	4.25 to 5.75	40.0	70.0 to 130	9.50	20.0
BC05076	Sodium, Total	mg/L	0.000363	0.0660	5.00	5.12	5.15	5.04	4.25 to 5.75	100	70.0 to 130	0.584	20.0
BC05076	Sulfate	mg/L	0.243	2.0	20.0	20.5	19.8	19.8	18.0 to 22.0	102	80.0 to 120	3.47	20.0
BC05077	Thallium, Dissolved	mg/L	0.0000019	0.000147	0.100	0.107	0.0955	0.100	0.0850 to 0.115	107	70.0 to 130	11.4	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/9/22 15:10  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-13SR

**Laboratory ID Number:** BC05074

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Limit	Prec	Prec Limit	
BC05076	Thallium, Total	mg/L	0.0000115	0.000147	0.100	0.0966	0.0983	0.0978	0.0850 to 0.115	96.6	70.0 to 130	1.74	20.0
BC05076	Total Organic Carbon	mg/L	0.320	1.00	10.0	9.24	9.66	9.73		92.4	80.0 to 120	4.44	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

## Batch QC Summary

**Customer Account:** WMWMILAP

**Sample Date:** 3/9/22 15:10

**Customer ID:**

**Delivery Date:** 3/10/22 11:10

**Description:** Miller Ash Pond - MW-13SR

**Laboratory ID Number:** BC05074

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05077	Alkalinity, Total as CaCO3	mg/L					499	50.9	45.0 to 55.0			7.27	10.0
BC05076	Nitrogen, Nitrate/Nitrite	mg/L as N	0.06	0.200	2.00	1.97	0.055	1.90	1.80 to 2.20	98.5	90.0 to 110	0.00	15.0
BC05460	Solids, Dissolved	mg/L	0.0000	25.0			1200	51.0	40.0 to 60.0			0.837	10.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-19HA

**Location Code:** WMWMILAP  
**Collected:** 3/9/22 11:43  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:11

**Laboratory ID Number:** BC05075

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	3/17/22 10:40	3/22/22 10:51		1.015	0.158	mg/L	0.030000	0.1015	
* Calcium, Total	3/17/22 10:40	3/22/22 10:51		1.015	8.95	mg/L	0.070035	0.406	
* Iron, Total	3/17/22 10:40	3/22/22 10:51		1.015	0.0110	mg/L	0.008120	0.0406	J
* Lithium, Total	3/17/22 10:40	3/22/22 10:51		1.015	0.124	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/17/22 10:40	3/22/22 10:51		1.015	2.98	mg/L	0.021315	0.406	
Silica, Total (calc.)	3/17/22 10:40	3/22/22 10:51		1	12.6	mg/L			
Silicon, Total	3/17/22 10:40	3/22/22 10:51		1.015	5.89	mg/L	0.2030	0.25375	
* Sodium, Total	3/17/22 10:40	3/22/22 12:24		101.5	451	mg/L	3.045	40.6	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	3/17/22 14:16	3/23/22 10:29		1.015	0.163	mg/L	0.030000	0.1015	
* Calcium, Dissolved	3/17/22 14:16	3/23/22 10:29		1.015	8.95	mg/L	0.070035	0.406	
* Iron, Dissolved	3/17/22 14:16	3/23/22 10:29		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	3/17/22 14:16	3/23/22 10:29		1.015	0.126	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	3/17/22 14:16	3/23/22 10:29		1.015	2.93	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	3/17/22 14:16	3/23/22 10:29		1	12.7	mg/L			
Silicon, Dissolved	3/17/22 14:16	3/23/22 10:29		1.015	5.95	mg/L	0.02030	0.25375	
* Sodium, Dissolved	3/17/22 14:16	3/23/22 12:05		101.5	455	mg/L	3.045	40.6	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	3/11/22 11:09	3/11/22 20:10		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/11/22 11:09	3/11/22 20:10		1.015	0.0300	mg/L	0.006090	0.01015	
* Arsenic, Total	3/11/22 11:09	3/11/22 20:10		1.015	0.000610	mg/L	0.000081	0.000203	
* Barium, Total	3/11/22 11:09	3/11/22 20:10		1.015	0.0604	mg/L	0.000102	0.000203	
* Beryllium, Total	3/11/22 11:09	3/11/22 20:10		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/11/22 11:09	3/11/22 20:10		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/11/22 11:09	3/11/22 20:10		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	3/11/22 11:09	3/11/22 20:10		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	3/11/22 11:09	3/11/22 20:10		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/11/22 11:09	3/11/22 20:10		1.015	0.0154	mg/L	0.000152	0.000203	
* Molybdenum, Total	3/11/22 11:09	3/11/22 20:10		1.015	0.00363	mg/L	0.000102	0.000203	
* Potassium, Total	3/11/22 11:09	3/11/22 20:10		1.015	3.39	mg/L	0.169505	0.5075	

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-19HA

**Location Code:** WMWMILAP  
**Collected:** 3/9/22 11:43  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:11

**Laboratory ID Number:** BC05075

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/11/22 11:09	3/11/22 20:10		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/11/22 11:09	3/11/22 20:10		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	3/11/22 13:40	3/11/22 16:28		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/11/22 13:40	3/11/22 16:28		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/11/22 13:40	3/11/22 16:28		1.015	0.000396	mg/L	0.000081	0.000203	
* Barium, Dissolved	3/11/22 13:40	3/11/22 16:28		1.015	0.0636	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/11/22 13:40	3/11/22 16:28		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/11/22 13:40	3/11/22 16:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/11/22 13:40	3/11/22 16:28		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	3/11/22 13:40	3/11/22 16:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	3/11/22 13:40	3/11/22 16:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/11/22 13:40	3/11/22 16:28		1.015	0.0149	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/11/22 13:40	3/11/22 16:28		1.015	0.000560	mg/L	0.000102	0.000203	
* Potassium, Dissolved	3/11/22 13:40	3/11/22 16:28		1.015	3.65	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/11/22 13:40	3/15/22 17:28		1.015	0.00251	mg/L	0.000508	0.001015	
* Thallium, Dissolved	3/11/22 13:40	3/11/22 16:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	3/10/22 17:58	3/11/22 00:13		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	3/17/22 13:20	3/17/22 13:20		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity, Total as CaCO3	3/14/22 10:15	3/14/22 15:35		1	700	mg/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	3/11/22 10:40	3/14/22 13:47		1	1020	mg/L		100	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
Bicarbonate Alkalinity, (calc.)	3/14/22 10:15	3/14/22 15:35		1	689	mg/L			A
Carbonate Alkalinity, (calc.)	3/14/22 10:15	3/14/22 15:35		1	10.8	mg/L			A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/15/22 22:32	3/15/22 22:32		1	11.6	mg/L	1.00	2	

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-19HA

**Location Code:** WMWMILAP  
**Collected:** 3/9/22 11:43  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:11

**Laboratory ID Number:** BC05075

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/11/22 13:50	3/11/22 13:50		10	165	mg/L	5.0	10	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 09:37	3/22/22 09:37		1	2.40	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/23/22 15:49	3/23/22 15:49		5	110	mg/L	3.0	10	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: AWG</b>							
Conductivity	3/9/22 11:40	3/9/22 11:40			1558.26	uS/cm			FA
pH	3/9/22 11:40	3/9/22 11:40			8.07	SU			FA
Temperature	3/9/22 11:40	3/9/22 11:40			16.98	C			FA
Turbidity	3/9/22 11:40	3/9/22 11:40			1.53	NTU			FA

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/9/22 11:43  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:11

**Description:** Miller Ash Pond - MW-19HA

**Laboratory ID Number:** BC05075

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC05077	Aluminum, Dissolved	mg/L	-0.000823	0.010	0.100	0.110	0.105	0.109	0.0850 to 0.115	110	70.0 to 130	4.65	20.0
BC05076	Aluminum, Total	mg/L	-0.000102	0.010	0.100	0.0979	0.0969	0.102	0.0850 to 0.115	97.9	70.0 to 130	1.03	20.0
BC05077	Antimony, Dissolved	mg/L	0.000222	0.00100	0.100	0.0917	0.0891	0.0932	0.0850 to 0.115	91.7	70.0 to 130	2.88	20.0
BC05076	Antimony, Total	mg/L	0.000398	0.00100	0.100	0.0894	0.0902	0.0938	0.0850 to 0.115	89.4	70.0 to 130	0.891	20.0
BC05077	Arsenic, Dissolved	mg/L	0.0000046	0.000176	0.100	0.0973	0.0952	0.101	0.0850 to 0.115	96.8	70.0 to 130	2.18	20.0
BC05076	Arsenic, Total	mg/L	-0.0000174	0.000176	0.100	0.0988	0.0975	0.102	0.0850 to 0.115	98.8	70.0 to 130	1.32	20.0
BC05077	Barium, Dissolved	mg/L	0.0000160	0.000200	0.100	0.166	0.162	0.100	0.0850 to 0.115	101	70.0 to 130	2.44	20.0
BC05076	Barium, Total	mg/L	-0.0000079	0.000200	0.100	0.0948	0.0964	0.0979	0.0850 to 0.115	94.8	70.0 to 130	1.67	20.0
BC05077	Beryllium, Dissolved	mg/L	0.0000178	0.000880	0.100	0.116	0.104	0.109	0.0850 to 0.115	116	70.0 to 130	10.9	20.0
BC05076	Beryllium, Total	mg/L	0.0000199	0.000880	0.100	0.0890	0.0893	0.0937	0.0850 to 0.115	89.0	70.0 to 130	0.337	20.0
BC05077	Boron, Dissolved	mg/L	-0.000193	0.0650	1.00	1.14	1.13	1.02	0.850 to 1.15	103	70.0 to 130	0.881	20.0
BC05076	Boron, Total	mg/L	0.000004	0.0650	1.00	0.976	0.962	0.978	0.850 to 1.15	97.6	70.0 to 130	1.44	20.0
BC05077	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0987	0.0909	0.0989	0.0850 to 0.115	98.7	70.0 to 130	8.23	20.0
BC05076	Cadmium, Total	mg/L	0.0000059	0.000147	0.100	0.0970	0.0958	0.100	0.0850 to 0.115	97.0	70.0 to 130	1.24	20.0
BC05077	Calcium, Dissolved	mg/L	-0.0163	0.152	5.00	17.8	17.5	4.87	4.25 to 5.75	96.0	70.0 to 130	1.70	20.0
BC05076	Calcium, Total	mg/L	-0.00894	0.152	5.00	4.78	4.62	4.88	4.25 to 5.75	95.6	70.0 to 130	3.40	20.0
BC05076	Chloride	mg/L	-0.00495	1.00	10.0	10.1	9.84	10.1	9.00 to 11.0	101	80.0 to 120	2.61	20.0
BC05077	Chromium, Dissolved	mg/L	-0.000106	0.000440	0.100	0.0983	0.0951	0.102	0.0850 to 0.115	98.3	70.0 to 130	3.31	20.0
BC05076	Chromium, Total	mg/L	0.0000215	0.000440	0.100	0.0964	0.0976	0.100	0.0850 to 0.115	96.2	70.0 to 130	1.24	20.0
BC05077	Cobalt, Dissolved	mg/L	-0.0000005	0.000147	0.100	0.101	0.0979	0.104	0.0850 to 0.115	101	70.0 to 130	3.12	20.0
BC05076	Cobalt, Total	mg/L	0.0000085	0.000147	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC05076	Fluoride	mg/L	-0.0313	0.125	2.50	2.55	2.48	2.50	2.25 to 2.75	102	80.0 to 120	2.78	20.0
BC05077	Iron, Dissolved	mg/L	-0.000384	0.0176	0.2	0.248	0.241	0.199	0.170 to 0.230	100	70.0 to 130	2.86	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.



# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/9/22 11:43  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:11

**Description:** Miller Ash Pond - MW-19HA

**Laboratory ID Number:** BC05075

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05076	Iron, Total	mg/L	-0.000562	0.0176	0.2	0.197	0.196	0.199	0.170 to 0.230	98.5	70.0 to 130	0.509	20.0
BC05077	Lead, Dissolved	mg/L	0.0000104	0.000147	0.100	0.109	0.0948	0.101	0.0850 to 0.115	109	70.0 to 130	13.9	20.0
BC05076	Lead, Total	mg/L	0.0000118	0.000147	0.100	0.0973	0.0992	0.0985	0.0850 to 0.115	97.3	70.0 to 130	1.93	20.0
BC05077	Lithium, Dissolved	mg/L	-0.000318	0.0154	0.200	0.327	0.323	0.200	0.170 to 0.230	100	70.0 to 130	1.23	20.0
BC05076	Lithium, Total	mg/L	-0.000138	0.0154	0.200	0.204	0.206	0.201	0.170 to 0.230	102	70.0 to 130	0.976	20.0
BC05077	Magnesium, Dissolved	mg/L	-0.00178	0.0462	5.00	9.03	8.76	5.10	4.25 to 5.75	98.8	70.0 to 130	3.04	20.0
BC05076	Magnesium, Total	mg/L	0.00188	0.0462	5.00	5.20	5.18	5.16	4.25 to 5.75	104	70.0 to 130	0.385	20.0
BC05077	Manganese, Dissolved	mg/L	0.0000035	0.0002	0.100	0.118	0.113	0.104	0.0850 to 0.115	100	70.0 to 130	4.33	20.0
BC05076	Manganese, Total	mg/L	-0.0000019	0.0002	0.100	0.0991	0.0987	0.101	0.0850 to 0.115	99.1	70.0 to 130	0.404	20.0
BC05076	Mercury, Total by CVAA	mg/L	-4.000E-05	0.000500	0.004	0.00398	0.00398	0.00397	0.00340 to 0.00460	99.5	70.0 to 130	0.00	20.0
BC05077	Molybdenum, Dissolved	mg/L	0.0000115	0.0002	0.100	0.101	0.0943	0.0998	0.0850 to 0.115	98.9	70.0 to 130	6.86	20.0
BC05076	Molybdenum, Total	mg/L	0.0000253	0.0002	0.100	0.0951	0.0938	0.0993	0.0850 to 0.115	95.1	70.0 to 130	1.38	20.0
BC05077	Potassium, Dissolved	mg/L	0.0220	0.367	10.0	18.3	17.9	10.7	8.50 to 11.5	107	70.0 to 130	2.21	20.0
BC05076	Potassium, Total	mg/L	0.0236	0.367	10.0	9.72	9.67	9.94	8.50 to 11.5	97.2	70.0 to 130	0.516	20.0
BC05077	Selenium, Dissolved	mg/L	0.0000682	0.00100	0.100	0.0362	0.0417	0.102	0.0850 to 0.115	34.9	70.0 to 130	14.1	20.0
BC05076	Selenium, Total	mg/L	-0.000353	0.00100	0.100	0.0979	0.0971	0.103	0.0850 to 0.115	97.9	70.0 to 130	0.821	20.0
BC05077	Silicon, Dissolved	mg/L	-0.000427	0.0440	1.00	8.10	8.10	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC05076	Silicon, Total	mg/L	0.00024	0.0440	1.00	0.996	0.996	1.01	0.850 to 1.15	99.6	70.0 to 130	0.00	20.0
BC05077	Sodium, Dissolved	mg/L	0.000048	0.0660	5.00	341	375	5.02	4.25 to 5.75	40.0	70.0 to 130	9.50	20.0
BC05076	Sodium, Total	mg/L	0.000363	0.0660	5.00	5.12	5.15	5.04	4.25 to 5.75	100	70.0 to 130	0.584	20.0
BC05076	Sulfate	mg/L	0.243	2.0	20.0	20.5	19.8	19.8	18.0 to 22.0	102	80.0 to 120	3.47	20.0
BC05077	Thallium, Dissolved	mg/L	0.0000019	0.000147	0.100	0.107	0.0955	0.100	0.0850 to 0.115	107	70.0 to 130	11.4	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/9/22 11:43  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:11

**Description:** Miller Ash Pond - MW-19HA

**Laboratory ID Number:** BC05075

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05076	Thallium, Total	mg/L	0.0000115	0.000147	0.100	0.0966	0.0983	0.0978	0.0850 to 0.115	96.6	70.0 to 130	1.74	20.0
BC05076	Total Organic Carbon	mg/L	0.320	1.00	10.0	9.24	9.66	9.73		92.4	80.0 to 120	4.44	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

## Batch QC Summary

**Customer Account:** WMWMILAP

**Sample Date:** 3/9/22 11:43

**Customer ID:**

**Delivery Date:** 3/10/22 11:11

**Description:** Miller Ash Pond - MW-19HA

**Laboratory ID Number:** BC05075

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05077	Alkalinity, Total as CaCO3	mg/L					499	50.9	45.0 to 55.0			7.27	10.0
BC05076	Nitrogen, Nitrate/Nitrite	mg/L as N	0.06	0.200	2.00	1.97	0.055	1.90	1.80 to 2.20	98.5	90.0 to 110	0.00	15.0
BC05072	Solids, Dissolved	mg/L	0.0000	25.0			218	50.0	40.0 to 60.0			0.460	10.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond Field Blank-3

**Location Code:** WMWMILAPFB

**Collected:** 3/9/22 12:20

**Customer ID:**

**Submittal Date:** 3/10/22 11:11

**Laboratory ID Number:** BC05076

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	3/17/22 10:40	3/22/22 10:52		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	3/17/22 10:40	3/22/22 11:41		1.015	Not Detected	mg/L	0.070035	0.406	U	
* Iron, Total	3/17/22 10:40	3/22/22 10:52		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	3/17/22 10:40	3/22/22 11:41		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	3/17/22 10:40	3/22/22 11:41		1.015	Not Detected	mg/L	0.021315	0.406	U	
Silica, Total (calc.)	3/17/22 10:40	3/22/22 10:52		1	Not Detected	mg/L				
Silicon, Total	3/17/22 10:40	3/22/22 10:52		1.015	Not Detected	mg/L	0.02030	0.25375	U	
* Sodium, Total	3/17/22 10:40	3/22/22 11:41		1.015	0.114	mg/L	0.03045	0.406	J	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	3/11/22 11:09	3/11/22 20:13		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	3/11/22 11:09	3/11/22 20:13		1.015	Not Detected	mg/L	0.006090	0.01015	U	
* Arsenic, Total	3/11/22 11:09	3/11/22 20:13		1.015	Not Detected	mg/L	0.000081	0.000203	U	
* Barium, Total	3/11/22 11:09	3/11/22 20:13		1.015	Not Detected	mg/L	0.000102	0.000203	U	
* Beryllium, Total	3/11/22 11:09	3/11/22 20:13		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	3/11/22 11:09	3/11/22 20:13		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	3/11/22 11:09	3/11/22 20:13		1.015	0.000217	mg/L	0.000203	0.001015	J	
* Cobalt, Total	3/11/22 11:09	3/11/22 20:13		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	3/11/22 11:09	3/11/22 20:13		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	3/11/22 11:09	3/11/22 20:13		1.015	Not Detected	mg/L	0.000152	0.000203	U	
* Molybdenum, Total	3/11/22 11:09	3/11/22 20:13		1.015	Not Detected	mg/L	0.000102	0.000203	U	
* Potassium, Total	3/11/22 11:09	3/11/22 20:13		1.015	Not Detected	mg/L	0.169505	0.5075	U	
* Selenium, Total	3/11/22 11:09	3/11/22 20:13		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	3/11/22 11:09	3/11/22 20:13		1.015	Not Detected	mg/L	0.000068	0.000203	U	
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>								
* Mercury, Total by CVAA	3/18/22 17:13	3/19/22 00:27		1	Not Detected	mg/L	0.0003	0.0005	U	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>								
* Nitrogen, Nitrate/Nitrite	3/17/22 13:22	3/17/22 13:22		1	Not Detected	mg/L as N	0.20	0.3	U	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>								
* Solids, Dissolved	3/11/22 10:40	3/14/22 13:47		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:** 3/9/22 12:20

**Customer ID:**

**Submittal Date:** 3/10/22 11:11

**Laboratory ID Number:** BC05076

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/15/22 22:50	3/15/22 22:50		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/11/22 13:45	3/11/22 13:45		1	Not Detected	mg/L	0.50	1	U
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 09:39	3/22/22 09:39		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/23/22 15:51	3/23/22 15:51		1	Not Detected	mg/L	0.6	2	U

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

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**Comments:**

# Batch QC Summary

**Customer Account:** WMWMILAPFB

**Sample Date:** 3/9/22 12:20

**Customer ID:**

**Delivery Date:** 3/10/22 11:11

**Description:** Miller Ash Pond Field Blank-3

**Laboratory ID Number:** BC05076

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BC05076	Aluminum, Total	mg/L	-0.000102	0.010	0.100	0.0979	0.0969	0.102	0.0850 to 0.115	97.9	70.0 to 130	1.03	20.0
BC05076	Antimony, Total	mg/L	0.000398	0.00100	0.100	0.0894	0.0902	0.0938	0.0850 to 0.115	89.4	70.0 to 130	0.891	20.0
BC05076	Arsenic, Total	mg/L	-0.0000174	0.000176	0.100	0.0988	0.0975	0.102	0.0850 to 0.115	98.8	70.0 to 130	1.32	20.0
BC05076	Barium, Total	mg/L	-0.0000079	0.000200	0.100	0.0948	0.0964	0.0979	0.0850 to 0.115	94.8	70.0 to 130	1.67	20.0
BC05076	Beryllium, Total	mg/L	0.0000199	0.000880	0.100	0.0890	0.0893	0.0937	0.0850 to 0.115	89.0	70.0 to 130	0.337	20.0
BC05076	Boron, Total	mg/L	0.000004	0.0650	1.00	0.976	0.962	0.978	0.850 to 1.15	97.6	70.0 to 130	1.44	20.0
BC05076	Cadmium, Total	mg/L	0.0000059	0.000147	0.100	0.0970	0.0958	0.100	0.0850 to 0.115	97.0	70.0 to 130	1.24	20.0
BC05076	Calcium, Total	mg/L	-0.00894	0.152	5.00	4.78	4.62	4.88	4.25 to 5.75	95.6	70.0 to 130	3.40	20.0
BC05076	Chloride	mg/L	-0.00495	1.00	10.0	10.1	9.84	10.1	9.00 to 11.0	101	80.0 to 120	2.61	20.0
BC05076	Chromium, Total	mg/L	0.0000215	0.000440	0.100	0.0964	0.0976	0.100	0.0850 to 0.115	96.2	70.0 to 130	1.24	20.0
BC05076	Cobalt, Total	mg/L	0.0000085	0.000147	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC05076	Fluoride	mg/L	-0.0313	0.125	2.50	2.55	2.48	2.50	2.25 to 2.75	102	80.0 to 120	2.78	20.0
BC05076	Iron, Total	mg/L	-0.000562	0.0176	0.2	0.197	0.196	0.199	0.170 to 0.230	98.5	70.0 to 130	0.509	20.0
BC05076	Lead, Total	mg/L	0.0000118	0.000147	0.100	0.0973	0.0992	0.0985	0.0850 to 0.115	97.3	70.0 to 130	1.93	20.0
BC05076	Lithium, Total	mg/L	-0.000138	0.0154	0.200	0.204	0.206	0.201	0.170 to 0.230	102	70.0 to 130	0.976	20.0
BC05076	Magnesium, Total	mg/L	0.00188	0.0462	5.00	5.20	5.18	5.16	4.25 to 5.75	104	70.0 to 130	0.385	20.0
BC05076	Manganese, Total	mg/L	-0.0000019	0.0002	0.100	0.0991	0.0987	0.101	0.0850 to 0.115	99.1	70.0 to 130	0.404	20.0
BC05076	Mercury, Total by CVAA	mg/L	-4.000E-05	0.000500	0.004	0.00398	0.00398	0.00397	0.00340 to 0.00460	99.5	70.0 to 130	0.00	20.0
BC05076	Molybdenum, Total	mg/L	0.0000253	0.0002	0.100	0.0951	0.0938	0.0993	0.0850 to 0.115	95.1	70.0 to 130	1.38	20.0
BC05076	Potassium, Total	mg/L	0.0236	0.367	10.0	9.72	9.67	9.94	8.50 to 11.5	97.2	70.0 to 130	0.516	20.0
BC05076	Selenium, Total	mg/L	-0.000353	0.00100	0.100	0.0979	0.0971	0.103	0.0850 to 0.115	97.9	70.0 to 130	0.821	20.0
BC05076	Silicon, Total	mg/L	0.00024	0.0440	1.00	0.996	0.996	1.01	0.850 to 1.15	99.6	70.0 to 130	0.00	20.0
BC05076	Sodium, Total	mg/L	0.000363	0.0660	5.00	5.12	5.15	5.04	4.25 to 5.75	100	70.0 to 130	0.584	20.0

**Comments:**

# Batch QC Summary

**Customer Account:** WMWMILAPFB

**Sample Date:** 3/9/22 12:20

**Customer ID:**

**Delivery Date:** 3/10/22 11:11

**Description:** Miller Ash Pond Field Blank-3

**Laboratory ID Number:** BC05076

Sample	Analysis	Units	MB	MB				MSD	Standard	Standard Limit	Rec		Prec Limit
				Limit	Spike	MS	Standard				Rec	Limit	
BC05076	Sulfate	mg/L	0.243	2.0	20.0	20.5	19.8	19.8	18.0 to 22.0	102	80.0 to 120	3.47	20.0
BC05076	Thallium, Total	mg/L	0.0000115	0.000147	0.100	0.0966	0.0983	0.0978	0.0850 to 0.115	96.6	70.0 to 130	1.74	20.0
BC05076	Total Organic Carbon	mg/L	0.320	1.00	10.0	9.24	9.66	9.73		92.4	80.0 to 120	4.44	20.0

**Comments:**

## Batch QC Summary

**Customer Account:** WMWMILAPFB

**Sample Date:** 3/9/22 12:20

**Customer ID:**

**Delivery Date:** 3/10/22 11:11

**Description:** Miller Ash Pond Field Blank-3

**Laboratory ID Number:** BC05076

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05076	Nitrogen, Nitrate/Nitrite	mg/L as N	0.06	0.200	2.00	1.97	0.055	1.90	1.80 to 2.20	98.5	90.0 to 110	0.00	15.0
BC05072	Solids, Dissolved	mg/L	0.0000	25.0			218	50.0	40.0 to 60.0			0.460	10.0

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**Comments:**



# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-34H

**Location Code:** WMWMILAP  
**Collected:** 3/9/22 14:15  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:11

**Laboratory ID Number:** BC05077

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	3/17/22 10:40	3/22/22 11:05		1.015	0.107	mg/L	0.030000	0.1015	
* Calcium, Total	3/17/22 10:40	3/22/22 11:05		1.015	12.9	mg/L	0.070035	0.406	
* Iron, Total	3/17/22 10:40	3/22/22 11:05		1.015	0.0485	mg/L	0.008120	0.0406	
* Lithium, Total	3/17/22 10:40	3/22/22 11:05		1.015	0.130	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/17/22 10:40	3/22/22 11:05		1.015	4.19	mg/L	0.021315	0.406	
Silica, Total (calc.)	3/17/22 10:40	3/22/22 11:05		1	15.1	mg/L			
Silicon, Total	3/17/22 10:40	3/22/22 11:05		1.015	7.07	mg/L	0.02030	0.25375	
* Sodium, Total	3/17/22 10:40	3/22/22 12:30		10.15	361	mg/L	0.3045	4.06	RA
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	3/17/22 14:16	3/23/22 10:31		1.015	0.106	mg/L	0.030000	0.1015	
* Calcium, Dissolved	3/17/22 14:16	3/23/22 10:31		1.015	13.0	mg/L	0.070035	0.406	
* Iron, Dissolved	3/17/22 14:16	3/23/22 10:31		1.015	0.0472	mg/L	0.008120	0.0406	
* Lithium, Dissolved	3/17/22 14:16	3/23/22 10:31		1.015	0.127	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	3/17/22 14:16	3/23/22 10:31		1.015	4.09	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	3/17/22 14:16	3/23/22 10:31		1	15.2	mg/L			
Silicon, Dissolved	3/17/22 14:16	3/23/22 10:31		1.015	7.09	mg/L	0.02030	0.25375	
* Sodium, Dissolved	3/17/22 14:16	3/23/22 12:07		10.15	339	mg/L	0.3045	4.06	RA
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	3/11/22 11:09	3/11/22 20:42		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/11/22 11:09	3/11/22 20:42		1.015	0.00640	mg/L	0.006090	0.01015	J
* Arsenic, Total	3/11/22 11:09	3/11/22 20:42		1.015	0.000674	mg/L	0.000081	0.000203	
* Barium, Total	3/11/22 11:09	3/11/22 20:42		1.015	0.0615	mg/L	0.000102	0.000203	
* Beryllium, Total	3/11/22 11:09	3/11/22 20:42		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/11/22 11:09	3/11/22 20:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/11/22 11:09	3/11/22 20:42		1.015	0.000208	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/11/22 11:09	3/11/22 20:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	3/11/22 11:09	3/11/22 20:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/11/22 11:09	3/11/22 20:42		1.015	0.0179	mg/L	0.000152	0.000203	
* Molybdenum, Total	3/11/22 11:09	3/11/22 20:42		1.015	0.00765	mg/L	0.000102	0.000203	
* Potassium, Total	3/11/22 11:09	3/11/22 20:42		1.015	7.18	mg/L	0.169505	0.5075	

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Selenium MS & MSD recovery was outside of the specification limit.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-34H

**Location Code:** WMWMILAP  
**Collected:** 3/9/22 14:15  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:11

**Laboratory ID Number:** BC05077

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/11/22 11:09	3/11/22 20:42		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/11/22 11:09	3/11/22 20:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	3/11/22 13:40	3/11/22 16:31		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/11/22 13:40	3/11/22 16:31		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/11/22 13:40	3/11/22 16:31		1.015	0.000516	mg/L	0.000081	0.000203	
* Barium, Dissolved	3/11/22 13:40	3/11/22 16:31		1.015	0.0647	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/11/22 13:40	3/11/22 16:31		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/11/22 13:40	3/11/22 16:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/11/22 13:40	3/11/22 16:31		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	3/11/22 13:40	3/11/22 16:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	3/11/22 13:40	3/11/22 16:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/11/22 13:40	3/11/22 16:31		1.015	0.0177	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/11/22 13:40	3/11/22 16:31		1.015	0.00206	mg/L	0.000102	0.000203	
* Potassium, Dissolved	3/11/22 13:40	3/11/22 16:31		1.015	7.64	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/11/22 13:40	3/15/22 17:31		1.015	0.00131	mg/L	0.000508	0.001015	R
* Thallium, Dissolved	3/11/22 13:40	3/11/22 16:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	3/18/22 17:13	3/18/22 21:10		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	3/17/22 13:31	3/17/22 13:31		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity, Total as CaCO3	3/14/22 10:15	3/14/22 15:35		1	464	mg/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	3/16/22 11:00	3/17/22 13:20		1	909	mg/L		75.8	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
Bicarbonate Alkalinity, (calc.)	3/14/22 10:15	3/14/22 15:35		1	456	mg/L			A
Carbonate Alkalinity, (calc.)	3/14/22 10:15	3/14/22 15:35		1	7.63	mg/L			A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/16/22 00:10	3/16/22 00:10		1	11.9	mg/L	1.00	2	

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Selenium MS & MSD recovery was outside of the specification limit.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-34H

**Location Code:** WMWMILAP  
**Collected:** 3/9/22 14:15  
**Customer ID:**  
**Submittal Date:** 3/10/22 11:11

**Laboratory ID Number:** BC05077

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/11/22 14:15	3/11/22 14:15		16	161	mg/L	8.00	16	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 09:51	3/22/22 09:51		1	0.302	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/24/22 09:50	3/24/22 09:50		10	185	mg/L	6.0	20	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: AWG</b>							
Conductivity	3/9/22 14:12	3/9/22 14:12			1427.00	uS/cm			FA
pH	3/9/22 14:12	3/9/22 14:12			8.09	SU			FA
Temperature	3/9/22 14:12	3/9/22 14:12			16.12	C			FA
Turbidity	3/9/22 14:12	3/9/22 14:12			3.13	NTU			FA

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Selenium MS & MSD recovery was outside of the specification limit.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/9/22 14:15  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:11

**Description:** Miller Ash Pond - MW-34H

**Laboratory ID Number:** BC05077

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BC05077	Aluminum, Dissolved	mg/L	-0.000823	0.010	0.100	0.110	0.105	0.109	0.0850 to 0.115	110	70.0 to 130	4.65	20.0	
BC05077	Aluminum, Total	mg/L	0.00152	0.010	0.100	0.0998	0.0978	0.100	0.0850 to 0.115	93.4	70.0 to 130	2.02	20.0	
BC05077	Antimony, Dissolved	mg/L	0.000222	0.00100	0.100	0.0917	0.0891	0.0932	0.0850 to 0.115	91.7	70.0 to 130	2.88	20.0	
BC05077	Antimony, Total	mg/L	0.000321	0.00100	0.100	0.0957	0.0970	0.0928	0.0850 to 0.115	95.7	70.0 to 130	1.35	20.0	
BC05077	Arsenic, Dissolved	mg/L	0.0000046	0.000176	0.100	0.0973	0.0952	0.101	0.0850 to 0.115	96.8	70.0 to 130	2.18	20.0	
BC05077	Arsenic, Total	mg/L	0.0000277	0.000176	0.100	0.0951	0.0982	0.0992	0.0850 to 0.115	94.4	70.0 to 130	3.21	20.0	
BC05077	Barium, Dissolved	mg/L	0.0000160	0.000200	0.100	0.166	0.162	0.100	0.0850 to 0.115	101	70.0 to 130	2.44	20.0	
BC05077	Barium, Total	mg/L	0.0000061	0.000200	0.100	0.155	0.156	0.0960	0.0850 to 0.115	93.5	70.0 to 130	0.643	20.0	
BC05077	Beryllium, Dissolved	mg/L	0.0000178	0.000880	0.100	0.116	0.104	0.109	0.0850 to 0.115	116	70.0 to 130	10.9	20.0	
BC05077	Beryllium, Total	mg/L	0.0000244	0.000880	0.100	0.0939	0.0930	0.0890	0.0850 to 0.115	93.9	70.0 to 130	0.963	20.0	
BC05077	Boron, Dissolved	mg/L	-0.000193	0.0650	1.00	1.14	1.13	1.02	0.850 to 1.15	103	70.0 to 130	0.881	20.0	
BC05077	Boron, Total	mg/L	0.000034	0.0650	1.00	1.09	1.11	0.978	0.850 to 1.15	98.3	70.0 to 130	1.82	20.0	
BC05077	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0987	0.0909	0.0989	0.0850 to 0.115	98.7	70.0 to 130	8.23	20.0	
BC05077	Cadmium, Total	mg/L	0.0000056	0.000147	0.100	0.0955	0.0927	0.0974	0.0850 to 0.115	95.5	70.0 to 130	2.98	20.0	
BC05077	Calcium, Dissolved	mg/L	-0.0163	0.152	5.00	17.8	17.5	4.87	4.25 to 5.75	96.0	70.0 to 130	1.70	20.0	
BC05077	Calcium, Total	mg/L	-0.0138	0.152	5.00	17.9	17.9	4.61	4.25 to 5.75	100	70.0 to 130	0.00	20.0	
BC05077	Chloride	mg/L	-0.0157	1.00	160	315	298	10.1	9.00 to 11.0	96.2	80.0 to 120	5.55	20.0	
BC05077	Chromium, Dissolved	mg/L	-0.000106	0.000440	0.100	0.0983	0.0951	0.102	0.0850 to 0.115	98.3	70.0 to 130	3.31	20.0	
BC05077	Chromium, Total	mg/L	0.0000388	0.000440	0.100	0.0926	0.0914	0.101	0.0850 to 0.115	92.4	70.0 to 130	1.30	20.0	
BC05077	Cobalt, Dissolved	mg/L	-0.0000005	0.000147	0.100	0.101	0.0979	0.104	0.0850 to 0.115	101	70.0 to 130	3.12	20.0	
BC05077	Cobalt, Total	mg/L	0.0000048	0.000147	0.100	0.0975	0.0957	0.106	0.0850 to 0.115	97.5	70.0 to 130	1.86	20.0	
BC05467	Fluoride	mg/L	-0.0324	0.125	2.50	2.66	2.67	2.56	2.25 to 2.75	102	80.0 to 120	0.375	20.0	
BC05077	Iron, Dissolved	mg/L	-0.000384	0.0176	0.2	0.248	0.241	0.199	0.170 to 0.230	100	70.0 to 130	2.86	20.0	

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Selenium MS & MSD recovery was outside of the specification limit.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/9/22 14:15  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:11

**Description:** Miller Ash Pond - MW-34H

**Laboratory ID Number:** BC05077

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05077	Iron, Total	mg/L	0.000222	0.0176	0.2	0.240	0.244	0.199	0.170 to 0.230	95.8	70.0 to 130	1.65	20.0
BC05077	Lead, Dissolved	mg/L	0.0000104	0.000147	0.100	0.109	0.0948	0.101	0.0850 to 0.115	109	70.0 to 130	13.9	20.0
BC05077	Lead, Total	mg/L	0.0000219	0.000147	0.100	0.0975	0.0972	0.0981	0.0850 to 0.115	97.5	70.0 to 130	0.308	20.0
BC05077	Lithium, Dissolved	mg/L	-0.000318	0.0154	0.200	0.327	0.323	0.200	0.170 to 0.230	100	70.0 to 130	1.23	20.0
BC05077	Lithium, Total	mg/L	-0.000184	0.0154	0.200	0.320	0.329	0.210	0.170 to 0.230	95.0	70.0 to 130	2.77	20.0
BC05077	Magnesium, Dissolved	mg/L	-0.00178	0.0462	5.00	9.03	8.76	5.10	4.25 to 5.75	98.8	70.0 to 130	3.04	20.0
BC05077	Magnesium, Total	mg/L	0.00456	0.0462	5.00	8.98	9.17	5.21	4.25 to 5.75	95.8	70.0 to 130	2.09	20.0
BC05077	Manganese, Dissolved	mg/L	0.0000035	0.0002	0.100	0.118	0.113	0.104	0.0850 to 0.115	100	70.0 to 130	4.33	20.0
BC05077	Manganese, Total	mg/L	0.0000562	0.0002	0.100	0.113	0.110	0.103	0.0850 to 0.115	95.1	70.0 to 130	2.69	20.0
BC05467	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00401	0.00399	0.00394	0.00340 to 0.00460	100	70.0 to 130	0.500	20.0
BC05077	Molybdenum, Dissolved	mg/L	0.0000115	0.0002	0.100	0.101	0.0943	0.0998	0.0850 to 0.115	98.9	70.0 to 130	6.86	20.0
BC05077	Molybdenum, Total	mg/L	0.0000388	0.0002	0.100	0.0996	0.101	0.0969	0.0850 to 0.115	92.0	70.0 to 130	1.40	20.0
BC05077	Potassium, Dissolved	mg/L	0.0220	0.367	10.0	18.3	17.9	10.7	8.50 to 11.5	107	70.0 to 130	2.21	20.0
BC05077	Potassium, Total	mg/L	0.0184	0.367	10.0	16.5	16.1	9.93	8.50 to 11.5	93.2	70.0 to 130	2.45	20.0
BC05077	Selenium, Dissolved	mg/L	0.0000682	0.00100	0.100	0.0362	0.0417	0.102	0.0850 to 0.115	34.9	70.0 to 130	14.1	20.0
BC05077	Selenium, Total	mg/L	-0.000475	0.00100	0.100	0.0518	0.0523	0.100	0.0850 to 0.115	51.8	70.0 to 130	0.961	20.0
BC05077	Silicon, Dissolved	mg/L	-0.000427	0.0440	1.00	8.10	8.10	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC05077	Silicon, Total	mg/L	-0.000225	0.0440	1.00	7.90	7.98	1.01	0.850 to 1.15	83.0	70.0 to 130	1.01	20.0
BC05077	Sodium, Dissolved	mg/L	0.000048	0.0660	5.00	341	375	5.02	4.25 to 5.75	40.0	70.0 to 130	9.50	20.0
BC05077	Sodium, Total	mg/L	0.0184	0.0660	5.00	354	356	5.19	4.25 to 5.75	-140	70.0 to 130	0.563	20.0
BC05467	Sulfate	mg/L	-0.0466	2.0	200	322	335	19.8	18.0 to 22.0	108	80.0 to 120	3.96	20.0
BC05077	Thallium, Dissolved	mg/L	0.0000019	0.000147	0.100	0.107	0.0955	0.100	0.0850 to 0.115	107	70.0 to 130	11.4	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Selenium MS & MSD recovery was outside of the specification limit.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/9/22 14:15  
**Customer ID:**  
**Delivery Date:** 3/10/22 11:11

**Description:** Miller Ash Pond - MW-34H

**Laboratory ID Number:** BC05077

Sample	Analysis	Units	MB	MB				Standard	Standard Limit	Rec		Prec	Prec Limit
				Limit	Spike	MS	MSD			Rec	Limit		
BC05077	Thallium, Total	mg/L	0.0000163	0.000147	0.100	0.0985	0.0963	0.0987	0.0850 to 0.115	98.5	70.0 to 130	2.26	20.0
BC05077	Total Organic Carbon	mg/L	0.320	1.00	10.0	22.1	21.7	10.0		102	80.0 to 120	1.83	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Selenium MS & MSD recovery was outside of the specification limit.

## Batch QC Summary

**Customer Account:** WMWMILAP

**Sample Date:** 3/9/22 14:15

**Customer ID:**

**Delivery Date:** 3/10/22 11:11

**Description:** Miller Ash Pond - MW-34H

**Laboratory ID Number:** BC05077

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05077	Alkalinity, Total as CaCO3	mg/L					499	50.9	45.0 to 55.0			7.27	10.0
BC05467	Nitrogen, Nitrate/Nitrite	mg/L as N	0.05	0.200	2.00	1.90	0.057	1.82	1.80 to 2.20	95.0	90.0 to 110	0.00	15.0
BC05460	Solids, Dissolved	mg/L	0.0000	25.0			1200	51.0	40.0 to 60.0			0.837	10.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Selenium MS & MSD recovery was outside of the specification limit.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-33H

**Location Code:** WMWMILAP  
**Collected:** 3/14/22 11:54  
**Customer ID:**  
**Submittal Date:** 3/15/22 15:31

**Laboratory ID Number:** BC05459

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	3/17/22 10:40	3/22/22 11:11		1.015	0.715	mg/L	0.030000	0.1015	
* Calcium, Total	3/17/22 10:40	3/22/22 12:35		10.15	225	mg/L	0.70035	4.06	
* Iron, Total	3/17/22 10:40	3/22/22 11:11		1.015	2.14	mg/L	0.008120	0.0406	
* Lithium, Total	3/17/22 10:40	3/22/22 11:11		1.015	0.132	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/17/22 10:40	3/22/22 11:11		1.015	37.3	mg/L	0.021315	0.406	
Silica, Total (calc.)	3/17/22 10:40	3/22/22 11:11		1	9.27	mg/L			
Silicon, Total	3/17/22 10:40	3/22/22 11:11		1.015	4.33	mg/L	0.02030	0.25375	
* Sodium, Total	3/17/22 10:40	3/22/22 12:35		10.15	46.2	mg/L	0.3045	4.06	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	3/17/22 14:16	3/23/22 10:44		1.015	0.729	mg/L	0.030000	0.1015	
* Calcium, Dissolved	3/17/22 14:16	3/23/22 12:16		10.15	231	mg/L	0.70035	4.06	
* Iron, Dissolved	3/17/22 14:16	3/23/22 10:44		1.015	1.90	mg/L	0.008120	0.0406	
* Lithium, Dissolved	3/17/22 14:16	3/23/22 10:44		1.015	0.125	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	3/17/22 14:16	3/23/22 10:44		1.015	36.9	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	3/17/22 14:16	3/23/22 10:44		1	9.33	mg/L			
Silicon, Dissolved	3/17/22 14:16	3/23/22 10:44		1.015	4.36	mg/L	0.02030	0.25375	
* Sodium, Dissolved	3/17/22 14:16	3/23/22 12:16		10.15	48.2	mg/L	0.3045	4.06	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	3/16/22 11:29	3/17/22 19:36		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/16/22 11:29	3/17/22 19:36		1.015	0.0177	mg/L	0.006090	0.01015	
* Arsenic, Total	3/16/22 11:29	3/17/22 19:36		1.015	0.00358	mg/L	0.000081	0.000203	
* Barium, Total	3/16/22 11:29	3/17/22 19:36		1.015	0.0317	mg/L	0.000102	0.000203	
* Beryllium, Total	3/16/22 11:29	3/17/22 19:36		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/16/22 11:29	3/17/22 19:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/16/22 11:29	3/17/22 19:36		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	3/16/22 11:29	3/17/22 19:36		1.015	0.0105	mg/L	0.000068	0.000203	
* Lead, Total	3/16/22 11:29	3/17/22 19:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/16/22 11:29	3/21/22 11:29		5.075	3.53	mg/L	0.000761	0.001015	
* Molybdenum, Total	3/16/22 11:29	3/17/22 19:36		1.015	0.0186	mg/L	0.000102	0.000203	
* Potassium, Total	3/16/22 11:29	3/17/22 19:36		1.015	10.2	mg/L	0.169505	0.5075	

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.



# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-33H

**Location Code:** WMWMILAP  
**Collected:** 3/14/22 11:54  
**Customer ID:**  
**Submittal Date:** 3/15/22 15:31

**Laboratory ID Number:** BC05459

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/16/22 11:29	3/17/22 19:36		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/16/22 11:29	3/17/22 19:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: ABB</b>							
* Antimony, Dissolved	3/16/22 13:41	3/17/22 17:29		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/16/22 13:41	3/17/22 17:29		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/16/22 13:41	3/17/22 17:29		1.015	0.00266	mg/L	0.000081	0.000203	
* Barium, Dissolved	3/16/22 13:41	3/17/22 17:29		1.015	0.0286	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/16/22 13:41	3/17/22 17:29		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/16/22 13:41	3/17/22 17:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/16/22 13:41	3/17/22 17:29		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	3/16/22 13:41	3/17/22 17:29		1.015	0.0104	mg/L	0.000068	0.000203	
* Lead, Dissolved	3/16/22 13:41	3/17/22 17:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/16/22 13:41	3/21/22 10:45		5.075	3.63	mg/L	0.000761	0.001015	
* Molybdenum, Dissolved	3/16/22 13:41	3/17/22 17:29		1.015	0.0187	mg/L	0.000102	0.000203	
* Potassium, Dissolved	3/16/22 13:41	3/17/22 17:29		1.015	9.94	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/16/22 13:41	3/17/22 17:29		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/16/22 13:41	3/17/22 17:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	3/18/22 17:13	3/18/22 21:14		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	3/17/22 13:33	3/17/22 13:33		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity, Total as CaCO3	3/22/22 13:50	3/22/22 16:06		1	74.7	mg/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	3/16/22 11:00	3/17/22 13:20		1	1080	mg/L		75.8	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
Bicarbonate Alkalinity, (calc.)	3/22/22 13:50	3/22/22 16:06		1	74.5	mg/L			A
Carbonate Alkalinity, (calc.)	3/22/22 13:50	3/22/22 16:06		1	0.21	mg/L			A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/18/22 10:09	3/18/22 10:09		1	1.86	mg/L	1.00	2	J

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-33H

**Location Code:** WMWMILAP  
**Collected:** 3/14/22 11:54  
**Customer ID:**  
**Submittal Date:** 3/15/22 15:31

**Laboratory ID Number:** BC05459

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/21/22 10:06	3/21/22 10:06		2	24.3	mg/L	1.00	2	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 09:52	3/22/22 09:52		1	0.186	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/24/22 09:51	3/24/22 09:51		32	730	mg/L	19.2	64	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	3/14/22 11:51	3/14/22 11:51			1179.06	uS/cm			FA
pH	3/14/22 11:51	3/14/22 11:51			6.50	SU			FA
Temperature	3/14/22 11:51	3/14/22 11:51			16.63	C			FA
Turbidity	3/14/22 11:51	3/14/22 11:51			4.32	NTU			FA

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/14/22 11:54  
**Customer ID:**  
**Delivery Date:** 3/15/22 15:31

**Description:** Miller Ash Pond - MW-33H

**Laboratory ID Number:** BC05459

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BC05469	Aluminum, Dissolved	mg/L	-0.000880	0.010	0.100	0.108	0.104	0.105	0.0850 to 0.115	108	70.0 to 130	3.77	20.0
BC05468	Aluminum, Total	mg/L	-0.000449	0.010	0.100	0.0998	0.102	0.102	0.0850 to 0.115	99.8	70.0 to 130	2.18	20.0
BC05469	Antimony, Dissolved	mg/L	0.000396	0.00100	0.100	0.104	0.103	0.0981	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC05468	Antimony, Total	mg/L	0.000280	0.00100	0.100	0.0921	0.0954	0.0956	0.0850 to 0.115	92.1	70.0 to 130	3.52	20.0
BC05469	Arsenic, Dissolved	mg/L	-0.000073	0.000176	0.100	0.104	0.101	0.103	0.0850 to 0.115	104	70.0 to 130	2.93	20.0
BC05468	Arsenic, Total	mg/L	-0.0000172	0.000176	0.100	0.0986	0.0995	0.100	0.0850 to 0.115	98.6	70.0 to 130	0.909	20.0
BC05469	Barium, Dissolved	mg/L	0.0000154	0.000200	0.100	11.6	11.7	0.102	0.0850 to 0.115	-200	70.0 to 130	0.858	20.0
BC05468	Barium, Total	mg/L	-0.0000211	0.000200	0.100	0.0983	0.0988	0.102	0.0850 to 0.115	98.3	70.0 to 130	0.507	20.0
BC05469	Beryllium, Dissolved	mg/L	0.0000186	0.000880	0.100	0.111	0.110	0.0997	0.0850 to 0.115	111	70.0 to 130	0.905	20.0
BC05468	Beryllium, Total	mg/L	0.0000224	0.000880	0.100	0.0930	0.0937	0.0983	0.0850 to 0.115	93.0	70.0 to 130	0.750	20.0
BC05469	Boron, Dissolved	mg/L	0.000007	0.0650	1.00	1.79	1.78	1.01	0.850 to 1.15	106	70.0 to 130	0.560	20.0
BC05077	Boron, Total	mg/L	0.000034	0.0650	1.00	1.09	1.11	0.978	0.850 to 1.15	98.3	70.0 to 130	1.82	20.0
BC05469	Cadmium, Dissolved	mg/L	0.00000	0.000147	0.100	0.0985	0.0989	0.103	0.0850 to 0.115	98.5	70.0 to 130	0.405	20.0
BC05468	Cadmium, Total	mg/L	0.00000	0.000147	0.100	0.0978	0.101	0.102	0.0850 to 0.115	97.8	70.0 to 130	3.22	20.0
BC05469	Calcium, Dissolved	mg/L	-0.0138	0.152	5.00	136	130	4.94	4.25 to 5.75	200	70.0 to 130	4.51	20.0
BC05077	Calcium, Total	mg/L	-0.0138	0.152	5.00	17.9	17.9	4.61	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BC05468	Chloride	mg/L	0.0399	1.00	10.0	10.1	10.2	10.1	9.00 to 11.0	101	80.0 to 120	0.985	20.0
BC05469	Chromium, Dissolved	mg/L	-0.0000686	0.000440	0.100	0.102	0.0977	0.106	0.0850 to 0.115	102	70.0 to 130	4.31	20.0
BC05468	Chromium, Total	mg/L	-0.0000549	0.000440	0.100	0.0996	0.101	0.103	0.0850 to 0.115	99.6	70.0 to 130	1.40	20.0
BC05469	Cobalt, Dissolved	mg/L	-0.0000022	0.000147	0.100	0.102	0.0995	0.111	0.0850 to 0.115	102	70.0 to 130	2.48	20.0
BC05468	Cobalt, Total	mg/L	-0.0000023	0.000147	0.100	0.103	0.105	0.106	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BC05467	Fluoride	mg/L	-0.0324	0.125	2.50	2.66	2.67	2.56	2.25 to 2.75	102	80.0 to 120	0.375	20.0
BC05469	Iron, Dissolved	mg/L	-0.0004	0.0176	0.2	1.70	1.69	0.203	0.170 to 0.230	100	70.0 to 130	0.590	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/14/22 11:54  
**Customer ID:**  
**Delivery Date:** 3/15/22 15:31

**Description:** Miller Ash Pond - MW-33H

**Laboratory ID Number:** BC05459

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05077	Iron, Total	mg/L	0.000222	0.0176	0.2	0.240	0.244	0.199	0.170 to 0.230	95.8	70.0 to 130	1.65	20.0
BC05469	Lead, Dissolved	mg/L	0.0000023	0.000147	0.100	0.0970	0.0974	0.0985	0.0850 to 0.115	97.0	70.0 to 130	0.412	20.0
BC05468	Lead, Total	mg/L	0.0000026	0.000147	0.100	0.0975	0.0991	0.0970	0.0850 to 0.115	97.5	70.0 to 130	1.63	20.0
BC05469	Lithium, Dissolved	mg/L	-0.000216	0.0154	0.200	1.07	1.06	0.192	0.170 to 0.230	110	70.0 to 130	0.939	20.0
BC05077	Lithium, Total	mg/L	-0.000184	0.0154	0.200	0.320	0.329	0.210	0.170 to 0.230	95.0	70.0 to 130	2.77	20.0
BC05469	Magnesium, Dissolved	mg/L	-0.00563	0.0462	5.00	51.1	48.7	5.03	4.25 to 5.75	144	70.0 to 130	4.81	20.0
BC05077	Magnesium, Total	mg/L	0.00456	0.0462	5.00	8.98	9.17	5.21	4.25 to 5.75	95.8	70.0 to 130	2.09	20.0
BC05469	Manganese, Dissolved	mg/L	0.0000155	0.0002	0.100	0.190	0.186	0.108	0.0850 to 0.115	99.5	70.0 to 130	2.13	20.0
BC05468	Manganese, Total	mg/L	0.0000129	0.0002	0.100	0.100	0.102	0.104	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC05467	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00401	0.00399	0.00394	0.00340 to 0.00460	100	70.0 to 130	0.500	20.0
BC05469	Molybdenum, Dissolved	mg/L	0.000003	0.0002	0.100	0.103	0.103	0.106	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC05468	Molybdenum, Total	mg/L	0.0000148	0.0002	0.100	0.0993	0.0993	0.101	0.0850 to 0.115	99.3	70.0 to 130	0.00	20.0
BC05469	Potassium, Dissolved	mg/L	0.000346	0.367	10.0	15.7	15.3	10.6	8.50 to 11.5	98.0	70.0 to 130	2.58	20.0
BC05468	Potassium, Total	mg/L	0.00671	0.367	10.0	9.92	10.2	10.3	8.50 to 11.5	99.2	70.0 to 130	2.78	20.0
BC05469	Selenium, Dissolved	mg/L	0.0000469	0.00100	0.100	0.101	0.102	0.109	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC05468	Selenium, Total	mg/L	0.0000954	0.00100	0.100	0.100	0.102	0.103	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC05469	Silicon, Dissolved	mg/L	0.000265	0.0440	1.00	8.84	8.82	1.03	0.850 to 1.15	111	70.0 to 130	0.227	20.0
BC05077	Silicon, Total	mg/L	-0.000225	0.0440	1.00	7.90	7.98	1.01	0.850 to 1.15	83.0	70.0 to 130	1.01	20.0
BC05469	Sodium, Dissolved	mg/L	0.0394	0.0660	5.00	1650	1580	4.97	4.25 to 5.75	1000	70.0 to 130	4.33	20.0
BC05077	Sodium, Total	mg/L	0.0184	0.0660	5.00	354	356	5.19	4.25 to 5.75	-140	70.0 to 130	0.563	20.0
BC05467	Sulfate	mg/L	-0.0466	2.0	200	322	335	19.8	18.0 to 22.0	108	80.0 to 120	3.96	20.0
BC05469	Thallium, Dissolved	mg/L	0.0000016	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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/14/22 11:54  
**Customer ID:**  
**Delivery Date:** 3/15/22 15:31

**Description:** Miller Ash Pond - MW-33H

**Laboratory ID Number:** BC05459

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05468	Thallium, Total	mg/L	0.0000006	0.000147	0.100	0.0977	0.0987	0.0989	0.0850 to 0.115	97.7	70.0 to 130	1.02	20.0
BC05468	Total Organic Carbon	mg/L	0.270	1.00	10.0	9.71	8.96	8.88		97.1	80.0 to 120	8.03	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

## Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/14/22 11:54  
**Customer ID:**  
**Delivery Date:** 3/15/22 15:31

**Description:** Miller Ash Pond - MW-33H

**Laboratory ID Number:** BC05459

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05464	Alkalinity, Total as CaCO3	mg/L					100	48.6	45.0 to 55.0			0.995	10.0
BC05467	Nitrogen, Nitrate/Nitrite	mg/L as N	0.05	0.200	2.00	1.90	0.057	1.82	1.80 to 2.20	95.0	90.0 to 110	0.00	15.0
BC05460	Solids, Dissolved	mg/L	0.0000	25.0			1200	51.0	40.0 to 60.0			0.837	10.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-5

**Location Code:** WMWMILAP  
**Collected:** 3/14/22 13:05  
**Customer ID:**  
**Submittal Date:** 3/15/22 15:31

**Laboratory ID Number:** BC05460

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	3/17/22 10:40	3/22/22 11:13		1.015	0.864	mg/L	0.030000	0.1015	
* Calcium, Total	3/17/22 10:40	3/22/22 12:37		10.15	228	mg/L	0.70035	4.06	
* Iron, Total	3/17/22 10:40	3/22/22 12:37		10.15	4.53	mg/L	0.08120	0.406	
* Lithium, Total	3/17/22 10:40	3/22/22 11:13		1.015	0.189	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/17/22 10:40	3/22/22 11:13		1.015	34.7	mg/L	0.021315	0.406	
Silica, Total (calc.)	3/17/22 10:40	3/22/22 11:13		1	7.98	mg/L			
Silicon, Total	3/17/22 10:40	3/22/22 11:13		1.015	3.73	mg/L	0.02030	0.25375	
* Sodium, Total	3/17/22 10:40	3/22/22 12:37		10.15	79.6	mg/L	0.3045	4.06	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	3/17/22 14:16	3/23/22 10:45		1.015	0.891	mg/L	0.030000	0.1015	
* Calcium, Dissolved	3/17/22 14:16	3/23/22 12:18		10.15	251	mg/L	0.70035	4.06	
* Iron, Dissolved	3/17/22 14:16	3/23/22 12:18		10.15	4.58	mg/L	0.08120	0.406	
* Lithium, Dissolved	3/17/22 14:16	3/23/22 10:45		1.015	0.183	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	3/17/22 14:16	3/23/22 10:45		1.015	34.5	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	3/17/22 14:16	3/23/22 10:45		1	8.22	mg/L			
Silicon, Dissolved	3/17/22 14:16	3/23/22 10:45		1.015	3.84	mg/L	0.02030	0.25375	
* Sodium, Dissolved	3/17/22 14:16	3/23/22 12:18		10.15	83.3	mg/L	0.3045	4.06	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	3/16/22 11:29	3/17/22 19:40		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/16/22 11:29	3/17/22 19:40		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	3/16/22 11:29	3/17/22 19:40		1.015	0.00987	mg/L	0.000081	0.000203	
* Barium, Total	3/16/22 11:29	3/17/22 19:40		1.015	0.0162	mg/L	0.000102	0.000203	
* Beryllium, Total	3/16/22 11:29	3/17/22 19:40		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/16/22 11:29	3/17/22 19:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/16/22 11:29	3/17/22 19:40		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	3/16/22 11:29	3/17/22 19:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	3/16/22 11:29	3/17/22 19:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/16/22 11:29	3/21/22 11:33		5.075	1.97	mg/L	0.000761	0.001015	
* Molybdenum, Total	3/16/22 11:29	3/17/22 19:40		1.015	0.0753	mg/L	0.000102	0.000203	
* Potassium, Total	3/16/22 11:29	3/17/22 19:40		1.015	9.92	mg/L	0.169505	0.5075	

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-5

**Location Code:** WMWMILAP  
**Collected:** 3/14/22 13:05  
**Customer ID:**  
**Submittal Date:** 3/15/22 15:31

**Laboratory ID Number:** BC05460

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/16/22 11:29	3/17/22 19:40		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/16/22 11:29	3/17/22 19:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: ABB</b>							
* Antimony, Dissolved	3/16/22 13:41	3/17/22 17:33		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/16/22 13:41	3/17/22 17:33		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/16/22 13:41	3/17/22 17:33		1.015	0.00979	mg/L	0.000081	0.000203	
* Barium, Dissolved	3/16/22 13:41	3/17/22 17:33		1.015	0.0171	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/16/22 13:41	3/17/22 17:33		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/16/22 13:41	3/17/22 17:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/16/22 13:41	3/17/22 17:33		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	3/16/22 13:41	3/17/22 17:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	3/16/22 13:41	3/17/22 17:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/16/22 13:41	3/21/22 10:49		5.075	1.92	mg/L	0.000761	0.001015	
* Molybdenum, Dissolved	3/16/22 13:41	3/17/22 17:33		1.015	0.0772	mg/L	0.000102	0.000203	
* Potassium, Dissolved	3/16/22 13:41	3/17/22 17:33		1.015	9.82	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/16/22 13:41	3/17/22 17:33		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/16/22 13:41	3/17/22 17:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	3/18/22 17:13	3/18/22 21:18		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	3/17/22 13:34	3/17/22 13:34		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity, Total as CaCO3	3/22/22 13:50	3/22/22 16:06		1	90.4	mg/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	3/16/22 11:00	3/17/22 13:20		1	1190	mg/L		75.8	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
Bicarbonate Alkalinity, (calc.)	3/22/22 13:50	3/22/22 16:06		1	89.8	mg/L			A
Carbonate Alkalinity, (calc.)	3/22/22 13:50	3/22/22 16:06		1	0.52	mg/L			A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/18/22 10:24	3/18/22 10:24		1	1.48	mg/L	1.00	2	J

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.



# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-5

**Location Code:** WMWMILAP  
**Collected:** 3/14/22 13:05  
**Customer ID:**  
**Submittal Date:** 3/15/22 15:31

**Laboratory ID Number:** BC05460

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/21/22 10:07	3/21/22 10:07		2	26.1	mg/L	1.00	2	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 09:53	3/22/22 09:53		1	0.405	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/24/22 09:52	3/24/22 09:52		32	810	mg/L	19.2	64	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	3/14/22 13:02	3/14/22 13:02			1511.60	uS/cm			FA
pH	3/14/22 13:02	3/14/22 13:02			6.92	SU			FA
Temperature	3/14/22 13:02	3/14/22 13:02			16.08	C			FA
Turbidity	3/14/22 13:02	3/14/22 13:02			0.31	NTU			FA

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/14/22 13:05  
**Customer ID:**  
**Delivery Date:** 3/15/22 15:31

**Description:** Miller Ash Pond - MW-5

**Laboratory ID Number:** BC05460

Sample	Analysis	Units	MB	MB		MS	MSD	Standard	Standard		Rec		Prec	Limit
				Limit	Spike				Limit	Rec	Limit	Prec		
BC05469	Aluminum, Dissolved	mg/L	-0.000880	0.010	0.100	0.108	0.104	0.105	0.0850 to 0.115	108	70.0 to 130	3.77	20.0	
BC05468	Aluminum, Total	mg/L	-0.000449	0.010	0.100	0.0998	0.102	0.102	0.0850 to 0.115	99.8	70.0 to 130	2.18	20.0	
BC05469	Antimony, Dissolved	mg/L	0.000396	0.00100	0.100	0.104	0.103	0.0981	0.0850 to 0.115	104	70.0 to 130	0.966	20.0	
BC05468	Antimony, Total	mg/L	0.000280	0.00100	0.100	0.0921	0.0954	0.0956	0.0850 to 0.115	92.1	70.0 to 130	3.52	20.0	
BC05469	Arsenic, Dissolved	mg/L	-0.000073	0.000176	0.100	0.104	0.101	0.103	0.0850 to 0.115	104	70.0 to 130	2.93	20.0	
BC05468	Arsenic, Total	mg/L	-0.0000172	0.000176	0.100	0.0986	0.0995	0.100	0.0850 to 0.115	98.6	70.0 to 130	0.909	20.0	
BC05469	Barium, Dissolved	mg/L	0.0000154	0.000200	0.100	11.6	11.7	0.102	0.0850 to 0.115	-200	70.0 to 130	0.858	20.0	
BC05468	Barium, Total	mg/L	-0.0000211	0.000200	0.100	0.0983	0.0988	0.102	0.0850 to 0.115	98.3	70.0 to 130	0.507	20.0	
BC05469	Beryllium, Dissolved	mg/L	0.0000186	0.000880	0.100	0.111	0.110	0.0997	0.0850 to 0.115	111	70.0 to 130	0.905	20.0	
BC05468	Beryllium, Total	mg/L	0.0000224	0.000880	0.100	0.0930	0.0937	0.0983	0.0850 to 0.115	93.0	70.0 to 130	0.750	20.0	
BC05469	Boron, Dissolved	mg/L	0.000007	0.0650	1.00	1.79	1.78	1.01	0.850 to 1.15	106	70.0 to 130	0.560	20.0	
BC05077	Boron, Total	mg/L	0.000034	0.0650	1.00	1.09	1.11	0.978	0.850 to 1.15	98.3	70.0 to 130	1.82	20.0	
BC05469	Cadmium, Dissolved	mg/L	0.000000	0.000147	0.100	0.0985	0.0989	0.103	0.0850 to 0.115	98.5	70.0 to 130	0.405	20.0	
BC05468	Cadmium, Total	mg/L	0.000000	0.000147	0.100	0.0978	0.101	0.102	0.0850 to 0.115	97.8	70.0 to 130	3.22	20.0	
BC05469	Calcium, Dissolved	mg/L	-0.0138	0.152	5.00	136	130	4.94	4.25 to 5.75	200	70.0 to 130	4.51	20.0	
BC05077	Calcium, Total	mg/L	-0.0138	0.152	5.00	17.9	17.9	4.61	4.25 to 5.75	100	70.0 to 130	0.00	20.0	
BC05468	Chloride	mg/L	0.0399	1.00	10.0	10.1	10.2	10.1	9.00 to 11.0	101	80.0 to 120	0.985	20.0	
BC05469	Chromium, Dissolved	mg/L	-0.0000686	0.000440	0.100	0.102	0.0977	0.106	0.0850 to 0.115	102	70.0 to 130	4.31	20.0	
BC05468	Chromium, Total	mg/L	-0.0000549	0.000440	0.100	0.0996	0.101	0.103	0.0850 to 0.115	99.6	70.0 to 130	1.40	20.0	
BC05469	Cobalt, Dissolved	mg/L	-0.0000022	0.000147	0.100	0.102	0.0995	0.111	0.0850 to 0.115	102	70.0 to 130	2.48	20.0	
BC05468	Cobalt, Total	mg/L	-0.0000023	0.000147	0.100	0.103	0.105	0.106	0.0850 to 0.115	103	70.0 to 130	1.92	20.0	
BC05467	Fluoride	mg/L	-0.0324	0.125	2.50	2.66	2.67	2.56	2.25 to 2.75	102	80.0 to 120	0.375	20.0	
BC05469	Iron, Dissolved	mg/L	-0.0004	0.0176	0.2	1.70	1.69	0.203	0.170 to 0.230	100	70.0 to 130	0.590	20.0	

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/14/22 13:05  
**Customer ID:**  
**Delivery Date:** 3/15/22 15:31

**Description:** Miller Ash Pond - MW-5

**Laboratory ID Number:** BC05460

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05077	Iron, Total	mg/L	0.000222	0.0176	0.2	0.240	0.244	0.199	0.170 to 0.230	95.8	70.0 to 130	1.65	20.0
BC05469	Lead, Dissolved	mg/L	0.0000023	0.000147	0.100	0.0970	0.0974	0.0985	0.0850 to 0.115	97.0	70.0 to 130	0.412	20.0
BC05468	Lead, Total	mg/L	0.0000026	0.000147	0.100	0.0975	0.0991	0.0970	0.0850 to 0.115	97.5	70.0 to 130	1.63	20.0
BC05469	Lithium, Dissolved	mg/L	-0.000216	0.0154	0.200	1.07	1.06	0.192	0.170 to 0.230	110	70.0 to 130	0.939	20.0
BC05077	Lithium, Total	mg/L	-0.000184	0.0154	0.200	0.320	0.329	0.210	0.170 to 0.230	95.0	70.0 to 130	2.77	20.0
BC05469	Magnesium, Dissolved	mg/L	-0.00563	0.0462	5.00	51.1	48.7	5.03	4.25 to 5.75	144	70.0 to 130	4.81	20.0
BC05077	Magnesium, Total	mg/L	0.00456	0.0462	5.00	8.98	9.17	5.21	4.25 to 5.75	95.8	70.0 to 130	2.09	20.0
BC05469	Manganese, Dissolved	mg/L	0.0000155	0.0002	0.100	0.190	0.186	0.108	0.0850 to 0.115	99.5	70.0 to 130	2.13	20.0
BC05468	Manganese, Total	mg/L	0.0000129	0.0002	0.100	0.100	0.102	0.104	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC05467	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00401	0.00399	0.00394	0.00340 to 0.00460	100	70.0 to 130	0.500	20.0
BC05469	Molybdenum, Dissolved	mg/L	0.000003	0.0002	0.100	0.103	0.103	0.106	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC05468	Molybdenum, Total	mg/L	0.0000148	0.0002	0.100	0.0993	0.0993	0.101	0.0850 to 0.115	99.3	70.0 to 130	0.00	20.0
BC05469	Potassium, Dissolved	mg/L	0.000346	0.367	10.0	15.7	15.3	10.6	8.50 to 11.5	98.0	70.0 to 130	2.58	20.0
BC05468	Potassium, Total	mg/L	0.00671	0.367	10.0	9.92	10.2	10.3	8.50 to 11.5	99.2	70.0 to 130	2.78	20.0
BC05469	Selenium, Dissolved	mg/L	0.0000469	0.00100	0.100	0.101	0.102	0.109	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC05468	Selenium, Total	mg/L	0.0000954	0.00100	0.100	0.100	0.102	0.103	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC05469	Silicon, Dissolved	mg/L	0.000265	0.0440	1.00	8.84	8.82	1.03	0.850 to 1.15	111	70.0 to 130	0.227	20.0
BC05077	Silicon, Total	mg/L	-0.000225	0.0440	1.00	7.90	7.98	1.01	0.850 to 1.15	83.0	70.0 to 130	1.01	20.0
BC05469	Sodium, Dissolved	mg/L	0.0394	0.0660	5.00	1650	1580	4.97	4.25 to 5.75	1000	70.0 to 130	4.33	20.0
BC05077	Sodium, Total	mg/L	0.0184	0.0660	5.00	354	356	5.19	4.25 to 5.75	-140	70.0 to 130	0.563	20.0
BC05467	Sulfate	mg/L	-0.0466	2.0	200	322	335	19.8	18.0 to 22.0	108	80.0 to 120	3.96	20.0
BC05469	Thallium, Dissolved	mg/L	0.0000016	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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/14/22 13:05  
**Customer ID:**  
**Delivery Date:** 3/15/22 15:31

**Description:** Miller Ash Pond - MW-5

**Laboratory ID Number:** BC05460

Sample	Analysis	Units	MB	MB				MSD	Standard	Standard Limit	Rec		Prec Limit
				Limit	Spike	MS	MSD				Rec	Limit	
BC05468	Thallium, Total	mg/L	0.0000006	0.000147	0.100	0.0977	0.0987	0.0989	0.0850 to 0.115	97.7	70.0 to 130	1.02	20.0
BC05468	Total Organic Carbon	mg/L	0.270	1.00	10.0	9.71	8.96	8.88		97.1	80.0 to 120	8.03	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

## Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/14/22 13:05  
**Customer ID:**  
**Delivery Date:** 3/15/22 15:31

**Description:** Miller Ash Pond - MW-5

**Laboratory ID Number:** BC05460

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec Rec	Rec Limit	Prec	Prec Limit
BC05464	Alkalinity, Total as CaCO3	mg/L					100	48.6	45.0 to 55.0			0.995	10.0
BC05467	Nitrogen, Nitrate/Nitrite	mg/L as N	0.05	0.200	2.00	1.90	0.057	1.82	1.80 to 2.20	95.0	90.0 to 110	0.00	15.0
BC05460	Solids, Dissolved	mg/L	0.0000	25.0			1200	51.0	40.0 to 60.0			0.837	10.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-5 DUP

**Location Code:** WMWMILAP  
**Collected:** 3/14/22 13:05  
**Customer ID:**  
**Submittal Date:** 3/15/22 15:31

**Laboratory ID Number:** BC05461

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	3/17/22 10:40	3/22/22 11:15		1.015	0.867	mg/L	0.030000	0.1015	
* Calcium, Total	3/17/22 10:40	3/22/22 12:39		10.15	250	mg/L	0.70035	4.06	
* Iron, Total	3/17/22 10:40	3/22/22 12:39		10.15	4.68	mg/L	0.08120	0.406	
* Lithium, Total	3/17/22 10:40	3/22/22 11:15		1.015	0.184	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/17/22 10:40	3/22/22 11:15		1.015	34.4	mg/L	0.021315	0.406	
Silica, Total (calc.)	3/17/22 10:40	3/22/22 11:15		1	7.98	mg/L			
Silicon, Total	3/17/22 10:40	3/22/22 11:15		1.015	3.73	mg/L	0.02030	0.25375	
* Sodium, Total	3/17/22 10:40	3/22/22 12:39		10.15	88.8	mg/L	0.3045	4.06	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	3/17/22 14:16	3/23/22 10:47		1.015	0.893	mg/L	0.030000	0.1015	
* Calcium, Dissolved	3/17/22 14:16	3/23/22 12:20		10.15	258	mg/L	0.70035	4.06	
* Iron, Dissolved	3/17/22 14:16	3/23/22 12:20		10.15	4.55	mg/L	0.08120	0.406	
* Lithium, Dissolved	3/17/22 14:16	3/23/22 10:47		1.015	0.184	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	3/17/22 14:16	3/23/22 10:47		1.015	34.7	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	3/17/22 14:16	3/23/22 10:47		1	8.24	mg/L			
Silicon, Dissolved	3/17/22 14:16	3/23/22 10:47		1.015	3.85	mg/L	0.02030	0.25375	
* Sodium, Dissolved	3/17/22 14:16	3/23/22 12:20		10.15	85.3	mg/L	0.3045	4.06	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	3/16/22 11:29	3/17/22 19:43		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/16/22 11:29	3/17/22 19:43		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	3/16/22 11:29	3/17/22 19:43		1.015	0.00988	mg/L	0.000081	0.000203	
* Barium, Total	3/16/22 11:29	3/17/22 19:43		1.015	0.0162	mg/L	0.000102	0.000203	
* Beryllium, Total	3/16/22 11:29	3/17/22 19:43		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/16/22 11:29	3/17/22 19:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/16/22 11:29	3/17/22 19:43		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	3/16/22 11:29	3/17/22 19:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	3/16/22 11:29	3/17/22 19:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/16/22 11:29	3/21/22 11:37		5.075	2.01	mg/L	0.000761	0.001015	
* Molybdenum, Total	3/16/22 11:29	3/17/22 19:43		1.015	0.0762	mg/L	0.000102	0.000203	
* Potassium, Total	3/16/22 11:29	3/17/22 19:43		1.015	9.69	mg/L	0.169505	0.5075	

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-5 DUP

**Location Code:** WMWMILAP  
**Collected:** 3/14/22 13:05  
**Customer ID:**  
**Submittal Date:** 3/15/22 15:31

**Laboratory ID Number:** BC05461

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/16/22 11:29	3/17/22 19:43		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/16/22 11:29	3/17/22 19:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: ABB</b>							
* Antimony, Dissolved	3/16/22 13:41	3/17/22 17:36		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/16/22 13:41	3/17/22 17:36		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/16/22 13:41	3/17/22 17:36		1.015	0.0101	mg/L	0.000081	0.000203	
* Barium, Dissolved	3/16/22 13:41	3/17/22 17:36		1.015	0.0168	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/16/22 13:41	3/17/22 17:36		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/16/22 13:41	3/17/22 17:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/16/22 13:41	3/17/22 17:36		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	3/16/22 13:41	3/17/22 17:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	3/16/22 13:41	3/17/22 17:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/16/22 13:41	3/21/22 10:53		5.075	1.92	mg/L	0.000761	0.001015	
* Molybdenum, Dissolved	3/16/22 13:41	3/17/22 17:36		1.015	0.0773	mg/L	0.000102	0.000203	
* Potassium, Dissolved	3/16/22 13:41	3/17/22 17:36		1.015	9.70	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/16/22 13:41	3/17/22 17:36		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/16/22 13:41	3/17/22 17:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	3/18/22 17:13	3/18/22 21:22		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	3/17/22 13:36	3/17/22 13:36		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity, Total as CaCO3	3/22/22 13:50	3/22/22 16:06		1	82.8	mg/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	3/16/22 11:00	3/17/22 13:20		1	1190	mg/L		75.8	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
Bicarbonate Alkalinity, (calc.)	3/22/22 13:50	3/22/22 16:06		1	82.4	mg/L			A
Carbonate Alkalinity, (calc.)	3/22/22 13:50	3/22/22 16:06		1	0.36	mg/L			A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/18/22 10:39	3/18/22 10:39		1	1.74	mg/L	1.00	2	J

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-5 DUP

**Location Code:** WMWMILAP  
**Collected:** 3/14/22 13:05  
**Customer ID:**  
**Submittal Date:** 3/15/22 15:31

**Laboratory ID Number:** BC05461

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/21/22 10:08	3/21/22 10:08		2	26.5	mg/L	1.00	2	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 09:54	3/22/22 09:54		1	0.370	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/24/22 09:54	3/24/22 09:54		32	792	mg/L	19.2	64	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	3/14/22 13:02	3/14/22 13:02			1511.60	uS/cm			FA
pH	3/14/22 13:02	3/14/22 13:02			6.92	SU			FA
Temperature	3/14/22 13:02	3/14/22 13:02			16.08	C			FA
Turbidity	3/14/22 13:02	3/14/22 13:02			0.31	NTU			FA

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.



# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/14/22 13:05  
**Customer ID:**  
**Delivery Date:** 3/15/22 15:31

**Description:** Miller Ash Pond - MW-5 DUP

**Laboratory ID Number:** BC05461

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC05469	Aluminum, Dissolved	mg/L	-0.000880	0.010	0.100	0.108	0.104	0.105	0.0850 to 0.115	108	70.0 to 130	3.77	20.0
BC05468	Aluminum, Total	mg/L	-0.000449	0.010	0.100	0.0998	0.102	0.102	0.0850 to 0.115	99.8	70.0 to 130	2.18	20.0
BC05469	Antimony, Dissolved	mg/L	0.000396	0.00100	0.100	0.104	0.103	0.0981	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC05468	Antimony, Total	mg/L	0.000280	0.00100	0.100	0.0921	0.0954	0.0956	0.0850 to 0.115	92.1	70.0 to 130	3.52	20.0
BC05469	Arsenic, Dissolved	mg/L	-0.000073	0.000176	0.100	0.104	0.101	0.103	0.0850 to 0.115	104	70.0 to 130	2.93	20.0
BC05468	Arsenic, Total	mg/L	-0.0000172	0.000176	0.100	0.0986	0.0995	0.100	0.0850 to 0.115	98.6	70.0 to 130	0.909	20.0
BC05469	Barium, Dissolved	mg/L	0.0000154	0.000200	0.100	11.6	11.7	0.102	0.0850 to 0.115	-200	70.0 to 130	0.858	20.0
BC05468	Barium, Total	mg/L	-0.0000211	0.000200	0.100	0.0983	0.0988	0.102	0.0850 to 0.115	98.3	70.0 to 130	0.507	20.0
BC05469	Beryllium, Dissolved	mg/L	0.0000186	0.000880	0.100	0.111	0.110	0.0997	0.0850 to 0.115	111	70.0 to 130	0.905	20.0
BC05468	Beryllium, Total	mg/L	0.0000224	0.000880	0.100	0.0930	0.0937	0.0983	0.0850 to 0.115	93.0	70.0 to 130	0.750	20.0
BC05469	Boron, Dissolved	mg/L	0.000007	0.0650	1.00	1.79	1.78	1.01	0.850 to 1.15	106	70.0 to 130	0.560	20.0
BC05077	Boron, Total	mg/L	0.000034	0.0650	1.00	1.09	1.11	0.978	0.850 to 1.15	98.3	70.0 to 130	1.82	20.0
BC05469	Cadmium, Dissolved	mg/L	0.00000	0.000147	0.100	0.0985	0.0989	0.103	0.0850 to 0.115	98.5	70.0 to 130	0.405	20.0
BC05468	Cadmium, Total	mg/L	0.00000	0.000147	0.100	0.0978	0.101	0.102	0.0850 to 0.115	97.8	70.0 to 130	3.22	20.0
BC05469	Calcium, Dissolved	mg/L	-0.0138	0.152	5.00	136	130	4.94	4.25 to 5.75	200	70.0 to 130	4.51	20.0
BC05077	Calcium, Total	mg/L	-0.0138	0.152	5.00	17.9	17.9	4.61	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BC05468	Chloride	mg/L	0.0399	1.00	10.0	10.1	10.2	10.1	9.00 to 11.0	101	80.0 to 120	0.985	20.0
BC05469	Chromium, Dissolved	mg/L	-0.0000686	0.000440	0.100	0.102	0.0977	0.106	0.0850 to 0.115	102	70.0 to 130	4.31	20.0
BC05468	Chromium, Total	mg/L	-0.0000549	0.000440	0.100	0.0996	0.101	0.103	0.0850 to 0.115	99.6	70.0 to 130	1.40	20.0
BC05469	Cobalt, Dissolved	mg/L	-0.0000022	0.000147	0.100	0.102	0.0995	0.111	0.0850 to 0.115	102	70.0 to 130	2.48	20.0
BC05468	Cobalt, Total	mg/L	-0.0000023	0.000147	0.100	0.103	0.105	0.106	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BC05467	Fluoride	mg/L	-0.0324	0.125	2.50	2.66	2.67	2.56	2.25 to 2.75	102	80.0 to 120	0.375	20.0
BC05469	Iron, Dissolved	mg/L	-0.0004	0.0176	0.2	1.70	1.69	0.203	0.170 to 0.230	100	70.0 to 130	0.590	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/14/22 13:05  
**Customer ID:**  
**Delivery Date:** 3/15/22 15:31

**Description:** Miller Ash Pond - MW-5 DUP

**Laboratory ID Number:** BC05461

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05077	Iron, Total	mg/L	0.000222	0.0176	0.2	0.240	0.244	0.199	0.170 to 0.230	95.8	70.0 to 130	1.65	20.0
BC05469	Lead, Dissolved	mg/L	0.0000023	0.000147	0.100	0.0970	0.0974	0.0985	0.0850 to 0.115	97.0	70.0 to 130	0.412	20.0
BC05468	Lead, Total	mg/L	0.0000026	0.000147	0.100	0.0975	0.0991	0.0970	0.0850 to 0.115	97.5	70.0 to 130	1.63	20.0
BC05469	Lithium, Dissolved	mg/L	-0.000216	0.0154	0.200	1.07	1.06	0.192	0.170 to 0.230	110	70.0 to 130	0.939	20.0
BC05077	Lithium, Total	mg/L	-0.000184	0.0154	0.200	0.320	0.329	0.210	0.170 to 0.230	95.0	70.0 to 130	2.77	20.0
BC05469	Magnesium, Dissolved	mg/L	-0.00563	0.0462	5.00	51.1	48.7	5.03	4.25 to 5.75	144	70.0 to 130	4.81	20.0
BC05077	Magnesium, Total	mg/L	0.00456	0.0462	5.00	8.98	9.17	5.21	4.25 to 5.75	95.8	70.0 to 130	2.09	20.0
BC05469	Manganese, Dissolved	mg/L	0.0000155	0.0002	0.100	0.190	0.186	0.108	0.0850 to 0.115	99.5	70.0 to 130	2.13	20.0
BC05468	Manganese, Total	mg/L	0.0000129	0.0002	0.100	0.100	0.102	0.104	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC05467	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00401	0.00399	0.00394	0.00340 to 0.00460	100	70.0 to 130	0.500	20.0
BC05469	Molybdenum, Dissolved	mg/L	0.000003	0.0002	0.100	0.103	0.103	0.106	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC05468	Molybdenum, Total	mg/L	0.0000148	0.0002	0.100	0.0993	0.0993	0.101	0.0850 to 0.115	99.3	70.0 to 130	0.00	20.0
BC05469	Potassium, Dissolved	mg/L	0.000346	0.367	10.0	15.7	15.3	10.6	8.50 to 11.5	98.0	70.0 to 130	2.58	20.0
BC05468	Potassium, Total	mg/L	0.00671	0.367	10.0	9.92	10.2	10.3	8.50 to 11.5	99.2	70.0 to 130	2.78	20.0
BC05469	Selenium, Dissolved	mg/L	0.0000469	0.00100	0.100	0.101	0.102	0.109	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC05468	Selenium, Total	mg/L	0.0000954	0.00100	0.100	0.100	0.102	0.103	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC05469	Silicon, Dissolved	mg/L	0.000265	0.0440	1.00	8.84	8.82	1.03	0.850 to 1.15	111	70.0 to 130	0.227	20.0
BC05077	Silicon, Total	mg/L	-0.000225	0.0440	1.00	7.90	7.98	1.01	0.850 to 1.15	83.0	70.0 to 130	1.01	20.0
BC05469	Sodium, Dissolved	mg/L	0.0394	0.0660	5.00	1650	1580	4.97	4.25 to 5.75	1000	70.0 to 130	4.33	20.0
BC05077	Sodium, Total	mg/L	0.0184	0.0660	5.00	354	356	5.19	4.25 to 5.75	-140	70.0 to 130	0.563	20.0
BC05467	Sulfate	mg/L	-0.0466	2.0	200	322	335	19.8	18.0 to 22.0	108	80.0 to 120	3.96	20.0
BC05469	Thallium, Dissolved	mg/L	0.0000016	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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/14/22 13:05  
**Customer ID:**  
**Delivery Date:** 3/15/22 15:31

**Description:** Miller Ash Pond - MW-5 DUP

**Laboratory ID Number:** BC05461

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05468	Thallium, Total	mg/L	0.0000006	0.000147	0.100	0.0977	0.0987	0.0989	0.0850 to 0.115	97.7	70.0 to 130	1.02	20.0
BC05468	Total Organic Carbon	mg/L	0.270	1.00	10.0	9.71	8.96	8.88		97.1	80.0 to 120	8.03	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

## Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/14/22 13:05  
**Customer ID:**  
**Delivery Date:** 3/15/22 15:31

**Description:** Miller Ash Pond - MW-5 DUP

**Laboratory ID Number:** BC05461

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05464	Alkalinity, Total as CaCO3	mg/L					100	48.6	45.0 to 55.0			0.995	10.0
BC05467	Nitrogen, Nitrate/Nitrite	mg/L as N	0.05	0.200	2.00	1.90	0.057	1.82	1.80 to 2.20	95.0	90.0 to 110	0.00	15.0
BC05470	Solids, Dissolved	mg/L	0.0000	25.0			882	51.0	40.0 to 60.0			1.69	10.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - PZ-5

**Location Code:** WMWMILAP  
**Collected:** 3/14/22 14:58  
**Customer ID:**  
**Submittal Date:** 3/15/22 15:31

**Laboratory ID Number:** BC05462

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	3/17/22 10:40	3/22/22 11:17		1.015	0.245	mg/L	0.030000	0.1015		
* Calcium, Total	3/17/22 10:40	3/22/22 11:17		1.015	6.95	mg/L	0.070035	0.406		
* Iron, Total	3/17/22 10:40	3/22/22 11:17		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	3/17/22 10:40	3/22/22 11:17		1.015	0.143	mg/L	0.007105	0.01999956		
* Magnesium, Total	3/17/22 10:40	3/22/22 11:17		1.015	2.74	mg/L	0.021315	0.406		
Silica, Total (calc.)	3/17/22 10:40	3/22/22 11:17		1	9.24	mg/L				
Silicon, Total	3/17/22 10:40	3/22/22 11:17		1.015	4.32	mg/L	0.02030	0.25375		
* Sodium, Total	3/17/22 10:40	3/22/22 12:41		10.15	322	mg/L	0.3045	4.06		
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Dissolved	3/17/22 14:16	3/23/22 10:49		1.015	0.249	mg/L	0.030000	0.1015		
* Calcium, Dissolved	3/17/22 14:16	3/23/22 10:49		1.015	7.74	mg/L	0.070035	0.406		
* Iron, Dissolved	3/17/22 14:16	3/23/22 10:49		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Dissolved	3/17/22 14:16	3/23/22 10:49		1.015	0.133	mg/L	0.007105	0.01999956		
* Magnesium, Dissolved	3/17/22 14:16	3/23/22 10:49		1.015	2.66	mg/L	0.021315	0.406		
Silica, Dissolved (calc.)	3/17/22 14:16	3/23/22 10:49		1	9.50	mg/L				
Silicon, Dissolved	3/17/22 14:16	3/23/22 10:49		1.015	4.44	mg/L	0.02030	0.25375		
* Sodium, Dissolved	3/17/22 14:16	3/23/22 12:22		10.15	333	mg/L	0.3045	4.06		
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	3/16/22 11:29	3/17/22 19:47		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	3/16/22 11:29	3/17/22 19:47		1.015	0.0138	mg/L	0.006090	0.01015		
* Arsenic, Total	3/16/22 11:29	3/17/22 19:47		1.015	0.0000882	mg/L	0.000081	0.000203	J	
* Barium, Total	3/16/22 11:29	3/17/22 19:47		1.015	0.267	mg/L	0.000102	0.000203		
* Beryllium, Total	3/16/22 11:29	3/17/22 19:47		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	3/16/22 11:29	3/17/22 19:47		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	3/16/22 11:29	3/17/22 19:47		1.015	0.000240	mg/L	0.000203	0.001015	J	
* Cobalt, Total	3/16/22 11:29	3/17/22 19:47		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	3/16/22 11:29	3/17/22 19:47		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	3/16/22 11:29	3/17/22 19:47		1.015	0.0104	mg/L	0.000152	0.000203		
* Molybdenum, Total	3/16/22 11:29	3/17/22 19:47		1.015	0.000335	mg/L	0.000102	0.000203		
* Potassium, Total	3/16/22 11:29	3/17/22 19:47		1.015	2.44	mg/L	0.169505	0.5075		

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - PZ-5

**Location Code:** WMWMILAP  
**Collected:** 3/14/22 14:58  
**Customer ID:**  
**Submittal Date:** 3/15/22 15:31

**Laboratory ID Number:** BC05462

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/16/22 11:29	3/17/22 19:47		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/16/22 11:29	3/17/22 19:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: ABB</b>							
* Antimony, Dissolved	3/16/22 13:41	3/17/22 17:40		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/16/22 13:41	3/17/22 17:40		1.015	0.0139	mg/L	0.006090	0.01015	
* Arsenic, Dissolved	3/16/22 13:41	3/17/22 17:40		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Dissolved	3/16/22 13:41	3/17/22 17:40		1.015	0.265	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/16/22 13:41	3/17/22 17:40		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/16/22 13:41	3/17/22 17:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/16/22 13:41	3/17/22 17:40		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	3/16/22 13:41	3/17/22 17:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	3/16/22 13:41	3/17/22 17:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/16/22 13:41	3/17/22 17:40		1.015	0.0106	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/16/22 13:41	3/17/22 17:40		1.015	0.000308	mg/L	0.000102	0.000203	
* Potassium, Dissolved	3/16/22 13:41	3/17/22 17:40		1.015	2.52	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/16/22 13:41	3/17/22 17:40		1.015	0.0351	mg/L	0.000508	0.001015	
* Thallium, Dissolved	3/16/22 13:41	3/17/22 17:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	3/18/22 17:13	3/18/22 21:26		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	3/17/22 13:38	3/17/22 13:38		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity, Total as CaCO3	3/22/22 13:50	3/22/22 16:06		1	681	mg/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	3/16/22 11:00	3/17/22 13:20		1	748	mg/L		75.8	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
Bicarbonate Alkalinity, (calc.)	3/22/22 13:50	3/22/22 16:06		1	662	mg/L			A
Carbonate Alkalinity, (calc.)	3/22/22 13:50	3/22/22 16:06		1	18.8	mg/L			A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/18/22 10:54	3/18/22 10:54		1	2.57	mg/L	1.00	2	

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - PZ-5

**Location Code:** WMWMILAP  
**Collected:** 3/14/22 14:58  
**Customer ID:**  
**Submittal Date:** 3/15/22 15:31

**Laboratory ID Number:** BC05462

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/21/22 10:09	3/21/22 10:09		3	30.7	mg/L	1.50	3	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 09:56	3/22/22 09:56		1	2.28	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/24/22 09:55	3/24/22 09:55		2	51.7	mg/L	1.2	4	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	3/14/22 14:55	3/14/22 14:55			1231.92	uS/cm			FA
pH	3/14/22 14:55	3/14/22 14:55			8.47	SU			FA
Temperature	3/14/22 14:55	3/14/22 14:55			16.78	C			FA
Turbidity	3/14/22 14:55	3/14/22 14:55			0.01	NTU			FA

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/14/22 14:58  
**Customer ID:**  
**Delivery Date:** 3/15/22 15:31

**Description:** Miller Ash Pond - PZ-5

**Laboratory ID Number:** BC05462

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05469	Aluminum, Dissolved	mg/L	-0.000880	0.010	0.100	0.108	0.104	0.105	0.0850 to 0.115	108	70.0 to 130	3.77	20.0
BC05468	Aluminum, Total	mg/L	-0.000449	0.010	0.100	0.0998	0.102	0.102	0.0850 to 0.115	99.8	70.0 to 130	2.18	20.0
BC05469	Antimony, Dissolved	mg/L	0.000396	0.00100	0.100	0.104	0.103	0.0981	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC05468	Antimony, Total	mg/L	0.000280	0.00100	0.100	0.0921	0.0954	0.0956	0.0850 to 0.115	92.1	70.0 to 130	3.52	20.0
BC05469	Arsenic, Dissolved	mg/L	-0.000073	0.000176	0.100	0.104	0.101	0.103	0.0850 to 0.115	104	70.0 to 130	2.93	20.0
BC05468	Arsenic, Total	mg/L	-0.0000172	0.000176	0.100	0.0986	0.0995	0.100	0.0850 to 0.115	98.6	70.0 to 130	0.909	20.0
BC05469	Barium, Dissolved	mg/L	0.0000154	0.000200	0.100	11.6	11.7	0.102	0.0850 to 0.115	-200	70.0 to 130	0.858	20.0
BC05468	Barium, Total	mg/L	-0.0000211	0.000200	0.100	0.0983	0.0988	0.102	0.0850 to 0.115	98.3	70.0 to 130	0.507	20.0
BC05469	Beryllium, Dissolved	mg/L	0.0000186	0.000880	0.100	0.111	0.110	0.0997	0.0850 to 0.115	111	70.0 to 130	0.905	20.0
BC05468	Beryllium, Total	mg/L	0.0000224	0.000880	0.100	0.0930	0.0937	0.0983	0.0850 to 0.115	93.0	70.0 to 130	0.750	20.0
BC05469	Boron, Dissolved	mg/L	0.000007	0.0650	1.00	1.79	1.78	1.01	0.850 to 1.15	106	70.0 to 130	0.560	20.0
BC05077	Boron, Total	mg/L	0.000034	0.0650	1.00	1.09	1.11	0.978	0.850 to 1.15	98.3	70.0 to 130	1.82	20.0
BC05469	Cadmium, Dissolved	mg/L	0.00000	0.000147	0.100	0.0985	0.0989	0.103	0.0850 to 0.115	98.5	70.0 to 130	0.405	20.0
BC05468	Cadmium, Total	mg/L	0.00000	0.000147	0.100	0.0978	0.101	0.102	0.0850 to 0.115	97.8	70.0 to 130	3.22	20.0
BC05469	Calcium, Dissolved	mg/L	-0.0138	0.152	5.00	136	130	4.94	4.25 to 5.75	200	70.0 to 130	4.51	20.0
BC05077	Calcium, Total	mg/L	-0.0138	0.152	5.00	17.9	17.9	4.61	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BC05468	Chloride	mg/L	0.0399	1.00	10.0	10.1	10.2	10.1	9.00 to 11.0	101	80.0 to 120	0.985	20.0
BC05469	Chromium, Dissolved	mg/L	-0.0000686	0.000440	0.100	0.102	0.0977	0.106	0.0850 to 0.115	102	70.0 to 130	4.31	20.0
BC05468	Chromium, Total	mg/L	-0.0000549	0.000440	0.100	0.0996	0.101	0.103	0.0850 to 0.115	99.6	70.0 to 130	1.40	20.0
BC05469	Cobalt, Dissolved	mg/L	-0.0000022	0.000147	0.100	0.102	0.0995	0.111	0.0850 to 0.115	102	70.0 to 130	2.48	20.0
BC05468	Cobalt, Total	mg/L	-0.0000023	0.000147	0.100	0.103	0.105	0.106	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BC05467	Fluoride	mg/L	-0.0324	0.125	2.50	2.66	2.67	2.56	2.25 to 2.75	102	80.0 to 120	0.375	20.0
BC05469	Iron, Dissolved	mg/L	-0.0004	0.0176	0.2	1.70	1.69	0.203	0.170 to 0.230	100	70.0 to 130	0.590	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.



# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/14/22 14:58  
**Customer ID:**  
**Delivery Date:** 3/15/22 15:31

**Description:** Miller Ash Pond - PZ-5

**Laboratory ID Number:** BC05462

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05077	Iron, Total	mg/L	0.000222	0.0176	0.2	0.240	0.244	0.199	0.170 to 0.230	95.8	70.0 to 130	1.65	20.0
BC05469	Lead, Dissolved	mg/L	0.0000023	0.000147	0.100	0.0970	0.0974	0.0985	0.0850 to 0.115	97.0	70.0 to 130	0.412	20.0
BC05468	Lead, Total	mg/L	0.0000026	0.000147	0.100	0.0975	0.0991	0.0970	0.0850 to 0.115	97.5	70.0 to 130	1.63	20.0
BC05469	Lithium, Dissolved	mg/L	-0.000216	0.0154	0.200	1.07	1.06	0.192	0.170 to 0.230	110	70.0 to 130	0.939	20.0
BC05077	Lithium, Total	mg/L	-0.000184	0.0154	0.200	0.320	0.329	0.210	0.170 to 0.230	95.0	70.0 to 130	2.77	20.0
BC05469	Magnesium, Dissolved	mg/L	-0.00563	0.0462	5.00	51.1	48.7	5.03	4.25 to 5.75	144	70.0 to 130	4.81	20.0
BC05077	Magnesium, Total	mg/L	0.00456	0.0462	5.00	8.98	9.17	5.21	4.25 to 5.75	95.8	70.0 to 130	2.09	20.0
BC05469	Manganese, Dissolved	mg/L	0.0000155	0.0002	0.100	0.190	0.186	0.108	0.0850 to 0.115	99.5	70.0 to 130	2.13	20.0
BC05468	Manganese, Total	mg/L	0.0000129	0.0002	0.100	0.100	0.102	0.104	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC05467	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00401	0.00399	0.00394	0.00340 to 0.00460	100	70.0 to 130	0.500	20.0
BC05469	Molybdenum, Dissolved	mg/L	0.000003	0.0002	0.100	0.103	0.103	0.106	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC05468	Molybdenum, Total	mg/L	0.0000148	0.0002	0.100	0.0993	0.0993	0.101	0.0850 to 0.115	99.3	70.0 to 130	0.00	20.0
BC05469	Potassium, Dissolved	mg/L	0.000346	0.367	10.0	15.7	15.3	10.6	8.50 to 11.5	98.0	70.0 to 130	2.58	20.0
BC05468	Potassium, Total	mg/L	0.00671	0.367	10.0	9.92	10.2	10.3	8.50 to 11.5	99.2	70.0 to 130	2.78	20.0
BC05469	Selenium, Dissolved	mg/L	0.0000469	0.00100	0.100	0.101	0.102	0.109	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC05468	Selenium, Total	mg/L	0.0000954	0.00100	0.100	0.100	0.102	0.103	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC05469	Silicon, Dissolved	mg/L	0.000265	0.0440	1.00	8.84	8.82	1.03	0.850 to 1.15	111	70.0 to 130	0.227	20.0
BC05077	Silicon, Total	mg/L	-0.000225	0.0440	1.00	7.90	7.98	1.01	0.850 to 1.15	83.0	70.0 to 130	1.01	20.0
BC05469	Sodium, Dissolved	mg/L	0.0394	0.0660	5.00	1650	1580	4.97	4.25 to 5.75	1000	70.0 to 130	4.33	20.0
BC05077	Sodium, Total	mg/L	0.0184	0.0660	5.00	354	356	5.19	4.25 to 5.75	-140	70.0 to 130	0.563	20.0
BC05467	Sulfate	mg/L	-0.0466	2.0	200	322	335	19.8	18.0 to 22.0	108	80.0 to 120	3.96	20.0
BC05469	Thallium, Dissolved	mg/L	0.0000016	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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/14/22 14:58  
**Customer ID:**  
**Delivery Date:** 3/15/22 15:31

**Description:** Miller Ash Pond - PZ-5

**Laboratory ID Number:** BC05462

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Limit	Prec	Prec Limit	
BC05468	Thallium, Total	mg/L	0.0000006	0.000147	0.100	0.0977	0.0987	0.0989	0.0850 to 0.115	97.7	70.0 to 130	1.02	20.0
BC05468	Total Organic Carbon	mg/L	0.270	1.00	10.0	9.71	8.96	8.88		97.1	80.0 to 120	8.03	20.0

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**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

## Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/14/22 14:58  
**Customer ID:**  
**Delivery Date:** 3/15/22 15:31

**Description:** Miller Ash Pond - PZ-5

**Laboratory ID Number:** BC05462

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05464	Alkalinity, Total as CaCO3	mg/L					100	48.6	45.0 to 55.0			0.995	10.0
BC05467	Nitrogen, Nitrate/Nitrite	mg/L as N	0.05	0.200	2.00	1.90	0.057	1.82	1.80 to 2.20	95.0	90.0 to 110	0.00	15.0
BC05470	Solids, Dissolved	mg/L	0.0000	25.0			882	51.0	40.0 to 60.0			1.69	10.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-4

**Location Code:** WMWMILAP  
**Collected:** 3/15/22 08:49  
**Customer ID:**  
**Submittal Date:** 3/15/22 15:31

**Laboratory ID Number:** BC05463

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	3/17/22 10:40	3/22/22 11:19		1.015	0.423	mg/L	0.030000	0.1015	
* Calcium, Total	3/17/22 10:40	3/22/22 12:43		10.15	159	mg/L	0.70035	4.06	
* Iron, Total	3/17/22 10:40	3/22/22 11:19		1.015	0.135	mg/L	0.008120	0.0406	
* Lithium, Total	3/17/22 10:40	3/22/22 11:19		1.015	0.0575	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/17/22 10:40	3/22/22 11:19		1.015	32.2	mg/L	0.021315	0.406	
Silica, Total (calc.)	3/17/22 10:40	3/22/22 11:19		1	12.2	mg/L			
Silicon, Total	3/17/22 10:40	3/22/22 11:19		1.015	5.72	mg/L	0.02030	0.25375	
* Sodium, Total	3/17/22 10:40	3/22/22 11:19		1.015	31.2	mg/L	0.03045	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	3/17/22 14:16	3/23/22 10:51		1.015	0.429	mg/L	0.030000	0.1015	
* Calcium, Dissolved	3/17/22 14:16	3/23/22 12:24		10.15	177	mg/L	0.70035	4.06	
* Iron, Dissolved	3/17/22 14:16	3/23/22 10:51		1.015	0.120	mg/L	0.008120	0.0406	
* Lithium, Dissolved	3/17/22 14:16	3/23/22 10:51		1.015	0.0553	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	3/17/22 14:16	3/23/22 10:51		1.015	31.2	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	3/17/22 14:16	3/23/22 10:51		1	12.3	mg/L			
Silicon, Dissolved	3/17/22 14:16	3/23/22 10:51		1.015	5.76	mg/L	0.02030	0.25375	
* Sodium, Dissolved	3/17/22 14:16	3/23/22 10:51		1.015	30.8	mg/L	0.03045	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	3/16/22 11:29	3/17/22 19:50		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/16/22 11:29	3/17/22 19:50		1.015	0.00980	mg/L	0.006090	0.01015	J
* Arsenic, Total	3/16/22 11:29	3/17/22 19:50		1.015	0.000199	mg/L	0.000081	0.000203	J
* Barium, Total	3/16/22 11:29	3/17/22 19:50		1.015	0.0137	mg/L	0.000102	0.000203	
* Beryllium, Total	3/16/22 11:29	3/17/22 19:50		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/16/22 11:29	3/17/22 19:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/16/22 11:29	3/17/22 19:50		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	3/16/22 11:29	3/17/22 19:50		1.015	0.00390	mg/L	0.000068	0.000203	
* Lead, Total	3/16/22 11:29	3/17/22 19:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/16/22 11:29	3/21/22 11:40		5.075	2.54	mg/L	0.000761	0.001015	
* Molybdenum, Total	3/16/22 11:29	3/17/22 19:50		1.015	0.000110	mg/L	0.000102	0.000203	J
* Potassium, Total	3/16/22 11:29	3/17/22 19:50		1.015	7.92	mg/L	0.169505	0.5075	

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-4

**Location Code:** WMWMILAP  
**Collected:** 3/15/22 08:49  
**Customer ID:**  
**Submittal Date:** 3/15/22 15:31

**Laboratory ID Number:** BC05463

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/16/22 11:29	3/17/22 19:50		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/16/22 11:29	3/17/22 19:50		1.015	0.0000705	mg/L	0.000068	0.000203	J
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: ABB</b>							
* Antimony, Dissolved	3/16/22 13:41	3/17/22 17:44		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/16/22 13:41	3/17/22 17:44		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/16/22 13:41	3/17/22 17:44		1.015	0.000139	mg/L	0.000081	0.000203	J
* Barium, Dissolved	3/16/22 13:41	3/17/22 17:44		1.015	0.0135	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/16/22 13:41	3/17/22 17:44		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/16/22 13:41	3/17/22 17:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/16/22 13:41	3/17/22 17:44		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	3/16/22 13:41	3/17/22 17:44		1.015	0.00404	mg/L	0.000068	0.000203	
* Lead, Dissolved	3/16/22 13:41	3/17/22 17:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/16/22 13:41	3/21/22 10:56		5.075	2.54	mg/L	0.000761	0.001015	
* Molybdenum, Dissolved	3/16/22 13:41	3/17/22 17:44		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	3/16/22 13:41	3/17/22 17:44		1.015	8.07	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/16/22 13:41	3/17/22 17:44		1.015	0.00232	mg/L	0.000508	0.001015	
* Thallium, Dissolved	3/16/22 13:41	3/17/22 17:44		1.015	0.0000723	mg/L	0.000068	0.000203	J
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	3/18/22 17:13	3/18/22 21:30		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	3/17/22 13:40	3/17/22 13:40		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity, Total as CaCO3	3/22/22 13:50	3/22/22 16:06		1	97.9	mg/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	3/16/22 11:00	3/17/22 13:20		1	800	mg/L		50	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
Bicarbonate Alkalinity, (calc.)	3/22/22 13:50	3/22/22 16:06		1	97.2	mg/L			A
Carbonate Alkalinity, (calc.)	3/22/22 13:50	3/22/22 16:06		1	0.63	mg/L			A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/18/22 11:12	3/18/22 11:12		1	1.47	mg/L	1.00	2	J

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-4

**Location Code:** WMWMILAP  
**Collected:** 3/15/22 08:49  
**Customer ID:**  
**Submittal Date:** 3/15/22 15:31

**Laboratory ID Number:** BC05463

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/21/22 10:10	3/21/22 10:10		1	19.0	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 09:57	3/22/22 09:57		1	0.154	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/24/22 09:56	3/24/22 09:56		25	475	mg/L	15.0	50	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	3/15/22 08:46	3/15/22 08:46			1065.32	uS/cm			FA
pH	3/15/22 08:46	3/15/22 08:46			6.27	SU			FA
Temperature	3/15/22 08:46	3/15/22 08:46			18.36	C			FA
Turbidity	3/15/22 08:46	3/15/22 08:46			0.57	NTU			FA

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/15/22 08:49  
**Customer ID:**  
**Delivery Date:** 3/15/22 15:31

**Description:** Miller Ash Pond - MW-4

**Laboratory ID Number:** BC05463

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC05469	Aluminum, Dissolved	mg/L	-0.000880	0.010	0.100	0.108	0.104	0.105	0.0850 to 0.115	108	70.0 to 130	3.77	20.0
BC05468	Aluminum, Total	mg/L	-0.000449	0.010	0.100	0.0998	0.102	0.102	0.0850 to 0.115	99.8	70.0 to 130	2.18	20.0
BC05469	Antimony, Dissolved	mg/L	0.000396	0.00100	0.100	0.104	0.103	0.0981	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC05468	Antimony, Total	mg/L	0.000280	0.00100	0.100	0.0921	0.0954	0.0956	0.0850 to 0.115	92.1	70.0 to 130	3.52	20.0
BC05469	Arsenic, Dissolved	mg/L	-0.0000073	0.000176	0.100	0.104	0.101	0.103	0.0850 to 0.115	104	70.0 to 130	2.93	20.0
BC05468	Arsenic, Total	mg/L	-0.0000172	0.000176	0.100	0.0986	0.0995	0.100	0.0850 to 0.115	98.6	70.0 to 130	0.909	20.0
BC05469	Barium, Dissolved	mg/L	0.0000154	0.000200	0.100	11.6	11.7	0.102	0.0850 to 0.115	-200	70.0 to 130	0.858	20.0
BC05468	Barium, Total	mg/L	-0.0000211	0.000200	0.100	0.0983	0.0988	0.102	0.0850 to 0.115	98.3	70.0 to 130	0.507	20.0
BC05469	Beryllium, Dissolved	mg/L	0.0000186	0.000880	0.100	0.111	0.110	0.0997	0.0850 to 0.115	111	70.0 to 130	0.905	20.0
BC05468	Beryllium, Total	mg/L	0.0000224	0.000880	0.100	0.0930	0.0937	0.0983	0.0850 to 0.115	93.0	70.0 to 130	0.750	20.0
BC05469	Boron, Dissolved	mg/L	0.0000007	0.0650	1.00	1.79	1.78	1.01	0.850 to 1.15	106	70.0 to 130	0.560	20.0
BC05077	Boron, Total	mg/L	0.000034	0.0650	1.00	1.09	1.11	0.978	0.850 to 1.15	98.3	70.0 to 130	1.82	20.0
BC05469	Cadmium, Dissolved	mg/L	0.000000	0.000147	0.100	0.0985	0.0989	0.103	0.0850 to 0.115	98.5	70.0 to 130	0.405	20.0
BC05468	Cadmium, Total	mg/L	0.000000	0.000147	0.100	0.0978	0.101	0.102	0.0850 to 0.115	97.8	70.0 to 130	3.22	20.0
BC05469	Calcium, Dissolved	mg/L	-0.0138	0.152	5.00	136	130	4.94	4.25 to 5.75	200	70.0 to 130	4.51	20.0
BC05077	Calcium, Total	mg/L	-0.0138	0.152	5.00	17.9	17.9	4.61	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BC05468	Chloride	mg/L	0.0399	1.00	10.0	10.1	10.2	10.1	9.00 to 11.0	101	80.0 to 120	0.985	20.0
BC05469	Chromium, Dissolved	mg/L	-0.0000686	0.000440	0.100	0.102	0.0977	0.106	0.0850 to 0.115	102	70.0 to 130	4.31	20.0
BC05468	Chromium, Total	mg/L	-0.0000549	0.000440	0.100	0.0996	0.101	0.103	0.0850 to 0.115	99.6	70.0 to 130	1.40	20.0
BC05469	Cobalt, Dissolved	mg/L	-0.0000022	0.000147	0.100	0.102	0.0995	0.111	0.0850 to 0.115	102	70.0 to 130	2.48	20.0
BC05468	Cobalt, Total	mg/L	-0.0000023	0.000147	0.100	0.103	0.105	0.106	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BC05467	Fluoride	mg/L	-0.0324	0.125	2.50	2.66	2.67	2.56	2.25 to 2.75	102	80.0 to 120	0.375	20.0
BC05469	Iron, Dissolved	mg/L	-0.0004	0.0176	0.2	1.70	1.69	0.203	0.170 to 0.230	100	70.0 to 130	0.590	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/15/22 08:49  
**Customer ID:**  
**Delivery Date:** 3/15/22 15:31

**Description:** Miller Ash Pond - MW-4

**Laboratory ID Number:** BC05463

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05077	Iron, Total	mg/L	0.000222	0.0176	0.2	0.240	0.244	0.199	0.170 to 0.230	95.8	70.0 to 130	1.65	20.0
BC05469	Lead, Dissolved	mg/L	0.0000023	0.000147	0.100	0.0970	0.0974	0.0985	0.0850 to 0.115	97.0	70.0 to 130	0.412	20.0
BC05468	Lead, Total	mg/L	0.0000026	0.000147	0.100	0.0975	0.0991	0.0970	0.0850 to 0.115	97.5	70.0 to 130	1.63	20.0
BC05469	Lithium, Dissolved	mg/L	-0.000216	0.0154	0.200	1.07	1.06	0.192	0.170 to 0.230	110	70.0 to 130	0.939	20.0
BC05077	Lithium, Total	mg/L	-0.000184	0.0154	0.200	0.320	0.329	0.210	0.170 to 0.230	95.0	70.0 to 130	2.77	20.0
BC05469	Magnesium, Dissolved	mg/L	-0.00563	0.0462	5.00	51.1	48.7	5.03	4.25 to 5.75	144	70.0 to 130	4.81	20.0
BC05077	Magnesium, Total	mg/L	0.00456	0.0462	5.00	8.98	9.17	5.21	4.25 to 5.75	95.8	70.0 to 130	2.09	20.0
BC05469	Manganese, Dissolved	mg/L	0.0000155	0.0002	0.100	0.190	0.186	0.108	0.0850 to 0.115	99.5	70.0 to 130	2.13	20.0
BC05468	Manganese, Total	mg/L	0.0000129	0.0002	0.100	0.100	0.102	0.104	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC05467	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00401	0.00399	0.00394	0.00340 to 0.00460	100	70.0 to 130	0.500	20.0
BC05469	Molybdenum, Dissolved	mg/L	0.000003	0.0002	0.100	0.103	0.103	0.106	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC05468	Molybdenum, Total	mg/L	0.0000148	0.0002	0.100	0.0993	0.0993	0.101	0.0850 to 0.115	99.3	70.0 to 130	0.00	20.0
BC05469	Potassium, Dissolved	mg/L	0.000346	0.367	10.0	15.7	15.3	10.6	8.50 to 11.5	98.0	70.0 to 130	2.58	20.0
BC05468	Potassium, Total	mg/L	0.00671	0.367	10.0	9.92	10.2	10.3	8.50 to 11.5	99.2	70.0 to 130	2.78	20.0
BC05469	Selenium, Dissolved	mg/L	0.0000469	0.00100	0.100	0.101	0.102	0.109	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC05468	Selenium, Total	mg/L	0.0000954	0.00100	0.100	0.100	0.102	0.103	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC05469	Silicon, Dissolved	mg/L	0.000265	0.0440	1.00	8.84	8.82	1.03	0.850 to 1.15	111	70.0 to 130	0.227	20.0
BC05077	Silicon, Total	mg/L	-0.000225	0.0440	1.00	7.90	7.98	1.01	0.850 to 1.15	83.0	70.0 to 130	1.01	20.0
BC05469	Sodium, Dissolved	mg/L	0.0394	0.0660	5.00	1650	1580	4.97	4.25 to 5.75	1000	70.0 to 130	4.33	20.0
BC05077	Sodium, Total	mg/L	0.0184	0.0660	5.00	354	356	5.19	4.25 to 5.75	-140	70.0 to 130	0.563	20.0
BC05467	Sulfate	mg/L	-0.0466	2.0	200	322	335	19.8	18.0 to 22.0	108	80.0 to 120	3.96	20.0
BC05469	Thallium, Dissolved	mg/L	0.0000016	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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.



# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/15/22 08:49  
**Customer ID:**  
**Delivery Date:** 3/15/22 15:31

**Description:** Miller Ash Pond - MW-4

**Laboratory ID Number:** BC05463

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05468	Thallium, Total	mg/L	0.0000006	0.000147	0.100	0.0977	0.0987	0.0989	0.0850 to 0.115	97.7	70.0 to 130	1.02	20.0
BC05468	Total Organic Carbon	mg/L	0.270	1.00	10.0	9.71	8.96	8.88		97.1	80.0 to 120	8.03	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

## Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/15/22 08:49  
**Customer ID:**  
**Delivery Date:** 3/15/22 15:31

**Description:** Miller Ash Pond - MW-4

**Laboratory ID Number:** BC05463

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05464	Alkalinity, Total as CaCO3	mg/L					100	48.6	45.0 to 55.0			0.995	10.0
BC05467	Nitrogen, Nitrate/Nitrite	mg/L as N	0.05	0.200	2.00	1.90	0.057	1.82	1.80 to 2.20	95.0	90.0 to 110	0.00	15.0
BC05470	Solids, Dissolved	mg/L	0.0000	25.0			882	51.0	40.0 to 60.0			1.69	10.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-4V

**Location Code:** WMWMILAP  
**Collected:** 3/15/22 09:38  
**Customer ID:**  
**Submittal Date:** 3/15/22 15:31

**Laboratory ID Number:** BC05464

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	3/17/22 10:40	3/22/22 11:20		1.015	0.642	mg/L	0.030000	0.1015	
* Calcium, Total	3/17/22 10:40	3/22/22 12:45		10.15	226	mg/L	0.70035	4.06	
* Iron, Total	3/17/22 10:40	3/22/22 11:20		1.015	2.18	mg/L	0.008120	0.0406	
* Lithium, Total	3/17/22 10:40	3/22/22 11:20		1.015	0.120	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/17/22 10:40	3/22/22 12:45		10.15	43.6	mg/L	0.21315	4.06	
Silica, Total (calc.)	3/17/22 10:40	3/22/22 11:20		1	11.2	mg/L			
Silicon, Total	3/17/22 10:40	3/22/22 11:20		1.015	5.22	mg/L	0.02030	0.25375	
* Sodium, Total	3/17/22 10:40	3/22/22 12:45		10.15	47.7	mg/L	0.3045	4.06	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	3/17/22 14:16	3/23/22 10:53		1.015	0.660	mg/L	0.030000	0.1015	
* Calcium, Dissolved	3/17/22 14:16	3/23/22 12:25		10.15	251	mg/L	0.70035	4.06	
* Iron, Dissolved	3/17/22 14:16	3/23/22 10:53		1.015	2.23	mg/L	0.008120	0.0406	
* Lithium, Dissolved	3/17/22 14:16	3/23/22 10:53		1.015	0.110	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	3/17/22 14:16	3/23/22 12:25		10.15	45.4	mg/L	0.21315	4.06	
Silica, Dissolved (calc.)	3/17/22 14:16	3/23/22 10:53		1	11.4	mg/L			
Silicon, Dissolved	3/17/22 14:16	3/23/22 10:53		1.015	5.34	mg/L	0.02030	0.25375	
* Sodium, Dissolved	3/17/22 14:16	3/23/22 12:25		10.15	51.4	mg/L	0.3045	4.06	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	3/16/22 11:29	3/17/22 19:54		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/16/22 11:29	3/17/22 19:54		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	3/16/22 11:29	3/17/22 19:54		1.015	0.00165	mg/L	0.000081	0.000203	
* Barium, Total	3/16/22 11:29	3/17/22 19:54		1.015	0.0183	mg/L	0.000102	0.000203	
* Beryllium, Total	3/16/22 11:29	3/17/22 19:54		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/16/22 11:29	3/17/22 19:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/16/22 11:29	3/17/22 19:54		1.015	0.000322	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/16/22 11:29	3/17/22 19:54		1.015	0.0130	mg/L	0.000068	0.000203	
* Lead, Total	3/16/22 11:29	3/17/22 19:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/16/22 11:29	3/21/22 11:44		5.075	2.57	mg/L	0.000761	0.001015	
* Molybdenum, Total	3/16/22 11:29	3/17/22 19:54		1.015	0.00749	mg/L	0.000102	0.000203	
* Potassium, Total	3/16/22 11:29	3/17/22 19:54		1.015	8.13	mg/L	0.169505	0.5075	

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-4V

**Location Code:** WMWMILAP  
**Collected:** 3/15/22 09:38  
**Customer ID:**  
**Submittal Date:** 3/15/22 15:31

**Laboratory ID Number:** BC05464

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/16/22 11:29	3/17/22 19:54		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/16/22 11:29	3/17/22 19:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: ABB</b>							
* Antimony, Dissolved	3/16/22 13:41	3/17/22 17:47		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/16/22 13:41	3/17/22 17:47		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/16/22 13:41	3/17/22 17:47		1.015	0.00157	mg/L	0.000081	0.000203	
* Barium, Dissolved	3/16/22 13:41	3/17/22 17:47		1.015	0.0181	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/16/22 13:41	3/17/22 17:47		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/16/22 13:41	3/17/22 17:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/16/22 13:41	3/17/22 17:47		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	3/16/22 13:41	3/17/22 17:47		1.015	0.0133	mg/L	0.000068	0.000203	
* Lead, Dissolved	3/16/22 13:41	3/17/22 17:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/16/22 13:41	3/21/22 11:00		5.075	2.50	mg/L	0.000761	0.001015	
* Molybdenum, Dissolved	3/16/22 13:41	3/17/22 17:47		1.015	0.00791	mg/L	0.000102	0.000203	
* Potassium, Dissolved	3/16/22 13:41	3/17/22 17:47		1.015	8.06	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/16/22 13:41	3/17/22 17:47		1.015	0.00120	mg/L	0.000508	0.001015	
* Thallium, Dissolved	3/16/22 13:41	3/17/22 17:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	3/18/22 17:13	3/18/22 21:34		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	3/17/22 13:41	3/17/22 13:41		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity, Total as CaCO3	3/22/22 13:50	3/22/22 16:06		1	101	mg/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	3/16/22 11:00	3/17/22 13:20		1	1070	mg/L		75.8	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
Bicarbonate Alkalinity, (calc.)	3/22/22 13:50	3/22/22 16:06		1	100	mg/L			A
Carbonate Alkalinity, (calc.)	3/22/22 13:50	3/22/22 16:06		1	0.64	mg/L			A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/18/22 11:30	3/18/22 11:30		1	1.36	mg/L	1.00	2	J

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-4V

**Location Code:** WMWMILAP  
**Collected:** 3/15/22 09:38  
**Customer ID:**  
**Submittal Date:** 3/15/22 15:31

**Laboratory ID Number:** BC05464

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/21/22 10:12	3/21/22 10:12		2	23.7	mg/L	1.00	2	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 09:58	3/22/22 09:58		1	0.244	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/24/22 09:57	3/24/22 09:57		32	702	mg/L	19.2	64	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	3/15/22 09:35	3/15/22 09:35			1384.38	uS/cm			FA
pH	3/15/22 09:35	3/15/22 09:35			6.68	SU			FA
Temperature	3/15/22 09:35	3/15/22 09:35			17.96	C			FA
Turbidity	3/15/22 09:35	3/15/22 09:35			0.31	NTU			FA

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

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**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/15/22 09:38  
**Customer ID:**  
**Delivery Date:** 3/15/22 15:31

**Description:** Miller Ash Pond - MW-4V

**Laboratory ID Number:** BC05464

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05469	Aluminum, Dissolved	mg/L	-0.000880	0.010	0.100	0.108	0.104	0.105	0.0850 to 0.115	108	70.0 to 130	3.77	20.0
BC05468	Aluminum, Total	mg/L	-0.000449	0.010	0.100	0.0998	0.102	0.102	0.0850 to 0.115	99.8	70.0 to 130	2.18	20.0
BC05469	Antimony, Dissolved	mg/L	0.000396	0.00100	0.100	0.104	0.103	0.0981	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC05468	Antimony, Total	mg/L	0.000280	0.00100	0.100	0.0921	0.0954	0.0956	0.0850 to 0.115	92.1	70.0 to 130	3.52	20.0
BC05469	Arsenic, Dissolved	mg/L	-0.000073	0.000176	0.100	0.104	0.101	0.103	0.0850 to 0.115	104	70.0 to 130	2.93	20.0
BC05468	Arsenic, Total	mg/L	-0.0000172	0.000176	0.100	0.0986	0.0995	0.100	0.0850 to 0.115	98.6	70.0 to 130	0.909	20.0
BC05469	Barium, Dissolved	mg/L	0.0000154	0.000200	0.100	11.6	11.7	0.102	0.0850 to 0.115	-200	70.0 to 130	0.858	20.0
BC05468	Barium, Total	mg/L	-0.0000211	0.000200	0.100	0.0983	0.0988	0.102	0.0850 to 0.115	98.3	70.0 to 130	0.507	20.0
BC05469	Beryllium, Dissolved	mg/L	0.0000186	0.000880	0.100	0.111	0.110	0.0997	0.0850 to 0.115	111	70.0 to 130	0.905	20.0
BC05468	Beryllium, Total	mg/L	0.0000224	0.000880	0.100	0.0930	0.0937	0.0983	0.0850 to 0.115	93.0	70.0 to 130	0.750	20.0
BC05469	Boron, Dissolved	mg/L	0.000007	0.0650	1.00	1.79	1.78	1.01	0.850 to 1.15	106	70.0 to 130	0.560	20.0
BC05077	Boron, Total	mg/L	0.000034	0.0650	1.00	1.09	1.11	0.978	0.850 to 1.15	98.3	70.0 to 130	1.82	20.0
BC05469	Cadmium, Dissolved	mg/L	0.00000	0.000147	0.100	0.0985	0.0989	0.103	0.0850 to 0.115	98.5	70.0 to 130	0.405	20.0
BC05468	Cadmium, Total	mg/L	0.00000	0.000147	0.100	0.0978	0.101	0.102	0.0850 to 0.115	97.8	70.0 to 130	3.22	20.0
BC05469	Calcium, Dissolved	mg/L	-0.0138	0.152	5.00	136	130	4.94	4.25 to 5.75	200	70.0 to 130	4.51	20.0
BC05077	Calcium, Total	mg/L	-0.0138	0.152	5.00	17.9	17.9	4.61	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BC05468	Chloride	mg/L	0.0399	1.00	10.0	10.1	10.2	10.1	9.00 to 11.0	101	80.0 to 120	0.985	20.0
BC05469	Chromium, Dissolved	mg/L	-0.0000686	0.000440	0.100	0.102	0.0977	0.106	0.0850 to 0.115	102	70.0 to 130	4.31	20.0
BC05468	Chromium, Total	mg/L	-0.0000549	0.000440	0.100	0.0996	0.101	0.103	0.0850 to 0.115	99.6	70.0 to 130	1.40	20.0
BC05469	Cobalt, Dissolved	mg/L	-0.0000022	0.000147	0.100	0.102	0.0995	0.111	0.0850 to 0.115	102	70.0 to 130	2.48	20.0
BC05468	Cobalt, Total	mg/L	-0.0000023	0.000147	0.100	0.103	0.105	0.106	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BC05467	Fluoride	mg/L	-0.0324	0.125	2.50	2.66	2.67	2.56	2.25 to 2.75	102	80.0 to 120	0.375	20.0
BC05469	Iron, Dissolved	mg/L	-0.0004	0.0176	0.2	1.70	1.69	0.203	0.170 to 0.230	100	70.0 to 130	0.590	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/15/22 09:38  
**Customer ID:**  
**Delivery Date:** 3/15/22 15:31

**Description:** Miller Ash Pond - MW-4V

**Laboratory ID Number:** BC05464

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05077	Iron, Total	mg/L	0.000222	0.0176	0.2	0.240	0.244	0.199	0.170 to 0.230	95.8	70.0 to 130	1.65	20.0
BC05469	Lead, Dissolved	mg/L	0.0000023	0.000147	0.100	0.0970	0.0974	0.0985	0.0850 to 0.115	97.0	70.0 to 130	0.412	20.0
BC05468	Lead, Total	mg/L	0.0000026	0.000147	0.100	0.0975	0.0991	0.0970	0.0850 to 0.115	97.5	70.0 to 130	1.63	20.0
BC05469	Lithium, Dissolved	mg/L	-0.000216	0.0154	0.200	1.07	1.06	0.192	0.170 to 0.230	110	70.0 to 130	0.939	20.0
BC05077	Lithium, Total	mg/L	-0.000184	0.0154	0.200	0.320	0.329	0.210	0.170 to 0.230	95.0	70.0 to 130	2.77	20.0
BC05469	Magnesium, Dissolved	mg/L	-0.00563	0.0462	5.00	51.1	48.7	5.03	4.25 to 5.75	144	70.0 to 130	4.81	20.0
BC05077	Magnesium, Total	mg/L	0.00456	0.0462	5.00	8.98	9.17	5.21	4.25 to 5.75	95.8	70.0 to 130	2.09	20.0
BC05469	Manganese, Dissolved	mg/L	0.0000155	0.0002	0.100	0.190	0.186	0.108	0.0850 to 0.115	99.5	70.0 to 130	2.13	20.0
BC05468	Manganese, Total	mg/L	0.0000129	0.0002	0.100	0.100	0.102	0.104	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC05467	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00401	0.00399	0.00394	0.00340 to 0.00460	100	70.0 to 130	0.500	20.0
BC05469	Molybdenum, Dissolved	mg/L	0.000003	0.0002	0.100	0.103	0.103	0.106	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC05468	Molybdenum, Total	mg/L	0.0000148	0.0002	0.100	0.0993	0.0993	0.101	0.0850 to 0.115	99.3	70.0 to 130	0.00	20.0
BC05469	Potassium, Dissolved	mg/L	0.000346	0.367	10.0	15.7	15.3	10.6	8.50 to 11.5	98.0	70.0 to 130	2.58	20.0
BC05468	Potassium, Total	mg/L	0.00671	0.367	10.0	9.92	10.2	10.3	8.50 to 11.5	99.2	70.0 to 130	2.78	20.0
BC05469	Selenium, Dissolved	mg/L	0.0000469	0.00100	0.100	0.101	0.102	0.109	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC05468	Selenium, Total	mg/L	0.0000954	0.00100	0.100	0.100	0.102	0.103	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC05469	Silicon, Dissolved	mg/L	0.000265	0.0440	1.00	8.84	8.82	1.03	0.850 to 1.15	111	70.0 to 130	0.227	20.0
BC05077	Silicon, Total	mg/L	-0.000225	0.0440	1.00	7.90	7.98	1.01	0.850 to 1.15	83.0	70.0 to 130	1.01	20.0
BC05469	Sodium, Dissolved	mg/L	0.0394	0.0660	5.00	1650	1580	4.97	4.25 to 5.75	1000	70.0 to 130	4.33	20.0
BC05077	Sodium, Total	mg/L	0.0184	0.0660	5.00	354	356	5.19	4.25 to 5.75	-140	70.0 to 130	0.563	20.0
BC05467	Sulfate	mg/L	-0.0466	2.0	200	322	335	19.8	18.0 to 22.0	108	80.0 to 120	3.96	20.0
BC05469	Thallium, Dissolved	mg/L	0.0000016	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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/15/22 09:38  
**Customer ID:**  
**Delivery Date:** 3/15/22 15:31

**Description:** Miller Ash Pond - MW-4V

**Laboratory ID Number:** BC05464

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05468	Thallium, Total	mg/L	0.0000006	0.000147	0.100	0.0977	0.0987	0.0989	0.0850 to 0.115	97.7	70.0 to 130	1.02	20.0
BC05468	Total Organic Carbon	mg/L	0.270	1.00	10.0	9.71	8.96	8.88		97.1	80.0 to 120	8.03	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.



## Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/15/22 09:38  
**Customer ID:**  
**Delivery Date:** 3/15/22 15:31

**Description:** Miller Ash Pond - MW-4V

**Laboratory ID Number:** BC05464

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec Rec	Rec Limit	Prec	Prec Limit
BC05464	Alkalinity, Total as CaCO3	mg/L					100	48.6	45.0 to 55.0			0.995	10.0
BC05467	Nitrogen, Nitrate/Nitrite	mg/L as N	0.05	0.200	2.00	1.90	0.057	1.82	1.80 to 2.20	95.0	90.0 to 110	0.00	15.0
BC05470	Solids, Dissolved	mg/L	0.0000	25.0			882	51.0	40.0 to 60.0			1.69	10.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-4V DUP

**Location Code:** WMWMILAP  
**Collected:** 3/15/22 09:38  
**Customer ID:**  
**Submittal Date:** 3/15/22 15:31

**Laboratory ID Number:** BC05465

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: RDA</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	3/17/22 10:40	3/22/22 11:22		1.015	0.645	mg/L	0.030000	0.1015	
* Calcium, Total	3/17/22 10:40	3/22/22 12:46		10.15	219	mg/L	0.70035	4.06	
* Iron, Total	3/17/22 10:40	3/22/22 11:22		1.015	2.17	mg/L	0.008120	0.0406	
* Lithium, Total	3/17/22 10:40	3/22/22 11:22		1.015	0.118	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/17/22 10:40	3/22/22 12:46		10.15	41.9	mg/L	0.21315	4.06	
Silica, Total (calc.)	3/17/22 10:40	3/22/22 11:22		1	11.3	mg/L			
Silicon, Total	3/17/22 10:40	3/22/22 11:22		1.015	5.28	mg/L	0.02030	0.25375	
* Sodium, Total	3/17/22 10:40	3/22/22 12:46		10.15	45.2	mg/L	0.3045	4.06	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: RDA</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	3/17/22 14:16	3/23/22 10:55		1.015	0.657	mg/L	0.030000	0.1015	
* Calcium, Dissolved	3/17/22 14:16	3/23/22 12:27		10.15	239	mg/L	0.70035	4.06	
* Iron, Dissolved	3/17/22 14:16	3/23/22 10:55		1.015	2.20	mg/L	0.008120	0.0406	
* Lithium, Dissolved	3/17/22 14:16	3/23/22 10:55		1.015	0.110	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	3/17/22 14:16	3/23/22 10:55		1.015	39.6	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	3/17/22 14:16	3/23/22 10:55		1	11.5	mg/L			
Silicon, Dissolved	3/17/22 14:16	3/23/22 10:55		1.015	5.36	mg/L	0.02030	0.25375	
* Sodium, Dissolved	3/17/22 14:16	3/23/22 12:27		10.15	48.5	mg/L	0.3045	4.06	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	3/16/22 11:29	3/17/22 19:58		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/16/22 11:29	3/17/22 19:58		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	3/16/22 11:29	3/17/22 19:58		1.015	0.00136	mg/L	0.000081	0.000203	
* Barium, Total	3/16/22 11:29	3/17/22 19:58		1.015	0.0179	mg/L	0.000102	0.000203	
* Beryllium, Total	3/16/22 11:29	3/17/22 19:58		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/16/22 11:29	3/17/22 19:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/16/22 11:29	3/17/22 19:58		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	3/16/22 11:29	3/17/22 19:58		1.015	0.0132	mg/L	0.000068	0.000203	
* Lead, Total	3/16/22 11:29	3/17/22 19:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/16/22 11:29	3/21/22 11:47		5.075	2.53	mg/L	0.000761	0.001015	
* Molybdenum, Total	3/16/22 11:29	3/17/22 19:58		1.015	0.00752	mg/L	0.000102	0.000203	
* Potassium, Total	3/16/22 11:29	3/17/22 19:58		1.015	8.10	mg/L	0.169505	0.5075	

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-4V DUP

**Location Code:** WMWMILAP  
**Collected:** 3/15/22 09:38  
**Customer ID:**  
**Submittal Date:** 3/15/22 15:31

**Laboratory ID Number:** BC05465

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/16/22 11:29	3/17/22 19:58		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/16/22 11:29	3/17/22 19:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: ABB</b>							
* Antimony, Dissolved	3/16/22 13:41	3/17/22 17:51		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/16/22 13:41	3/17/22 17:51		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/16/22 13:41	3/17/22 17:51		1.015	0.00164	mg/L	0.000081	0.000203	
* Barium, Dissolved	3/16/22 13:41	3/17/22 17:51		1.015	0.0182	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/16/22 13:41	3/17/22 17:51		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/16/22 13:41	3/17/22 17:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/16/22 13:41	3/17/22 17:51		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	3/16/22 13:41	3/17/22 17:51		1.015	0.0134	mg/L	0.000068	0.000203	
* Lead, Dissolved	3/16/22 13:41	3/17/22 17:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/16/22 13:41	3/21/22 11:04		5.075	2.44	mg/L	0.000761	0.001015	
* Molybdenum, Dissolved	3/16/22 13:41	3/17/22 17:51		1.015	0.00783	mg/L	0.000102	0.000203	
* Potassium, Dissolved	3/16/22 13:41	3/17/22 17:51		1.015	8.07	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/16/22 13:41	3/17/22 17:51		1.015	0.000736	mg/L	0.000508	0.001015	J
* Thallium, Dissolved	3/16/22 13:41	3/17/22 17:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	3/18/22 17:13	3/18/22 21:38		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	3/17/22 13:42	3/17/22 13:42		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity, Total as CaCO3	3/25/22 09:45	3/25/22 12:15		1	106	mg/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	3/16/22 11:00	3/17/22 13:20		1	1100	mg/L		75.8	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
Bicarbonate Alkalinity, (calc.)	3/25/22 09:45	3/25/22 12:15		1	106	mg/L			A
Carbonate Alkalinity, (calc.)	3/25/22 09:45	3/25/22 12:15		1	0.42	mg/L			A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/18/22 11:48	3/18/22 11:48		1	1.23	mg/L	1.00	2	J

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-4V DUP

**Location Code:** WMWMILAP  
**Collected:** 3/15/22 09:38  
**Customer ID:**  
**Submittal Date:** 3/15/22 15:31

**Laboratory ID Number:** BC05465

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/21/22 10:13	3/21/22 10:13		2	23.7	mg/L	1.00	2	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 09:59	3/22/22 09:59		1	0.255	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/24/22 09:58	3/24/22 09:58		32	715	mg/L	19.2	64	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	3/15/22 09:35	3/15/22 09:35			1384.38	uS/cm			FA
pH	3/15/22 09:35	3/15/22 09:35			6.68	SU			FA
Temperature	3/15/22 09:35	3/15/22 09:35			17.96	C			FA
Turbidity	3/15/22 09:35	3/15/22 09:35			0.31	NTU			FA

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/15/22 09:38  
**Customer ID:**  
**Delivery Date:** 3/15/22 15:31

**Description:** Miller Ash Pond - MW-4V DUP

**Laboratory ID Number:** BC05465

Sample	Analysis	Units	MB	MB		MS	MSD	Standard	Standard		Rec		Prec
				Limit	Spike				Limit	Limit	Rec	Limit	
BC05469	Aluminum, Dissolved	mg/L	-0.000880	0.010	0.100	0.108	0.104	0.105	0.0850 to 0.115	108	70.0 to 130	3.77	20.0
BC05468	Aluminum, Total	mg/L	-0.000449	0.010	0.100	0.0998	0.102	0.102	0.0850 to 0.115	99.8	70.0 to 130	2.18	20.0
BC05469	Antimony, Dissolved	mg/L	0.000396	0.00100	0.100	0.104	0.103	0.0981	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC05468	Antimony, Total	mg/L	0.000280	0.00100	0.100	0.0921	0.0954	0.0956	0.0850 to 0.115	92.1	70.0 to 130	3.52	20.0
BC05469	Arsenic, Dissolved	mg/L	-0.000073	0.000176	0.100	0.104	0.101	0.103	0.0850 to 0.115	104	70.0 to 130	2.93	20.0
BC05468	Arsenic, Total	mg/L	-0.0000172	0.000176	0.100	0.0986	0.0995	0.100	0.0850 to 0.115	98.6	70.0 to 130	0.909	20.0
BC05469	Barium, Dissolved	mg/L	0.0000154	0.000200	0.100	11.6	11.7	0.102	0.0850 to 0.115	-200	70.0 to 130	0.858	20.0
BC05468	Barium, Total	mg/L	-0.0000211	0.000200	0.100	0.0983	0.0988	0.102	0.0850 to 0.115	98.3	70.0 to 130	0.507	20.0
BC05469	Beryllium, Dissolved	mg/L	0.0000186	0.000880	0.100	0.111	0.110	0.0997	0.0850 to 0.115	111	70.0 to 130	0.905	20.0
BC05468	Beryllium, Total	mg/L	0.0000224	0.000880	0.100	0.0930	0.0937	0.0983	0.0850 to 0.115	93.0	70.0 to 130	0.750	20.0
BC05469	Boron, Dissolved	mg/L	0.000007	0.0650	1.00	1.79	1.78	1.01	0.850 to 1.15	106	70.0 to 130	0.560	20.0
BC05077	Boron, Total	mg/L	0.000034	0.0650	1.00	1.09	1.11	0.978	0.850 to 1.15	98.3	70.0 to 130	1.82	20.0
BC05469	Cadmium, Dissolved	mg/L	0.00000	0.000147	0.100	0.0985	0.0989	0.103	0.0850 to 0.115	98.5	70.0 to 130	0.405	20.0
BC05468	Cadmium, Total	mg/L	0.00000	0.000147	0.100	0.0978	0.101	0.102	0.0850 to 0.115	97.8	70.0 to 130	3.22	20.0
BC05469	Calcium, Dissolved	mg/L	-0.0138	0.152	5.00	136	130	4.94	4.25 to 5.75	200	70.0 to 130	4.51	20.0
BC05077	Calcium, Total	mg/L	-0.0138	0.152	5.00	17.9	17.9	4.61	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BC05468	Chloride	mg/L	0.0399	1.00	10.0	10.1	10.2	10.1	9.00 to 11.0	101	80.0 to 120	0.985	20.0
BC05469	Chromium, Dissolved	mg/L	-0.0000686	0.000440	0.100	0.102	0.0977	0.106	0.0850 to 0.115	102	70.0 to 130	4.31	20.0
BC05468	Chromium, Total	mg/L	-0.0000549	0.000440	0.100	0.0996	0.101	0.103	0.0850 to 0.115	99.6	70.0 to 130	1.40	20.0
BC05469	Cobalt, Dissolved	mg/L	-0.0000022	0.000147	0.100	0.102	0.0995	0.111	0.0850 to 0.115	102	70.0 to 130	2.48	20.0
BC05468	Cobalt, Total	mg/L	-0.0000023	0.000147	0.100	0.103	0.105	0.106	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BC05467	Fluoride	mg/L	-0.0324	0.125	2.50	2.66	2.67	2.56	2.25 to 2.75	102	80.0 to 120	0.375	20.0
BC05469	Iron, Dissolved	mg/L	-0.0004	0.0176	0.2	1.70	1.69	0.203	0.170 to 0.230	100	70.0 to 130	0.590	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/15/22 09:38  
**Customer ID:**  
**Delivery Date:** 3/15/22 15:31

**Description:** Miller Ash Pond - MW-4V DUP

**Laboratory ID Number:** BC05465

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05077	Iron, Total	mg/L	0.000222	0.0176	0.2	0.240	0.244	0.199	0.170 to 0.230	95.8	70.0 to 130	1.65	20.0
BC05469	Lead, Dissolved	mg/L	0.0000023	0.000147	0.100	0.0970	0.0974	0.0985	0.0850 to 0.115	97.0	70.0 to 130	0.412	20.0
BC05468	Lead, Total	mg/L	0.0000026	0.000147	0.100	0.0975	0.0991	0.0970	0.0850 to 0.115	97.5	70.0 to 130	1.63	20.0
BC05469	Lithium, Dissolved	mg/L	-0.000216	0.0154	0.200	1.07	1.06	0.192	0.170 to 0.230	110	70.0 to 130	0.939	20.0
BC05077	Lithium, Total	mg/L	-0.000184	0.0154	0.200	0.320	0.329	0.210	0.170 to 0.230	95.0	70.0 to 130	2.77	20.0
BC05469	Magnesium, Dissolved	mg/L	-0.00563	0.0462	5.00	51.1	48.7	5.03	4.25 to 5.75	144	70.0 to 130	4.81	20.0
BC05077	Magnesium, Total	mg/L	0.00456	0.0462	5.00	8.98	9.17	5.21	4.25 to 5.75	95.8	70.0 to 130	2.09	20.0
BC05469	Manganese, Dissolved	mg/L	0.0000155	0.0002	0.100	0.190	0.186	0.108	0.0850 to 0.115	99.5	70.0 to 130	2.13	20.0
BC05468	Manganese, Total	mg/L	0.0000129	0.0002	0.100	0.100	0.102	0.104	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC05467	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00401	0.00399	0.00394	0.00340 to 0.00460	100	70.0 to 130	0.500	20.0
BC05469	Molybdenum, Dissolved	mg/L	0.000003	0.0002	0.100	0.103	0.103	0.106	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC05468	Molybdenum, Total	mg/L	0.0000148	0.0002	0.100	0.0993	0.0993	0.101	0.0850 to 0.115	99.3	70.0 to 130	0.00	20.0
BC05469	Potassium, Dissolved	mg/L	0.000346	0.367	10.0	15.7	15.3	10.6	8.50 to 11.5	98.0	70.0 to 130	2.58	20.0
BC05468	Potassium, Total	mg/L	0.00671	0.367	10.0	9.92	10.2	10.3	8.50 to 11.5	99.2	70.0 to 130	2.78	20.0
BC05469	Selenium, Dissolved	mg/L	0.0000469	0.00100	0.100	0.101	0.102	0.109	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC05468	Selenium, Total	mg/L	0.0000954	0.00100	0.100	0.100	0.102	0.103	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC05469	Silicon, Dissolved	mg/L	0.000265	0.0440	1.00	8.84	8.82	1.03	0.850 to 1.15	111	70.0 to 130	0.227	20.0
BC05077	Silicon, Total	mg/L	-0.000225	0.0440	1.00	7.90	7.98	1.01	0.850 to 1.15	83.0	70.0 to 130	1.01	20.0
BC05469	Sodium, Dissolved	mg/L	0.0394	0.0660	5.00	1650	1580	4.97	4.25 to 5.75	1000	70.0 to 130	4.33	20.0
BC05077	Sodium, Total	mg/L	0.0184	0.0660	5.00	354	356	5.19	4.25 to 5.75	-140	70.0 to 130	0.563	20.0
BC05467	Sulfate	mg/L	-0.0466	2.0	200	322	335	19.8	18.0 to 22.0	108	80.0 to 120	3.96	20.0
BC05469	Thallium, Dissolved	mg/L	0.0000016	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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/15/22 09:38  
**Customer ID:**  
**Delivery Date:** 3/15/22 15:31

**Description:** Miller Ash Pond - MW-4V DUP

**Laboratory ID Number:** BC05465

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05468	Thallium, Total	mg/L	0.0000006	0.000147	0.100	0.0977	0.0987	0.0989	0.0850 to 0.115	97.7	70.0 to 130	1.02	20.0
BC05468	Total Organic Carbon	mg/L	0.270	1.00	10.0	9.71	8.96	8.88		97.1	80.0 to 120	8.03	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

## Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/15/22 09:38  
**Customer ID:**  
**Delivery Date:** 3/15/22 15:31

**Description:** Miller Ash Pond - MW-4V DUP

**Laboratory ID Number:** BC05465

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05681	Alkalinity, Total as CaCO3	mg/L					23.8	51.1	45.0 to 55.0			1.67	10.0
BC05467	Nitrogen, Nitrate/Nitrite	mg/L as N	0.05	0.200	2.00	1.90	0.057	1.82	1.80 to 2.20	95.0	90.0 to 110	0.00	15.0
BC05470	Solids, Dissolved	mg/L	0.0000	25.0			882	51.0	40.0 to 60.0			1.69	10.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.



# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-27HR

**Location Code:** WMWMILAP  
**Collected:** 3/14/22 12:18  
**Customer ID:**  
**Submittal Date:** 3/15/22 15:31

**Laboratory ID Number:** BC05466

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: RDA</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	3/17/22 10:40	3/22/22 11:24		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	3/17/22 10:40	3/22/22 12:48		10.15	44.5	mg/L	0.70035	4.06	
* Iron, Total	3/17/22 10:40	3/22/22 11:24		1.015	0.698	mg/L	0.008120	0.0406	
* Lithium, Total	3/17/22 10:40	3/22/22 11:24		1.015	0.0415	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/17/22 10:40	3/22/22 11:24		1.015	15.6	mg/L	0.021315	0.406	
Silica, Total (calc.)	3/17/22 10:40	3/22/22 11:24		1	29.5	mg/L			
Silicon, Total	3/17/22 10:40	3/22/22 11:24		1.015	13.8	mg/L	0.02030	0.25375	
* Sodium, Total	3/17/22 10:40	3/22/22 12:48		10.15	38.3	mg/L	0.3045	4.06	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: RDA</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	3/17/22 14:16	3/23/22 10:57		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	3/17/22 14:16	3/23/22 12:29		10.15	47.2	mg/L	0.70035	4.06	
* Iron, Dissolved	3/17/22 14:16	3/23/22 10:57		1.015	0.450	mg/L	0.008120	0.0406	
* Lithium, Dissolved	3/17/22 14:16	3/23/22 10:57		1.015	0.0385	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	3/17/22 14:16	3/23/22 10:57		1.015	15.1	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	3/17/22 14:16	3/23/22 10:57		1	30.2	mg/L			
Silicon, Dissolved	3/17/22 14:16	3/23/22 10:57		1.015	14.1	mg/L	0.02030	0.25375	
* Sodium, Dissolved	3/17/22 14:16	3/23/22 10:57		1.015	39.1	mg/L	0.03045	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	3/16/22 11:29	3/17/22 20:01		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/16/22 11:29	3/17/22 20:01		1.015	0.0242	mg/L	0.006090	0.01015	
* Arsenic, Total	3/16/22 11:29	3/17/22 20:01		1.015	0.000265	mg/L	0.000081	0.000203	
* Barium, Total	3/16/22 11:29	3/17/22 20:01		1.015	0.0875	mg/L	0.000102	0.000203	
* Beryllium, Total	3/16/22 11:29	3/17/22 20:01		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/16/22 11:29	3/17/22 20:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/16/22 11:29	3/17/22 20:01		1.015	0.000357	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/16/22 11:29	3/17/22 20:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	3/16/22 11:29	3/17/22 20:01		1.015	0.000101	mg/L	0.000068	0.000203	J
* Manganese, Total	3/16/22 11:29	3/17/22 20:01		1.015	0.0242	mg/L	0.000152	0.000203	
* Molybdenum, Total	3/16/22 11:29	3/17/22 20:01		1.015	0.000701	mg/L	0.000102	0.000203	
* Potassium, Total	3/16/22 11:29	3/17/22 20:01		1.015	2.23	mg/L	0.169505	0.5075	

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-27HR

**Location Code:** WMWMILAP  
**Collected:** 3/14/22 12:18  
**Customer ID:**  
**Submittal Date:** 3/15/22 15:31

**Laboratory ID Number:** BC05466

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/16/22 11:29	3/17/22 20:01		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/16/22 11:29	3/17/22 20:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: ABB</b>							
* Antimony, Dissolved	3/16/22 13:41	3/17/22 17:54		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/16/22 13:41	3/17/22 17:54		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/16/22 13:41	3/17/22 17:54		1.015	0.000210	mg/L	0.000081	0.000203	
* Barium, Dissolved	3/16/22 13:41	3/17/22 17:54		1.015	0.0854	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/16/22 13:41	3/17/22 17:54		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/16/22 13:41	3/17/22 17:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/16/22 13:41	3/17/22 17:54		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	3/16/22 13:41	3/17/22 17:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	3/16/22 13:41	3/17/22 17:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/16/22 13:41	3/17/22 17:54		1.015	0.0241	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/16/22 13:41	3/17/22 17:54		1.015	0.000666	mg/L	0.000102	0.000203	
* Potassium, Dissolved	3/16/22 13:41	3/17/22 17:54		1.015	2.25	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/16/22 13:41	3/17/22 17:54		1.015	0.000529	mg/L	0.000508	0.001015	J
* Thallium, Dissolved	3/16/22 13:41	3/17/22 17:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	3/18/22 17:13	3/18/22 21:42		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	3/17/22 13:43	3/17/22 13:43		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity, Total as CaCO3	3/25/22 09:45	3/25/22 12:15		1	184	mg/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	3/16/22 11:00	3/17/22 13:20		1	314	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
Bicarbonate Alkalinity, (calc.)	3/25/22 09:45	3/25/22 12:15		1	183	mg/L			
Carbonate Alkalinity, (calc.)	3/25/22 09:45	3/25/22 12:15		1	1.22	mg/L			
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/18/22 12:08	3/18/22 12:08		1	Not Detected	mg/L	1.00	2	U

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-27HR

**Location Code:** WMWMILAP  
**Collected:** 3/14/22 12:18  
**Customer ID:**  
**Submittal Date:** 3/15/22 15:31

**Laboratory ID Number:** BC05466

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/21/22 10:15	3/21/22 10:15		1	15.5	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 10:00	3/22/22 10:00		1	0.116	mg/L	0.06	0.125	J
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/24/22 10:00	3/24/22 10:00		2	65.4	mg/L	1.2	4	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	3/14/22 12:15	3/14/22 12:15			496.36	uS/cm			FA
pH	3/14/22 12:15	3/14/22 12:15			7.17	SU			FA
Temperature	3/14/22 12:15	3/14/22 12:15			21.54	C			FA
Turbidity	3/14/22 12:15	3/14/22 12:15			3.35	NTU			FA

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

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**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/14/22 12:18  
**Customer ID:**  
**Delivery Date:** 3/15/22 15:31

**Description:** Miller Ash Pond - MW-27HR

**Laboratory ID Number:** BC05466

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC05469	Aluminum, Dissolved	mg/L	-0.000880	0.010	0.100	0.108	0.104	0.105	0.0850 to 0.115	108	70.0 to 130	3.77	20.0
BC05468	Aluminum, Total	mg/L	-0.000449	0.010	0.100	0.0998	0.102	0.102	0.0850 to 0.115	99.8	70.0 to 130	2.18	20.0
BC05469	Antimony, Dissolved	mg/L	0.000396	0.00100	0.100	0.104	0.103	0.0981	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC05468	Antimony, Total	mg/L	0.000280	0.00100	0.100	0.0921	0.0954	0.0956	0.0850 to 0.115	92.1	70.0 to 130	3.52	20.0
BC05469	Arsenic, Dissolved	mg/L	-0.000073	0.000176	0.100	0.104	0.101	0.103	0.0850 to 0.115	104	70.0 to 130	2.93	20.0
BC05468	Arsenic, Total	mg/L	-0.0000172	0.000176	0.100	0.0986	0.0995	0.100	0.0850 to 0.115	98.6	70.0 to 130	0.909	20.0
BC05469	Barium, Dissolved	mg/L	0.0000154	0.000200	0.100	11.6	11.7	0.102	0.0850 to 0.115	-200	70.0 to 130	0.858	20.0
BC05468	Barium, Total	mg/L	-0.0000211	0.000200	0.100	0.0983	0.0988	0.102	0.0850 to 0.115	98.3	70.0 to 130	0.507	20.0
BC05469	Beryllium, Dissolved	mg/L	0.0000186	0.000880	0.100	0.111	0.110	0.0997	0.0850 to 0.115	111	70.0 to 130	0.905	20.0
BC05468	Beryllium, Total	mg/L	0.0000224	0.000880	0.100	0.0930	0.0937	0.0983	0.0850 to 0.115	93.0	70.0 to 130	0.750	20.0
BC05469	Boron, Dissolved	mg/L	0.000007	0.0650	1.00	1.79	1.78	1.01	0.850 to 1.15	106	70.0 to 130	0.560	20.0
BC05077	Boron, Total	mg/L	0.000034	0.0650	1.00	1.09	1.11	0.978	0.850 to 1.15	98.3	70.0 to 130	1.82	20.0
BC05469	Cadmium, Dissolved	mg/L	0.00000	0.000147	0.100	0.0985	0.0989	0.103	0.0850 to 0.115	98.5	70.0 to 130	0.405	20.0
BC05468	Cadmium, Total	mg/L	0.00000	0.000147	0.100	0.0978	0.101	0.102	0.0850 to 0.115	97.8	70.0 to 130	3.22	20.0
BC05469	Calcium, Dissolved	mg/L	-0.0138	0.152	5.00	136	130	4.94	4.25 to 5.75	200	70.0 to 130	4.51	20.0
BC05077	Calcium, Total	mg/L	-0.0138	0.152	5.00	17.9	17.9	4.61	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BC05468	Chloride	mg/L	0.0399	1.00	10.0	10.1	10.2	10.1	9.00 to 11.0	101	80.0 to 120	0.985	20.0
BC05469	Chromium, Dissolved	mg/L	-0.0000686	0.000440	0.100	0.102	0.0977	0.106	0.0850 to 0.115	102	70.0 to 130	4.31	20.0
BC05468	Chromium, Total	mg/L	-0.0000549	0.000440	0.100	0.0996	0.101	0.103	0.0850 to 0.115	99.6	70.0 to 130	1.40	20.0
BC05469	Cobalt, Dissolved	mg/L	-0.0000022	0.000147	0.100	0.102	0.0995	0.111	0.0850 to 0.115	102	70.0 to 130	2.48	20.0
BC05468	Cobalt, Total	mg/L	-0.0000023	0.000147	0.100	0.103	0.105	0.106	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BC05467	Fluoride	mg/L	-0.0324	0.125	2.50	2.66	2.67	2.56	2.25 to 2.75	102	80.0 to 120	0.375	20.0
BC05469	Iron, Dissolved	mg/L	-0.0004	0.0176	0.2	1.70	1.69	0.203	0.170 to 0.230	100	70.0 to 130	0.590	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/14/22 12:18  
**Customer ID:**  
**Delivery Date:** 3/15/22 15:31

**Description:** Miller Ash Pond - MW-27HR

**Laboratory ID Number:** BC05466

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05077	Iron, Total	mg/L	0.000222	0.0176	0.2	0.240	0.244	0.199	0.170 to 0.230	95.8	70.0 to 130	1.65	20.0
BC05469	Lead, Dissolved	mg/L	0.0000023	0.000147	0.100	0.0970	0.0974	0.0985	0.0850 to 0.115	97.0	70.0 to 130	0.412	20.0
BC05468	Lead, Total	mg/L	0.0000026	0.000147	0.100	0.0975	0.0991	0.0970	0.0850 to 0.115	97.5	70.0 to 130	1.63	20.0
BC05469	Lithium, Dissolved	mg/L	-0.000216	0.0154	0.200	1.07	1.06	0.192	0.170 to 0.230	110	70.0 to 130	0.939	20.0
BC05077	Lithium, Total	mg/L	-0.000184	0.0154	0.200	0.320	0.329	0.210	0.170 to 0.230	95.0	70.0 to 130	2.77	20.0
BC05469	Magnesium, Dissolved	mg/L	-0.00563	0.0462	5.00	51.1	48.7	5.03	4.25 to 5.75	144	70.0 to 130	4.81	20.0
BC05077	Magnesium, Total	mg/L	0.00456	0.0462	5.00	8.98	9.17	5.21	4.25 to 5.75	95.8	70.0 to 130	2.09	20.0
BC05469	Manganese, Dissolved	mg/L	0.0000155	0.0002	0.100	0.190	0.186	0.108	0.0850 to 0.115	99.5	70.0 to 130	2.13	20.0
BC05468	Manganese, Total	mg/L	0.0000129	0.0002	0.100	0.100	0.102	0.104	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC05467	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00401	0.00399	0.00394	0.00340 to 0.00460	100	70.0 to 130	0.500	20.0
BC05469	Molybdenum, Dissolved	mg/L	0.000003	0.0002	0.100	0.103	0.103	0.106	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC05468	Molybdenum, Total	mg/L	0.0000148	0.0002	0.100	0.0993	0.0993	0.101	0.0850 to 0.115	99.3	70.0 to 130	0.00	20.0
BC05469	Potassium, Dissolved	mg/L	0.000346	0.367	10.0	15.7	15.3	10.6	8.50 to 11.5	98.0	70.0 to 130	2.58	20.0
BC05468	Potassium, Total	mg/L	0.00671	0.367	10.0	9.92	10.2	10.3	8.50 to 11.5	99.2	70.0 to 130	2.78	20.0
BC05469	Selenium, Dissolved	mg/L	0.0000469	0.00100	0.100	0.101	0.102	0.109	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC05468	Selenium, Total	mg/L	0.0000954	0.00100	0.100	0.100	0.102	0.103	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC05469	Silicon, Dissolved	mg/L	0.000265	0.0440	1.00	8.84	8.82	1.03	0.850 to 1.15	111	70.0 to 130	0.227	20.0
BC05077	Silicon, Total	mg/L	-0.000225	0.0440	1.00	7.90	7.98	1.01	0.850 to 1.15	83.0	70.0 to 130	1.01	20.0
BC05469	Sodium, Dissolved	mg/L	0.0394	0.0660	5.00	1650	1580	4.97	4.25 to 5.75	1000	70.0 to 130	4.33	20.0
BC05077	Sodium, Total	mg/L	0.0184	0.0660	5.00	354	356	5.19	4.25 to 5.75	-140	70.0 to 130	0.563	20.0
BC05467	Sulfate	mg/L	-0.0466	2.0	200	322	335	19.8	18.0 to 22.0	108	80.0 to 120	3.96	20.0
BC05469	Thallium, Dissolved	mg/L	0.0000016	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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/14/22 12:18  
**Customer ID:**  
**Delivery Date:** 3/15/22 15:31

**Description:** Miller Ash Pond - MW-27HR

**Laboratory ID Number:** BC05466

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BC05468	Thallium, Total	mg/L	0.0000006	0.000147	0.100	0.0977	0.0987	0.0989	0.0850 to 0.115	97.7	70.0 to 130	1.02	20.0
BC05468	Total Organic Carbon	mg/L	0.270	1.00	10.0	9.71	8.96	8.88		97.1	80.0 to 120	8.03	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

## Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/14/22 12:18  
**Customer ID:**  
**Delivery Date:** 3/15/22 15:31

**Description:** Miller Ash Pond - MW-27HR

**Laboratory ID Number:** BC05466

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec Rec	Rec Limit	Prec	Prec Limit
BC05681	Alkalinity, Total as CaCO3	mg/L					23.8	51.1	45.0 to 55.0			1.67	10.0
BC05467	Nitrogen, Nitrate/Nitrite	mg/L as N	0.05	0.200	2.00	1.90	0.057	1.82	1.80 to 2.20	95.0	90.0 to 110	0.00	15.0
BC05470	Solids, Dissolved	mg/L	0.0000	25.0			882	51.0	40.0 to 60.0			1.69	10.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-28H

**Location Code:** WMWMILAP  
**Collected:** 3/14/22 14:40  
**Customer ID:**  
**Submittal Date:** 3/15/22 15:31

**Laboratory ID Number:** BC05467

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	3/17/22 10:40	3/22/22 11:26		1.015	0.292	mg/L	0.030000	0.1015	
* Calcium, Total	3/17/22 10:40	3/22/22 12:50		10.15	50.6	mg/L	0.70035	4.06	
* Iron, Total	3/17/22 10:40	3/22/22 11:26		1.015	0.861	mg/L	0.008120	0.0406	
* Lithium, Total	3/17/22 10:40	3/22/22 11:26		1.015	0.0531	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/17/22 10:40	3/22/22 11:26		1.015	26.1	mg/L	0.021315	0.406	
Silica, Total (calc.)	3/17/22 10:40	3/22/22 11:26		1	37.4	mg/L			
Silicon, Total	3/17/22 10:40	3/22/22 11:26		1.015	17.5	mg/L	0.02030	0.25375	
* Sodium, Total	3/17/22 10:40	3/22/22 11:26		1.015	36.2	mg/L	0.03045	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	3/17/22 14:16	3/23/22 10:59		1.015	0.309	mg/L	0.030000	0.1015	
* Calcium, Dissolved	3/17/22 14:16	3/23/22 12:31		10.15	56.6	mg/L	0.70035	4.06	
* Iron, Dissolved	3/17/22 14:16	3/23/22 10:59		1.015	0.880	mg/L	0.008120	0.0406	
* Lithium, Dissolved	3/17/22 14:16	3/23/22 10:59		1.015	0.0499	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	3/17/22 14:16	3/23/22 10:59		1.015	25.7	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	3/17/22 14:16	3/23/22 10:59		1	37.7	mg/L			
Silicon, Dissolved	3/17/22 14:16	3/23/22 10:59		1.015	17.6	mg/L	0.02030	0.25375	
* Sodium, Dissolved	3/17/22 14:16	3/23/22 10:59		1.015	36.0	mg/L	0.03045	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	3/16/22 11:29	3/17/22 20:05		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/16/22 11:29	3/17/22 20:05		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	3/16/22 11:29	3/17/22 20:05		1.015	0.00135	mg/L	0.000081	0.000203	
* Barium, Total	3/16/22 11:29	3/17/22 20:05		1.015	0.0452	mg/L	0.000102	0.000203	
* Beryllium, Total	3/16/22 11:29	3/17/22 20:05		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/16/22 11:29	3/17/22 20:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/16/22 11:29	3/17/22 20:05		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	3/16/22 11:29	3/17/22 20:05		1.015	0.000248	mg/L	0.000068	0.000203	
* Lead, Total	3/16/22 11:29	3/17/22 20:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/16/22 11:29	3/17/22 20:05		1.015	0.0613	mg/L	0.000152	0.000203	
* Molybdenum, Total	3/16/22 11:29	3/17/22 20:05		1.015	0.00203	mg/L	0.000102	0.000203	
* Potassium, Total	3/16/22 11:29	3/17/22 20:05		1.015	1.98	mg/L	0.169505	0.5075	

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.



# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-28H

**Location Code:** WMWMILAP  
**Collected:** 3/14/22 14:40  
**Customer ID:**  
**Submittal Date:** 3/15/22 15:31

**Laboratory ID Number:** BC05467

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/16/22 11:29	3/17/22 20:05		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/16/22 11:29	3/17/22 20:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: ABB</b>							
* Antimony, Dissolved	3/16/22 13:41	3/17/22 17:58		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/16/22 13:41	3/17/22 17:58		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/16/22 13:41	3/17/22 17:58		1.015	0.00134	mg/L	0.000081	0.000203	
* Barium, Dissolved	3/16/22 13:41	3/17/22 17:58		1.015	0.0453	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/16/22 13:41	3/17/22 17:58		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/16/22 13:41	3/17/22 17:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/16/22 13:41	3/17/22 17:58		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	3/16/22 13:41	3/17/22 17:58		1.015	0.000267	mg/L	0.000068	0.000203	
* Lead, Dissolved	3/16/22 13:41	3/17/22 17:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/16/22 13:41	3/17/22 17:58		1.015	0.0645	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/16/22 13:41	3/17/22 17:58		1.015	0.00247	mg/L	0.000102	0.000203	
* Potassium, Dissolved	3/16/22 13:41	3/17/22 17:58		1.015	1.95	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/16/22 13:41	3/17/22 17:58		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/16/22 13:41	3/17/22 17:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	3/18/22 17:13	3/18/22 21:46		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	3/17/22 13:43	3/17/22 13:43		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity, Total as CaCO3	3/25/22 09:45	3/25/22 12:15		1	210	mg/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	3/16/22 11:00	3/17/22 13:20		1	377	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
Bicarbonate Alkalinity, (calc.)	3/25/22 09:45	3/25/22 12:15		1	208	mg/L			
Carbonate Alkalinity, (calc.)	3/25/22 09:45	3/25/22 12:15		1	2.05	mg/L			
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/18/22 12:28	3/18/22 12:28		1	Not Detected	mg/L	1.00	2	U

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-28H

**Location Code:** WMWMILAP  
**Collected:** 3/14/22 14:40  
**Customer ID:**  
**Submittal Date:** 3/15/22 15:31

**Laboratory ID Number:** BC05467

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/21/22 10:16	3/21/22 10:16		1	5.91	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 10:02	3/22/22 10:02		1	0.111	mg/L	0.06	0.125	J
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/24/22 10:01	3/24/22 10:01		10	105	mg/L	6.0	20	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	3/14/22 14:37	3/14/22 14:37			549.52	uS/cm			FA
pH	3/14/22 14:37	3/14/22 14:37			6.82	SU			FA
Temperature	3/14/22 14:37	3/14/22 14:37			23.16	C			FA
Turbidity	3/14/22 14:37	3/14/22 14:37			1.22	NTU			FA

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/14/22 14:40  
**Customer ID:**  
**Delivery Date:** 3/15/22 15:31

**Description:** Miller Ash Pond - MW-28H

**Laboratory ID Number:** BC05467

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec
				Limit					Standard	Limit	Rec	Limit	
BC05469	Aluminum, Dissolved	mg/L	-0.000880	0.010	0.100	0.108	0.104	0.105	0.0850 to 0.115	108	70.0 to 130	3.77	20.0
BC05468	Aluminum, Total	mg/L	-0.000449	0.010	0.100	0.0998	0.102	0.102	0.0850 to 0.115	99.8	70.0 to 130	2.18	20.0
BC05469	Antimony, Dissolved	mg/L	0.000396	0.00100	0.100	0.104	0.103	0.0981	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC05468	Antimony, Total	mg/L	0.000280	0.00100	0.100	0.0921	0.0954	0.0956	0.0850 to 0.115	92.1	70.0 to 130	3.52	20.0
BC05469	Arsenic, Dissolved	mg/L	-0.0000073	0.000176	0.100	0.104	0.101	0.103	0.0850 to 0.115	104	70.0 to 130	2.93	20.0
BC05468	Arsenic, Total	mg/L	-0.0000172	0.000176	0.100	0.0986	0.0995	0.100	0.0850 to 0.115	98.6	70.0 to 130	0.909	20.0
BC05469	Barium, Dissolved	mg/L	0.0000154	0.000200	0.100	11.6	11.7	0.102	0.0850 to 0.115	-200	70.0 to 130	0.858	20.0
BC05468	Barium, Total	mg/L	-0.0000211	0.000200	0.100	0.0983	0.0988	0.102	0.0850 to 0.115	98.3	70.0 to 130	0.507	20.0
BC05469	Beryllium, Dissolved	mg/L	0.0000186	0.000880	0.100	0.111	0.110	0.0997	0.0850 to 0.115	111	70.0 to 130	0.905	20.0
BC05468	Beryllium, Total	mg/L	0.0000224	0.000880	0.100	0.0930	0.0937	0.0983	0.0850 to 0.115	93.0	70.0 to 130	0.750	20.0
BC05469	Boron, Dissolved	mg/L	0.0000007	0.0650	1.00	1.79	1.78	1.01	0.850 to 1.15	106	70.0 to 130	0.560	20.0
BC05077	Boron, Total	mg/L	0.000034	0.0650	1.00	1.09	1.11	0.978	0.850 to 1.15	98.3	70.0 to 130	1.82	20.0
BC05469	Cadmium, Dissolved	mg/L	0.000000	0.000147	0.100	0.0985	0.0989	0.103	0.0850 to 0.115	98.5	70.0 to 130	0.405	20.0
BC05468	Cadmium, Total	mg/L	0.000000	0.000147	0.100	0.0978	0.101	0.102	0.0850 to 0.115	97.8	70.0 to 130	3.22	20.0
BC05469	Calcium, Dissolved	mg/L	-0.0138	0.152	5.00	136	130	4.94	4.25 to 5.75	200	70.0 to 130	4.51	20.0
BC05077	Calcium, Total	mg/L	-0.0138	0.152	5.00	17.9	17.9	4.61	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BC05468	Chloride	mg/L	0.0399	1.00	10.0	10.1	10.2	10.1	9.00 to 11.0	101	80.0 to 120	0.985	20.0
BC05469	Chromium, Dissolved	mg/L	-0.0000686	0.000440	0.100	0.102	0.0977	0.106	0.0850 to 0.115	102	70.0 to 130	4.31	20.0
BC05468	Chromium, Total	mg/L	-0.0000549	0.000440	0.100	0.0996	0.101	0.103	0.0850 to 0.115	99.6	70.0 to 130	1.40	20.0
BC05469	Cobalt, Dissolved	mg/L	-0.0000022	0.000147	0.100	0.102	0.0995	0.111	0.0850 to 0.115	102	70.0 to 130	2.48	20.0
BC05468	Cobalt, Total	mg/L	-0.0000023	0.000147	0.100	0.103	0.105	0.106	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BC05467	Fluoride	mg/L	-0.0324	0.125	2.50	2.66	2.67	2.56	2.25 to 2.75	102	80.0 to 120	0.375	20.0
BC05469	Iron, Dissolved	mg/L	-0.0004	0.0176	0.2	1.70	1.69	0.203	0.170 to 0.230	100	70.0 to 130	0.590	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/14/22 14:40  
**Customer ID:**  
**Delivery Date:** 3/15/22 15:31

**Description:** Miller Ash Pond - MW-28H

**Laboratory ID Number:** BC05467

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05077	Iron, Total	mg/L	0.000222	0.0176	0.2	0.240	0.244	0.199	0.170 to 0.230	95.8	70.0 to 130	1.65	20.0
BC05469	Lead, Dissolved	mg/L	0.0000023	0.000147	0.100	0.0970	0.0974	0.0985	0.0850 to 0.115	97.0	70.0 to 130	0.412	20.0
BC05468	Lead, Total	mg/L	0.0000026	0.000147	0.100	0.0975	0.0991	0.0970	0.0850 to 0.115	97.5	70.0 to 130	1.63	20.0
BC05469	Lithium, Dissolved	mg/L	-0.000216	0.0154	0.200	1.07	1.06	0.192	0.170 to 0.230	110	70.0 to 130	0.939	20.0
BC05077	Lithium, Total	mg/L	-0.000184	0.0154	0.200	0.320	0.329	0.210	0.170 to 0.230	95.0	70.0 to 130	2.77	20.0
BC05469	Magnesium, Dissolved	mg/L	-0.00563	0.0462	5.00	51.1	48.7	5.03	4.25 to 5.75	144	70.0 to 130	4.81	20.0
BC05077	Magnesium, Total	mg/L	0.00456	0.0462	5.00	8.98	9.17	5.21	4.25 to 5.75	95.8	70.0 to 130	2.09	20.0
BC05469	Manganese, Dissolved	mg/L	0.0000155	0.0002	0.100	0.190	0.186	0.108	0.0850 to 0.115	99.5	70.0 to 130	2.13	20.0
BC05468	Manganese, Total	mg/L	0.0000129	0.0002	0.100	0.100	0.102	0.104	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC05467	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00401	0.00399	0.00394	0.00340 to 0.00460	100	70.0 to 130	0.500	20.0
BC05469	Molybdenum, Dissolved	mg/L	0.000003	0.0002	0.100	0.103	0.103	0.106	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC05468	Molybdenum, Total	mg/L	0.0000148	0.0002	0.100	0.0993	0.0993	0.101	0.0850 to 0.115	99.3	70.0 to 130	0.00	20.0
BC05469	Potassium, Dissolved	mg/L	0.000346	0.367	10.0	15.7	15.3	10.6	8.50 to 11.5	98.0	70.0 to 130	2.58	20.0
BC05468	Potassium, Total	mg/L	0.00671	0.367	10.0	9.92	10.2	10.3	8.50 to 11.5	99.2	70.0 to 130	2.78	20.0
BC05469	Selenium, Dissolved	mg/L	0.0000469	0.00100	0.100	0.101	0.102	0.109	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC05468	Selenium, Total	mg/L	0.0000954	0.00100	0.100	0.100	0.102	0.103	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC05469	Silicon, Dissolved	mg/L	0.000265	0.0440	1.00	8.84	8.82	1.03	0.850 to 1.15	111	70.0 to 130	0.227	20.0
BC05077	Silicon, Total	mg/L	-0.000225	0.0440	1.00	7.90	7.98	1.01	0.850 to 1.15	83.0	70.0 to 130	1.01	20.0
BC05469	Sodium, Dissolved	mg/L	0.0394	0.0660	5.00	1650	1580	4.97	4.25 to 5.75	1000	70.0 to 130	4.33	20.0
BC05077	Sodium, Total	mg/L	0.0184	0.0660	5.00	354	356	5.19	4.25 to 5.75	-140	70.0 to 130	0.563	20.0
BC05467	Sulfate	mg/L	-0.0466	2.0	200	322	335	19.8	18.0 to 22.0	108	80.0 to 120	3.96	20.0
BC05469	Thallium, Dissolved	mg/L	0.0000016	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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/14/22 14:40  
**Customer ID:**  
**Delivery Date:** 3/15/22 15:31

**Description:** Miller Ash Pond - MW-28H

**Laboratory ID Number:** BC05467

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Limit	Prec	Prec Limit	
BC05468	Thallium, Total	mg/L	0.0000006	0.000147	0.100	0.0977	0.0987	0.0989	0.0850 to 0.115	97.7	70.0 to 130	1.02	20.0
BC05468	Total Organic Carbon	mg/L	0.270	1.00	10.0	9.71	8.96	8.88		97.1	80.0 to 120	8.03	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

## Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/14/22 14:40  
**Customer ID:**  
**Delivery Date:** 3/15/22 15:31

**Description:** Miller Ash Pond - MW-28H

**Laboratory ID Number:** BC05467

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec Rec	Rec Limit	Prec	Prec Limit
BC05681	Alkalinity, Total as CaCO3	mg/L					23.8	51.1	45.0 to 55.0			1.67	10.0
BC05467	Nitrogen, Nitrate/Nitrite	mg/L as N	0.05	0.200	2.00	1.90	0.057	1.82	1.80 to 2.20	95.0	90.0 to 110	0.00	15.0
BC05470	Solids, Dissolved	mg/L	0.0000	25.0			882	51.0	40.0 to 60.0			1.69	10.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond Field Blank-2

**Location Code:** WMWMILAPFB  
**Collected:** 3/14/22 15:45  
**Customer ID:**  
**Submittal Date:** 3/15/22 15:31

**Laboratory ID Number:** BC05468

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	3/17/22 10:40	3/22/22 11:32		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	3/17/22 10:40	3/22/22 11:32		1.015	Not Detected	mg/L	0.070035	0.406	U	
* Iron, Total	3/17/22 10:40	3/22/22 11:32		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	3/17/22 10:40	3/22/22 11:32		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	3/17/22 10:40	3/22/22 11:32		1.015	Not Detected	mg/L	0.021315	0.406	U	
Silica, Total (calc.)	3/17/22 10:40	3/22/22 11:32		1	Not Detected	mg/L				
Silicon, Total	3/17/22 10:40	3/22/22 11:32		1.015	Not Detected	mg/L	0.02030	0.25375	U	
* Sodium, Total	3/17/22 10:40	3/22/22 11:32		1.015	Not Detected	mg/L	0.03045	0.406	U	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	3/16/22 11:29	3/17/22 20:09		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	3/16/22 11:29	3/17/22 20:09		1.015	Not Detected	mg/L	0.006090	0.01015	U	
* Arsenic, Total	3/16/22 11:29	3/17/22 20:09		1.015	Not Detected	mg/L	0.000081	0.000203	U	
* Barium, Total	3/16/22 11:29	3/17/22 20:09		1.015	Not Detected	mg/L	0.000102	0.000203	U	
* Beryllium, Total	3/16/22 11:29	3/17/22 20:09		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	3/16/22 11:29	3/17/22 20:09		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	3/16/22 11:29	3/17/22 20:09		1.015	Not Detected	mg/L	0.000203	0.001015	U	
* Cobalt, Total	3/16/22 11:29	3/17/22 20:09		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	3/16/22 11:29	3/17/22 20:09		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	3/16/22 11:29	3/17/22 20:09		1.015	Not Detected	mg/L	0.000152	0.000203	U	
* Molybdenum, Total	3/16/22 11:29	3/17/22 20:09		1.015	Not Detected	mg/L	0.000102	0.000203	U	
* Potassium, Total	3/16/22 11:29	3/17/22 20:09		1.015	Not Detected	mg/L	0.169505	0.5075	U	
* Selenium, Total	3/16/22 11:29	3/17/22 20:09		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	3/16/22 11:29	3/17/22 20:09		1.015	Not Detected	mg/L	0.000068	0.000203	U	
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>								
* Mercury, Total by CVAA	3/18/22 17:13	3/18/22 22:05		1	Not Detected	mg/L	0.0003	0.0005	U	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: ELH</b>								
* Nitrogen, Nitrate/Nitrite	3/23/22 13:11	3/23/22 13:11		1	Not Detected	mg/L as N	0.20	0.3	U	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>								
* Solids, Dissolved	3/16/22 11:00	3/17/22 13:20		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:** 3/14/22 15:45

**Customer ID:**

**Submittal Date:** 3/15/22 15:31

**Laboratory ID Number:** BC05468

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/18/22 12:44	3/18/22 12:44		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/21/22 10:18	3/21/22 10:18		1	Not Detected	mg/L	0.50	1	U
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 10:14	3/22/22 10:14		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/24/22 11:47	3/24/22 11:47		1	Not Detected	mg/L	0.6	2	U

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

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**Comments:**



# Batch QC Summary

**Customer Account:** WMWMILAPFB

**Sample Date:** 3/14/22 15:45

**Customer ID:**

**Delivery Date:** 3/15/22 15:31

**Description:** Miller Ash Pond Field Blank-2

**Laboratory ID Number:** BC05468

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BC05468	Aluminum, Total	mg/L	-0.000449	0.010	0.100	0.0998	0.102	0.102	0.0850 to 0.115	99.8	70.0 to 130	2.18	20.0
BC05468	Antimony, Total	mg/L	0.000280	0.00100	0.100	0.0921	0.0954	0.0956	0.0850 to 0.115	92.1	70.0 to 130	3.52	20.0
BC05468	Arsenic, Total	mg/L	-0.0000172	0.000176	0.100	0.0986	0.0995	0.100	0.0850 to 0.115	98.6	70.0 to 130	0.909	20.0
BC05468	Barium, Total	mg/L	-0.0000211	0.000200	0.100	0.0983	0.0988	0.102	0.0850 to 0.115	98.3	70.0 to 130	0.507	20.0
BC05468	Beryllium, Total	mg/L	0.0000224	0.000880	0.100	0.0930	0.0937	0.0983	0.0850 to 0.115	93.0	70.0 to 130	0.750	20.0
BC05470	Boron, Total	mg/L	0.000034	0.0650	1.00	1.06	1.06	0.978	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC05468	Cadmium, Total	mg/L	0.000000	0.000147	0.100	0.0978	0.101	0.102	0.0850 to 0.115	97.8	70.0 to 130	3.22	20.0
BC05470	Calcium, Total	mg/L	-0.0138	0.152	5.00	108	105	4.61	4.25 to 5.75	198	70.0 to 130	2.82	20.0
BC05468	Chloride	mg/L	0.0399	1.00	10.0	10.1	10.2	10.1	9.00 to 11.0	101	80.0 to 120	0.985	20.0
BC05468	Chromium, Total	mg/L	-0.0000549	0.000440	0.100	0.0996	0.101	0.103	0.0850 to 0.115	99.6	70.0 to 130	1.40	20.0
BC05468	Cobalt, Total	mg/L	-0.0000023	0.000147	0.100	0.103	0.105	0.106	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BC05682	Fluoride	mg/L	-0.0264	0.125	2.50	4.33	4.33	2.58	2.25 to 2.75	98.8	80.0 to 120	0.00	20.0
BC05470	Iron, Total	mg/L	0.000222	0.0176	0.2	5.20	5.12	0.199	0.170 to 0.230	150	70.0 to 130	1.55	20.0
BC05468	Lead, Total	mg/L	0.0000026	0.000147	0.100	0.0975	0.0991	0.0970	0.0850 to 0.115	97.5	70.0 to 130	1.63	20.0
BC05470	Lithium, Total	mg/L	-0.000184	0.0154	0.200	0.357	0.350	0.210	0.170 to 0.230	100	70.0 to 130	1.98	20.0
BC05470	Magnesium, Total	mg/L	0.00456	0.0462	5.00	30.8	30.7	5.21	4.25 to 5.75	94.0	70.0 to 130	0.325	20.0
BC05468	Manganese, Total	mg/L	0.0000129	0.0002	0.100	0.100	0.102	0.104	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC05682	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00398	0.00404	0.00394	0.00340 to 0.00460	99.5	70.0 to 130	1.50	20.0
BC05468	Molybdenum, Total	mg/L	0.0000148	0.0002	0.100	0.0993	0.0993	0.101	0.0850 to 0.115	99.3	70.0 to 130	0.00	20.0
BC05468	Potassium, Total	mg/L	0.00671	0.367	10.0	9.92	10.2	10.3	8.50 to 11.5	99.2	70.0 to 130	2.78	20.0
BC05468	Selenium, Total	mg/L	0.0000954	0.00100	0.100	0.100	0.102	0.103	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC05470	Silicon, Total	mg/L	-0.000225	0.0440	1.00	7.17	7.17	1.01	0.850 to 1.15	105	70.0 to 130	0.00	20.0
BC05470	Sodium, Total	mg/L	0.0184	0.0660	5.00	169	155	5.19	4.25 to 5.75	320	70.0 to 130	8.64	20.0

**Comments:**

# Batch QC Summary

**Customer Account:** WMWMILAPFB

**Sample Date:** 3/14/22 15:45

**Customer ID:**

**Delivery Date:** 3/15/22 15:31

**Description:** Miller Ash Pond Field Blank-2

**Laboratory ID Number:** BC05468

Sample	Analysis	Units	MB	MB				MSD	Standard	Standard Limit	Rec		Prec Limit
				Limit	Spike	MS	MSD				Rec	Limit	
BC05682	Sulfate	mg/L	0.232	2.0	800	1570	1550	20.3	18.0 to 22.0	104	80.0 to 120	1.28	20.0
BC05468	Thallium, Total	mg/L	0.0000006	0.000147	0.100	0.0977	0.0987	0.0989	0.0850 to 0.115	97.7	70.0 to 130	1.02	20.0
BC05468	Total Organic Carbon	mg/L	0.270	1.00	10.0	9.71	8.96	8.88		97.1	80.0 to 120	8.03	20.0

**Comments:**

## Batch QC Summary

**Customer Account:** WMWMILAPFB

**Sample Date:** 3/14/22 15:45

**Customer ID:**

**Delivery Date:** 3/15/22 15:31

**Description:** Miller Ash Pond Field Blank-2

**Laboratory ID Number:** BC05468

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05682	Nitrogen, Nitrate/Nitrite	mg/L as N	0.02	0.200	2.00	2.04	0.021	1.98	1.80 to 2.20	102	90.0 to 110	0.00	15.0
BC05470	Solids, Dissolved	mg/L	0.0000	25.0			882	51.0	40.0 to 60.0			1.69	10.0

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**Comments:**

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-23

**Location Code:** WMWMILAP  
**Collected:** 3/15/22 09:45  
**Customer ID:**  
**Submittal Date:** 3/15/22 15:31

**Laboratory ID Number:** BC05469

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	3/17/22 10:40	3/22/22 11:34		1.015	0.709	mg/L	0.030000	0.1015	
* Calcium, Total	3/17/22 10:40	3/22/22 12:58		10.15	117	mg/L	0.70035	4.06	
* Iron, Total	3/17/22 10:40	3/22/22 11:34		1.015	2.00	mg/L	0.008120	0.0406	
* Lithium, Total	3/17/22 10:40	3/22/22 11:34		1.015	0.911	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/17/22 10:40	3/22/22 12:58		10.15	42.7	mg/L	0.21315	4.06	
Silica, Total (calc.)	3/17/22 10:40	3/22/22 11:34		1	16.3	mg/L			
Silicon, Total	3/17/22 10:40	3/22/22 11:34		1.015	7.64	mg/L	0.02030	0.25375	
* Sodium, Total	3/17/22 10:40	3/22/22 12:56		101.5	1600	mg/L	3.045	40.6	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	3/17/22 14:16	3/23/22 11:00		1.015	0.732	mg/L	0.030000	0.1015	
* Calcium, Dissolved	3/17/22 14:16	3/23/22 12:33		50.75	126	mg/L	3.50175	20.3	RA
* Iron, Dissolved	3/17/22 14:16	3/23/22 11:00		1.015	1.50	mg/L	0.008120	0.0406	
* Lithium, Dissolved	3/17/22 14:16	3/23/22 11:00		1.015	0.851	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	3/17/22 14:16	3/23/22 12:33		50.75	43.9	mg/L	1.06575	20.3	RA
Silica, Dissolved (calc.)	3/17/22 14:16	3/23/22 11:00		1	16.5	mg/L			
Silicon, Dissolved	3/17/22 14:16	3/23/22 11:00		1.015	7.73	mg/L	0.02030	0.25375	
* Sodium, Dissolved	3/17/22 14:16	3/23/22 12:33		50.75	1600	mg/L	1.5225	20.3	RA
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	3/16/22 11:29	3/17/22 20:30		1.015	0.000896	mg/L	0.000508	0.001015	J
* Aluminum, Total	3/16/22 11:29	3/17/22 20:30		1.015	0.0350	mg/L	0.006090	0.01015	
* Arsenic, Total	3/16/22 11:29	3/17/22 20:30		1.015	0.000383	mg/L	0.000081	0.000203	
* Barium, Total	3/16/22 11:29	3/21/22 11:51		92.365	11.7	mg/L	0.009236	0.018473	
* Beryllium, Total	3/16/22 11:29	3/17/22 20:30		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/16/22 11:29	3/17/22 20:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/16/22 11:29	3/17/22 20:30		1.015	0.000390	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/16/22 11:29	3/17/22 20:30		1.015	0.0000781	mg/L	0.000068	0.000203	J
* Lead, Total	3/16/22 11:29	3/17/22 20:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/16/22 11:29	3/17/22 20:30		1.015	0.0977	mg/L	0.000152	0.000203	
* Molybdenum, Total	3/16/22 11:29	3/17/22 20:30		1.015	0.00221	mg/L	0.000102	0.000203	
* Potassium, Total	3/16/22 11:29	3/17/22 20:30		1.015	6.06	mg/L	0.169505	0.5075	

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-23

**Location Code:** WMWMILAP  
**Collected:** 3/15/22 09:45  
**Customer ID:**  
**Submittal Date:** 3/15/22 15:31

**Laboratory ID Number:** BC05469

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/16/22 11:29	3/17/22 20:30		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/16/22 11:29	3/17/22 20:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: ABB</b>							
* Antimony, Dissolved	3/16/22 13:41	3/17/22 18:02		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/16/22 13:41	3/17/22 18:02		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/16/22 13:41	3/17/22 18:02		1.015	0.000356	mg/L	0.000081	0.000203	
* Barium, Dissolved	3/16/22 13:41	3/21/22 11:08		92.365	11.8	mg/L	0.009236	0.018473	
* Beryllium, Dissolved	3/16/22 13:41	3/17/22 18:02		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/16/22 13:41	3/17/22 18:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/16/22 13:41	3/17/22 18:02		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	3/16/22 13:41	3/17/22 18:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	3/16/22 13:41	3/17/22 18:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/16/22 13:41	3/17/22 18:02		1.015	0.0905	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/16/22 13:41	3/17/22 18:02		1.015	0.00174	mg/L	0.000102	0.000203	
* Potassium, Dissolved	3/16/22 13:41	3/17/22 18:02		1.015	5.90	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/16/22 13:41	3/17/22 18:02		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/16/22 13:41	3/17/22 18:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	3/18/22 17:13	3/18/22 22:09		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: ELH</b>							
* Nitrogen, Nitrate/Nitrite	3/23/22 13:13	3/23/22 13:13		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity, Total as CaCO3	3/25/22 09:45	3/25/22 12:15		1	318	mg/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	3/16/22 11:00	3/17/22 13:20		1	4680	mg/L		416.7	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
Bicarbonate Alkalinity, (calc.)	3/25/22 09:45	3/25/22 12:15		1	316	mg/L			A
Carbonate Alkalinity, (calc.)	3/25/22 09:45	3/25/22 12:15		1	1.56	mg/L			A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/21/22 10:57	3/21/22 10:57		1	1.14	mg/L	1.00	2	J

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-23

**Location Code:** WMWMILAP  
**Collected:** 3/15/22 09:45  
**Customer ID:**  
**Submittal Date:** 3/15/22 15:31

**Laboratory ID Number:** BC05469

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/21/22 11:03	3/21/22 11:03		200	2450	mg/L	100.00	200	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 10:19	3/22/22 10:19		1	0.403	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/24/22 11:48	3/24/22 11:48		1	0.862	mg/L	0.6	2	J
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	3/15/22 09:43	3/15/22 09:43			7522.25	uS/cm			FA
pH	3/15/22 09:43	3/15/22 09:43			7.61	SU			FA
Temperature	3/15/22 09:43	3/15/22 09:43			20.30	C			FA
Turbidity	3/15/22 09:43	3/15/22 09:43			3.7	NTU			FA

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/15/22 09:45  
**Customer ID:**  
**Delivery Date:** 3/15/22 15:31

**Description:** Miller Ash Pond - MW-23

**Laboratory ID Number:** BC05469

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BC05469	Aluminum, Dissolved	mg/L	-0.000880	0.010	0.100	0.108	0.104	0.105	0.0850 to 0.115	108	70.0 to 130	3.77	20.0
BC05470	Aluminum, Total	mg/L	-0.000449	0.010	0.100	0.106	0.105	0.102	0.0850 to 0.115	96.1	70.0 to 130	0.948	20.0
BC05469	Antimony, Dissolved	mg/L	0.000396	0.00100	0.100	0.104	0.103	0.0981	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC05470	Antimony, Total	mg/L	0.000280	0.00100	0.100	0.0969	0.0964	0.0956	0.0850 to 0.115	96.9	70.0 to 130	0.517	20.0
BC05469	Arsenic, Dissolved	mg/L	-0.000073	0.000176	0.100	0.104	0.101	0.103	0.0850 to 0.115	104	70.0 to 130	2.93	20.0
BC05470	Arsenic, Total	mg/L	-0.0000172	0.000176	0.100	0.0975	0.0961	0.100	0.0850 to 0.115	95.4	70.0 to 130	1.45	20.0
BC05469	Barium, Dissolved	mg/L	0.0000154	0.000200	0.100	11.6	11.7	0.102	0.0850 to 0.115	-200	70.0 to 130	0.858	20.0
BC05470	Barium, Total	mg/L	-0.0000211	0.000200	0.100	0.214	0.215	0.102	0.0850 to 0.115	94.0	70.0 to 130	0.466	20.0
BC05469	Beryllium, Dissolved	mg/L	0.0000186	0.000880	0.100	0.111	0.110	0.0997	0.0850 to 0.115	111	70.0 to 130	0.905	20.0
BC05470	Beryllium, Total	mg/L	0.0000224	0.000880	0.100	0.0952	0.0926	0.0983	0.0850 to 0.115	95.2	70.0 to 130	2.77	20.0
BC05469	Boron, Dissolved	mg/L	0.000007	0.0650	1.00	1.79	1.78	1.01	0.850 to 1.15	106	70.0 to 130	0.560	20.0
BC05470	Boron, Total	mg/L	0.000034	0.0650	1.00	1.06	1.06	0.978	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC05469	Cadmium, Dissolved	mg/L	0.000000	0.000147	0.100	0.0985	0.0989	0.103	0.0850 to 0.115	98.5	70.0 to 130	0.405	20.0
BC05470	Cadmium, Total	mg/L	0.000000	0.000147	0.100	0.0940	0.0918	0.102	0.0850 to 0.115	94.0	70.0 to 130	2.37	20.0
BC05469	Calcium, Dissolved	mg/L	-0.0138	0.152	5.00	136	130	4.94	4.25 to 5.75	200	70.0 to 130	4.51	20.0
BC05470	Calcium, Total	mg/L	-0.0138	0.152	5.00	108	105	4.61	4.25 to 5.75	198	70.0 to 130	2.82	20.0
BC05683	Chloride	mg/L	0.00672	1.00	10.0	21.3	21.3	10.1	9.00 to 11.0	102	80.0 to 120	0.00	20.0
BC05469	Chromium, Dissolved	mg/L	-0.0000686	0.000440	0.100	0.102	0.0977	0.106	0.0850 to 0.115	102	70.0 to 130	4.31	20.0
BC05470	Chromium, Total	mg/L	-0.0000549	0.000440	0.100	0.0971	0.0950	0.103	0.0850 to 0.115	95.1	70.0 to 130	2.19	20.0
BC05469	Cobalt, Dissolved	mg/L	-0.0000022	0.000147	0.100	0.102	0.0995	0.111	0.0850 to 0.115	102	70.0 to 130	2.48	20.0
BC05470	Cobalt, Total	mg/L	-0.0000023	0.000147	0.100	0.100	0.0976	0.106	0.0850 to 0.115	99.6	70.0 to 130	2.43	20.0
BC05682	Fluoride	mg/L	-0.0264	0.125	2.50	4.33	4.33	2.58	2.25 to 2.75	98.8	80.0 to 120	0.00	20.0
BC05469	Iron, Dissolved	mg/L	-0.0004	0.0176	0.2	1.70	1.69	0.203	0.170 to 0.230	100	70.0 to 130	0.590	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/15/22 09:45  
**Customer ID:**  
**Delivery Date:** 3/15/22 15:31

**Description:** Miller Ash Pond - MW-23

**Laboratory ID Number:** BC05469

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05470	Iron, Total	mg/L	0.000222	0.0176	0.2	5.20	5.12	0.199	0.170 to 0.230	150	70.0 to 130	1.55	20.0
BC05469	Lead, Dissolved	mg/L	0.0000023	0.000147	0.100	0.0970	0.0974	0.0985	0.0850 to 0.115	97.0	70.0 to 130	0.412	20.0
BC05470	Lead, Total	mg/L	0.0000026	0.000147	0.100	0.0937	0.0939	0.0970	0.0850 to 0.115	93.7	70.0 to 130	0.213	20.0
BC05469	Lithium, Dissolved	mg/L	-0.000216	0.0154	0.200	1.07	1.06	0.192	0.170 to 0.230	110	70.0 to 130	0.939	20.0
BC05470	Lithium, Total	mg/L	-0.000184	0.0154	0.200	0.357	0.350	0.210	0.170 to 0.230	100	70.0 to 130	1.98	20.0
BC05469	Magnesium, Dissolved	mg/L	-0.00563	0.0462	5.00	51.1	48.7	5.03	4.25 to 5.75	144	70.0 to 130	4.81	20.0
BC05470	Magnesium, Total	mg/L	0.00456	0.0462	5.00	30.8	30.7	5.21	4.25 to 5.75	94.0	70.0 to 130	0.325	20.0
BC05469	Manganese, Dissolved	mg/L	0.0000155	0.0002	0.100	0.190	0.186	0.108	0.0850 to 0.115	99.5	70.0 to 130	2.13	20.0
BC05470	Manganese, Total	mg/L	0.0000129	0.0002	0.100	0.192	0.190	0.104	0.0850 to 0.115	94.7	70.0 to 130	1.05	20.0
BC05682	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00398	0.00404	0.00394	0.00340 to 0.00460	99.5	70.0 to 130	1.50	20.0
BC05469	Molybdenum, Dissolved	mg/L	0.000003	0.0002	0.100	0.103	0.103	0.106	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC05470	Molybdenum, Total	mg/L	0.0000148	0.0002	0.100	0.104	0.102	0.101	0.0850 to 0.115	98.3	70.0 to 130	1.94	20.0
BC05469	Potassium, Dissolved	mg/L	0.000346	0.367	10.0	15.7	15.3	10.6	8.50 to 11.5	98.0	70.0 to 130	2.58	20.0
BC05470	Potassium, Total	mg/L	0.00671	0.367	10.0	16.0	16.0	10.3	8.50 to 11.5	97.6	70.0 to 130	0.00	20.0
BC05469	Selenium, Dissolved	mg/L	0.0000469	0.00100	0.100	0.101	0.102	0.109	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC05470	Selenium, Total	mg/L	0.0000954	0.00100	0.100	0.0956	0.0952	0.103	0.0850 to 0.115	95.6	70.0 to 130	0.419	20.0
BC05469	Silicon, Dissolved	mg/L	0.000265	0.0440	1.00	8.84	8.82	1.03	0.850 to 1.15	111	70.0 to 130	0.227	20.0
BC05470	Silicon, Total	mg/L	-0.000225	0.0440	1.00	7.17	7.17	1.01	0.850 to 1.15	105	70.0 to 130	0.00	20.0
BC05469	Sodium, Dissolved	mg/L	0.0394	0.0660	5.00	1650	1580	4.97	4.25 to 5.75	1000	70.0 to 130	4.33	20.0
BC05470	Sodium, Total	mg/L	0.0184	0.0660	5.00	169	155	5.19	4.25 to 5.75	320	70.0 to 130	8.64	20.0
BC05682	Sulfate	mg/L	0.232	2.0	800	1570	1550	20.3	18.0 to 22.0	104	80.0 to 120	1.28	20.0
BC05469	Thallium, Dissolved	mg/L	0.0000016	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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.



# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/15/22 09:45  
**Customer ID:**  
**Delivery Date:** 3/15/22 15:31

**Description:** Miller Ash Pond - MW-23

**Laboratory ID Number:** BC05469

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05470	Thallium, Total	mg/L	0.0000006	0.000147	0.100	0.0969	0.0963	0.0989	0.0850 to 0.115	96.9	70.0 to 130	0.621	20.0
BC05683	Total Organic Carbon	mg/L	0.310	1.00	10.0	10.6	10.8	9.90		106	80.0 to 120	1.87	20.0

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**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

## Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/15/22 09:45  
**Customer ID:**  
**Delivery Date:** 3/15/22 15:31

**Description:** Miller Ash Pond - MW-23

**Laboratory ID Number:** BC05469

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05681	Alkalinity, Total as CaCO3	mg/L					23.8	51.1	45.0 to 55.0			1.67	10.0
BC05682	Nitrogen, Nitrate/Nitrite	mg/L as N	0.02	0.200	2.00	2.04	0.021	1.98	1.80 to 2.20	102	90.0 to 110	0.00	15.0
BC05470	Solids, Dissolved	mg/L	0.0000	25.0			882	51.0	40.0 to 60.0			1.69	10.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-1

**Location Code:** WMWMILAP  
**Collected:** 3/15/22 11:10  
**Customer ID:**  
**Submittal Date:** 3/15/22 15:31

**Laboratory ID Number:** BC05470

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	3/17/22 10:40	3/22/22 11:35		1.015	0.0528	mg/L	0.030000	0.1015	J	
* Calcium, Total	3/17/22 10:40	3/22/22 13:00		10.15	98.1	mg/L	0.70035	4.06	RA	
* Iron, Total	3/17/22 10:40	3/22/22 13:00		10.15	4.90	mg/L	0.08120	0.406	RA	
* Lithium, Total	3/17/22 10:40	3/22/22 11:35		1.015	0.156	mg/L	0.007105	0.01999956		
* Magnesium, Total	3/17/22 10:40	3/22/22 11:35		1.015	26.1	mg/L	0.021315	0.406		
Silica, Total (calc.)	3/17/22 10:40	3/22/22 11:35		1	13.1	mg/L				
Silicon, Total	3/17/22 10:40	3/22/22 11:35		1.015	6.12	mg/L	0.02030	0.25375		
* Sodium, Total	3/17/22 10:40	3/22/22 13:00		10.15	153	mg/L	0.3045	4.06	RA	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Dissolved	3/17/22 14:16	3/23/22 11:18		1.015	0.0604	mg/L	0.030000	0.1015	J	
* Calcium, Dissolved	3/17/22 14:16	3/23/22 12:42		10.15	178	mg/L	0.70035	4.06	RA	
* Iron, Dissolved	3/17/22 14:16	3/23/22 12:42		10.15	9.91	mg/L	0.08120	0.406	RA	
* Lithium, Dissolved	3/17/22 14:16	3/23/22 11:18		1.015	0.194	mg/L	0.007105	0.01999956		
* Magnesium, Dissolved	3/17/22 14:16	3/23/22 11:18		1.015	34.3	mg/L	0.021315	0.406		
Silica, Dissolved (calc.)	3/17/22 14:16	3/23/22 11:18		1	14.1	mg/L				
Silicon, Dissolved	3/17/22 14:16	3/23/22 11:18		1.015	6.59	mg/L	0.02030	0.25375		
* Sodium, Dissolved	3/17/22 14:16	3/23/22 12:42		10.15	158	mg/L	0.3045	4.06		
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	3/16/22 11:29	3/17/22 20:34		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	3/16/22 11:29	3/17/22 20:34		1.015	0.00992	mg/L	0.006090	0.01015	J	
* Arsenic, Total	3/16/22 11:29	3/17/22 20:34		1.015	0.00210	mg/L	0.000081	0.000203		
* Barium, Total	3/16/22 11:29	3/17/22 20:34		1.015	0.120	mg/L	0.000102	0.000203		
* Beryllium, Total	3/16/22 11:29	3/17/22 20:34		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	3/16/22 11:29	3/17/22 20:34		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	3/16/22 11:29	3/17/22 20:34		1.015	0.00199	mg/L	0.000203	0.001015		
* Cobalt, Total	3/16/22 11:29	3/17/22 20:34		1.015	0.000381	mg/L	0.000068	0.000203		
* Lead, Total	3/16/22 11:29	3/17/22 20:34		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	3/16/22 11:29	3/17/22 20:34		1.015	0.0973	mg/L	0.000152	0.000203		
* Molybdenum, Total	3/16/22 11:29	3/17/22 20:34		1.015	0.00568	mg/L	0.000102	0.000203		
* Potassium, Total	3/16/22 11:29	3/17/22 20:34		1.015	6.24	mg/L	0.169505	0.5075		

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-1

**Location Code:** WMWMILAP  
**Collected:** 3/15/22 11:10  
**Customer ID:**  
**Submittal Date:** 3/15/22 15:31

**Laboratory ID Number:** BC05470

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/16/22 11:29	3/17/22 20:34		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/16/22 11:29	3/17/22 20:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: ABB</b>							
* Antimony, Dissolved	3/16/22 13:41	3/17/22 18:23		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/16/22 13:41	3/17/22 18:23		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/16/22 13:41	3/17/22 18:23		1.015	0.00175	mg/L	0.000081	0.000203	
* Barium, Dissolved	3/16/22 13:41	3/17/22 18:23		1.015	0.167	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/16/22 13:41	3/17/22 18:23		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/16/22 13:41	3/17/22 18:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/16/22 13:41	3/17/22 18:23		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	3/16/22 13:41	3/17/22 18:23		1.015	0.000867	mg/L	0.000068	0.000203	
* Lead, Dissolved	3/16/22 13:41	3/17/22 18:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/16/22 13:41	3/17/22 18:23		1.015	0.275	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/16/22 13:41	3/17/22 18:23		1.015	0.00505	mg/L	0.000102	0.000203	
* Potassium, Dissolved	3/16/22 13:41	3/17/22 18:23		1.015	6.54	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/16/22 13:41	3/17/22 18:23		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/16/22 13:41	3/17/22 18:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	3/18/22 17:13	3/18/22 22:13		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: ELH</b>							
* Nitrogen, Nitrate/Nitrite	3/23/22 13:14	3/23/22 13:14		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity, Total as CaCO3	3/25/22 09:45	3/25/22 12:15		1	225	mg/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	3/16/22 11:00	3/17/22 13:20		1	897	mg/L		75.8	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
Bicarbonate Alkalinity, (calc.)	3/25/22 09:45	3/25/22 12:15		1	222	mg/L			A
Carbonate Alkalinity, (calc.)	3/25/22 09:45	3/25/22 12:15		1	3.02	mg/L			A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/21/22 11:19	3/21/22 11:19		1	1.75	mg/L	1.00	2	J

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-1

**Location Code:** WMWMILAP  
**Collected:** 3/15/22 11:10  
**Customer ID:**  
**Submittal Date:** 3/15/22 15:31

**Laboratory ID Number:** BC05470

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/21/22 10:54	3/21/22 10:54		1	10.4	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 10:17	3/22/22 10:17		1	0.142	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/24/22 11:49	3/24/22 11:49		25	512	mg/L	15.0	50	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: AWG</b>							
Conductivity	3/15/22 11:05	3/15/22 11:05			1056.93	uS/cm			FA
pH	3/15/22 11:05	3/15/22 11:05			8.71	SU			FA
Temperature	3/15/22 11:05	3/15/22 11:05			16.62	C			FA
Turbidity	3/15/22 11:05	3/15/22 11:05			5.43	NTU			FA

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/15/22 11:10  
**Customer ID:**  
**Delivery Date:** 3/15/22 15:31

**Description:** Miller Ash Pond - MW-1

**Laboratory ID Number:** BC05470

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC05470	Aluminum, Dissolved	mg/L	-0.000880	0.010	0.100	0.0927	0.0986	0.105	0.0850 to 0.115	92.7	70.0 to 130	6.17	20.0
BC05470	Aluminum, Total	mg/L	-0.000449	0.010	0.100	0.106	0.105	0.102	0.0850 to 0.115	96.1	70.0 to 130	0.948	20.0
BC05470	Antimony, Dissolved	mg/L	0.000396	0.00100	0.100	0.0926	0.0929	0.0981	0.0850 to 0.115	92.6	70.0 to 130	0.323	20.0
BC05470	Antimony, Total	mg/L	0.000280	0.00100	0.100	0.0969	0.0964	0.0956	0.0850 to 0.115	96.9	70.0 to 130	0.517	20.0
BC05470	Arsenic, Dissolved	mg/L	-0.000073	0.000176	0.100	0.0989	0.0999	0.103	0.0850 to 0.115	97.2	70.0 to 130	1.01	20.0
BC05470	Arsenic, Total	mg/L	-0.000172	0.000176	0.100	0.0975	0.0961	0.100	0.0850 to 0.115	95.4	70.0 to 130	1.45	20.0
BC05470	Barium, Dissolved	mg/L	0.0000154	0.000200	0.100	0.254	0.259	0.102	0.0850 to 0.115	87.0	70.0 to 130	1.95	20.0
BC05470	Barium, Total	mg/L	-0.0000211	0.000200	0.100	0.214	0.215	0.102	0.0850 to 0.115	94.0	70.0 to 130	0.466	20.0
BC05470	Beryllium, Dissolved	mg/L	0.0000186	0.000880	0.100	0.0967	0.0973	0.0997	0.0850 to 0.115	96.7	70.0 to 130	0.619	20.0
BC05470	Beryllium, Total	mg/L	0.0000224	0.000880	0.100	0.0952	0.0926	0.0983	0.0850 to 0.115	95.2	70.0 to 130	2.77	20.0
BC05470	Boron, Dissolved	mg/L	0.000007	0.0650	1.00	1.09	1.08	1.01	0.850 to 1.15	103	70.0 to 130	0.922	20.0
BC05470	Boron, Total	mg/L	0.000034	0.0650	1.00	1.06	1.06	0.978	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC05470	Cadmium, Dissolved	mg/L	0.000000	0.000147	0.100	0.0926	0.0938	0.103	0.0850 to 0.115	92.6	70.0 to 130	1.29	20.0
BC05470	Cadmium, Total	mg/L	0.000000	0.000147	0.100	0.0940	0.0918	0.102	0.0850 to 0.115	94.0	70.0 to 130	2.37	20.0
BC05470	Calcium, Dissolved	mg/L	-0.0138	0.152	5.00	182	185	4.94	4.25 to 5.75	80.0	70.0 to 130	1.63	20.0
BC05470	Calcium, Total	mg/L	-0.0138	0.152	5.00	108	105	4.61	4.25 to 5.75	198	70.0 to 130	2.82	20.0
BC05683	Chloride	mg/L	0.00672	1.00	10.0	21.3	21.3	10.1	9.00 to 11.0	102	80.0 to 120	0.00	20.0
BC05470	Chromium, Dissolved	mg/L	-0.0000686	0.000440	0.100	0.0933	0.0975	0.106	0.0850 to 0.115	93.3	70.0 to 130	4.40	20.0
BC05470	Chromium, Total	mg/L	-0.0000549	0.000440	0.100	0.0971	0.0950	0.103	0.0850 to 0.115	95.1	70.0 to 130	2.19	20.0
BC05470	Cobalt, Dissolved	mg/L	-0.0000022	0.000147	0.100	0.0980	0.101	0.111	0.0850 to 0.115	97.1	70.0 to 130	3.02	20.0
BC05470	Cobalt, Total	mg/L	-0.0000023	0.000147	0.100	0.100	0.0976	0.106	0.0850 to 0.115	99.6	70.0 to 130	2.43	20.0
BC05682	Fluoride	mg/L	-0.0264	0.125	2.50	4.33	4.33	2.58	2.25 to 2.75	98.8	80.0 to 120	0.00	20.0
BC05470	Iron, Dissolved	mg/L	-0.0004	0.0176	0.2	9.98	9.99	0.203	0.170 to 0.230	35.0	70.0 to 130	0.100	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/15/22 11:10  
**Customer ID:**  
**Delivery Date:** 3/15/22 15:31

**Description:** Miller Ash Pond - MW-1

**Laboratory ID Number:** BC05470

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05470	Iron, Total	mg/L	0.000222	0.0176	0.2	5.20	5.12	0.199	0.170 to 0.230	150	70.0 to 130	1.55	20.0
BC05470	Lead, Dissolved	mg/L	0.0000023	0.000147	0.100	0.0942	0.0969	0.0985	0.0850 to 0.115	94.2	70.0 to 130	2.83	20.0
BC05470	Lead, Total	mg/L	0.0000026	0.000147	0.100	0.0937	0.0939	0.0970	0.0850 to 0.115	93.7	70.0 to 130	0.213	20.0
BC05470	Lithium, Dissolved	mg/L	-0.000216	0.0154	0.200	0.396	0.394	0.192	0.170 to 0.230	101	70.0 to 130	0.506	20.0
BC05470	Lithium, Total	mg/L	-0.000184	0.0154	0.200	0.357	0.350	0.210	0.170 to 0.230	100	70.0 to 130	1.98	20.0
BC05470	Magnesium, Dissolved	mg/L	-0.00563	0.0462	5.00	38.9	39.3	5.03	4.25 to 5.75	92.0	70.0 to 130	1.02	20.0
BC05470	Magnesium, Total	mg/L	0.00456	0.0462	5.00	30.8	30.7	5.21	4.25 to 5.75	94.0	70.0 to 130	0.325	20.0
BC05470	Manganese, Dissolved	mg/L	0.0000155	0.0002	0.100	0.361	0.372	0.108	0.0850 to 0.115	86.0	70.0 to 130	3.00	20.0
BC05470	Manganese, Total	mg/L	0.0000129	0.0002	0.100	0.192	0.190	0.104	0.0850 to 0.115	94.7	70.0 to 130	1.05	20.0
BC05682	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00398	0.00404	0.00394	0.00340 to 0.00460	99.5	70.0 to 130	1.50	20.0
BC05470	Molybdenum, Dissolved	mg/L	0.000003	0.0002	0.100	0.101	0.0995	0.106	0.0850 to 0.115	96.0	70.0 to 130	1.50	20.0
BC05470	Molybdenum, Total	mg/L	0.0000148	0.0002	0.100	0.104	0.102	0.101	0.0850 to 0.115	98.3	70.0 to 130	1.94	20.0
BC05470	Potassium, Dissolved	mg/L	0.000346	0.367	10.0	15.7	16.3	10.6	8.50 to 11.5	91.6	70.0 to 130	3.75	20.0
BC05470	Potassium, Total	mg/L	0.00671	0.367	10.0	16.0	16.0	10.3	8.50 to 11.5	97.6	70.0 to 130	0.00	20.0
BC05470	Selenium, Dissolved	mg/L	0.0000469	0.00100	0.100	0.0952	0.0962	0.109	0.0850 to 0.115	95.2	70.0 to 130	1.04	20.0
BC05470	Selenium, Total	mg/L	0.0000954	0.00100	0.100	0.0956	0.0952	0.103	0.0850 to 0.115	95.6	70.0 to 130	0.419	20.0
BC05470	Silicon, Dissolved	mg/L	0.000265	0.0440	1.00	7.54	7.52	1.03	0.850 to 1.15	95.0	70.0 to 130	0.266	20.0
BC05470	Silicon, Total	mg/L	-0.000225	0.0440	1.00	7.17	7.17	1.01	0.850 to 1.15	105	70.0 to 130	0.00	20.0
BC05470	Sodium, Dissolved	mg/L	0.0394	0.0660	5.00	162	163	4.97	4.25 to 5.75	80.0	70.0 to 130	0.615	20.0
BC05470	Sodium, Total	mg/L	0.0184	0.0660	5.00	169	155	5.19	4.25 to 5.75	320	70.0 to 130	8.64	20.0
BC05682	Sulfate	mg/L	0.232	2.0	800	1570	1550	20.3	18.0 to 22.0	104	80.0 to 120	1.28	20.0
BC05470	Thallium, Dissolved	mg/L	0.0000016	0.000147	0.100	0.0956	0.0971	0.101	0.0850 to 0.115	95.6	70.0 to 130	1.56	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/15/22 11:10  
**Customer ID:**  
**Delivery Date:** 3/15/22 15:31

**Description:** Miller Ash Pond - MW-1

**Laboratory ID Number:** BC05470

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BC05470	Thallium, Total	mg/L	0.0000006	0.000147	0.100	0.0969	0.0963	0.0989	0.0850 to 0.115	96.9	70.0 to 130	0.621	20.0
BC05683	Total Organic Carbon	mg/L	0.310	1.00	10.0	10.6	10.8	9.90		106	80.0 to 120	1.87	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.



## Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/15/22 11:10  
**Customer ID:**  
**Delivery Date:** 3/15/22 15:31

**Description:** Miller Ash Pond - MW-1

**Laboratory ID Number:** BC05470

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05681	Alkalinity, Total as CaCO3	mg/L					23.8	51.1	45.0 to 55.0			1.67	10.0
BC05682	Nitrogen, Nitrate/Nitrite	mg/L as N	0.02	0.200	2.00	2.04	0.021	1.98	1.80 to 2.20	102	90.0 to 110	0.00	15.0
BC05470	Solids, Dissolved	mg/L	0.0000	25.0			882	51.0	40.0 to 60.0			1.69	10.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-6

**Location Code:** WMWMILAP  
**Collected:** 3/16/22 09:05  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05676

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	3/28/22 15:00	3/29/22 10:02		1.015	0.887	mg/L	0.030000	0.1015	
* Calcium, Total	3/28/22 15:00	3/29/22 12:40		20.3	160	mg/L	1.4007	8.12	
* Iron, Total	3/28/22 15:00	3/29/22 12:40		20.3	28.3	mg/L	0.1624	0.812	
* Lithium, Total	3/28/22 15:00	3/29/22 10:02		1.015	0.0731	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/28/22 15:00	3/29/22 10:02		1.015	31.8	mg/L	0.021315	0.406	
Silica, Total (calc.)	3/28/22 15:00	3/29/22 10:02		1	14.5	mg/L			
Silicon, Total	3/28/22 15:00	3/29/22 10:02		1.015	6.79	mg/L	0.02030	0.25375	
* Sodium, Total	3/28/22 15:00	3/29/22 12:40		20.3	51.4	mg/L	0.609	8.12	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	3/28/22 15:00	3/29/22 11:34		1.015	0.894	mg/L	0.030000	0.1015	
* Calcium, Dissolved	3/28/22 15:00	3/29/22 13:30		20.3	156	mg/L	1.4007	8.12	
* Iron, Dissolved	3/28/22 15:00	3/29/22 13:30		20.3	27.0	mg/L	0.1624	0.812	
* Lithium, Dissolved	3/28/22 15:00	3/29/22 11:34		1.015	0.0714	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	3/28/22 15:00	3/29/22 11:34		1.015	31.7	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	3/28/22 15:00	3/29/22 11:34		1	14.6	mg/L			
Silicon, Dissolved	3/28/22 15:00	3/29/22 11:34		1.015	6.80	mg/L	0.02030	0.25375	
* Sodium, Dissolved	3/28/22 15:00	3/29/22 13:30		20.3	49.6	mg/L	0.609	8.12	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	3/21/22 10:00	3/21/22 17:47		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/21/22 10:00	3/21/22 17:47		1.015	0.0128	mg/L	0.006090	0.01015	
* Arsenic, Total	3/21/22 10:00	3/21/22 17:47		1.015	0.000115	mg/L	0.000081	0.000203	J
* Barium, Total	3/21/22 10:00	3/21/22 17:47		1.015	0.0228	mg/L	0.000102	0.000203	
* Beryllium, Total	3/21/22 10:00	3/21/22 17:47		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/21/22 10:00	3/21/22 17:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/21/22 10:00	3/21/22 17:47		1.015	0.000232	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/21/22 10:00	3/21/22 17:47		1.015	0.00531	mg/L	0.000068	0.000203	
* Lead, Total	3/21/22 10:00	3/21/22 17:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/21/22 10:00	3/22/22 12:55		10.15	6.41	mg/L	0.001522	0.00203	
* Molybdenum, Total	3/21/22 10:00	3/21/22 17:47		1.015	0.00145	mg/L	0.000102	0.000203	
* Potassium, Total	3/21/22 10:00	3/21/22 17:47		1.015	6.33	mg/L	0.169505	0.5075	

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-6

**Location Code:** WMWMILAP  
**Collected:** 3/16/22 09:05  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05676

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/21/22 10:00	3/21/22 17:47		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/21/22 10:00	3/21/22 17:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	3/21/22 11:05	3/21/22 15:58		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/21/22 11:05	3/21/22 15:58		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/21/22 11:05	3/21/22 15:58		1.015	0.000107	mg/L	0.000081	0.000203	J
* Barium, Dissolved	3/21/22 11:05	3/21/22 15:58		1.015	0.0240	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/21/22 11:05	3/21/22 15:58		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/21/22 11:05	3/21/22 15:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/21/22 11:05	3/21/22 15:58		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	3/21/22 11:05	3/21/22 15:58		1.015	0.00422	mg/L	0.000068	0.000203	
* Lead, Dissolved	3/21/22 11:05	3/21/22 15:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/21/22 11:05	3/22/22 12:29		10.15	6.56	mg/L	0.001522	0.00203	
* Molybdenum, Dissolved	3/21/22 11:05	3/21/22 15:58		1.015	0.00148	mg/L	0.000102	0.000203	
* Potassium, Dissolved	3/21/22 11:05	3/21/22 15:58		1.015	6.41	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/21/22 11:05	3/21/22 15:58		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/21/22 11:05	3/21/22 15:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	3/18/22 17:13	3/18/22 22:17		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: ELH</b>							
* Nitrogen, Nitrate/Nitrite	3/23/22 13:16	3/23/22 13:16		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity, Total as CaCO3	3/25/22 09:45	3/25/22 12:15		1	44.2	mg/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	3/18/22 10:38	3/21/22 13:52		1	894	mg/L		75.8	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
Bicarbonate Alkalinity, (calc.)	3/25/22 09:45	3/25/22 12:15		1	44.2	mg/L			A
Carbonate Alkalinity, (calc.)	3/25/22 09:45	3/25/22 12:15		1	0.01	mg/L			A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/21/22 01:37	3/21/22 01:37		1	1.25	mg/L	1.00	2	J

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-6

**Location Code:** WMWMILAP  
**Collected:** 3/16/22 09:05  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05676

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/21/22 10:56	3/21/22 10:56		3	33.2	mg/L	1.50	3	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 10:18	3/22/22 10:18		1	0.155	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/24/22 11:50	3/24/22 11:50		32	587	mg/L	19.2	64	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	3/16/22 09:02	3/16/22 09:02			1208.97	uS/cm			FA
pH	3/16/22 09:02	3/16/22 09:02			6.07	SU			FA
Temperature	3/16/22 09:02	3/16/22 09:02			17.04	C			FA
Turbidity	3/16/22 09:02	3/16/22 09:02			3.15	NTU			FA

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/16/22 09:05  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-6

**Laboratory ID Number:** BC05676

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC05686	Aluminum, Dissolved	mg/L	-0.000828	0.010	0.100	0.0960	0.0932	0.103	0.0850 to 0.115	96.0	70.0 to 130	2.96	20.0
BC05685	Aluminum, Total	mg/L	-0.000159	0.010	0.100	0.0991	0.102	0.104	0.0850 to 0.115	99.1	70.0 to 130	2.88	20.0
BC05686	Antimony, Dissolved	mg/L	0.000289	0.00100	0.100	0.0980	0.0954	0.0944	0.0850 to 0.115	98.0	70.0 to 130	2.69	20.0
BC05685	Antimony, Total	mg/L	0.000261	0.00100	0.100	0.0956	0.0957	0.0950	0.0850 to 0.115	95.6	70.0 to 130	0.105	20.0
BC05686	Arsenic, Dissolved	mg/L	0.0000140	0.000176	0.100	0.100	0.0987	0.103	0.0850 to 0.115	99.9	70.0 to 130	1.31	20.0
BC05685	Arsenic, Total	mg/L	0.0000387	0.000176	0.100	0.0998	0.100	0.104	0.0850 to 0.115	98.7	70.0 to 130	0.200	20.0
BC05686	Barium, Dissolved	mg/L	-0.0000261	0.000200	0.100	0.119	0.119	0.102	0.0850 to 0.115	95.7	70.0 to 130	0.00	20.0
BC05685	Barium, Total	mg/L	0.0000059	0.000200	0.100	0.114	0.114	0.0997	0.0850 to 0.115	92.6	70.0 to 130	0.00	20.0
BC05686	Beryllium, Dissolved	mg/L	0.0000422	0.000880	0.100	0.0907	0.0907	0.0905	0.0850 to 0.115	90.7	70.0 to 130	0.00	20.0
BC05685	Beryllium, Total	mg/L	0.0000184	0.000880	0.100	0.0904	0.0897	0.0982	0.0850 to 0.115	90.4	70.0 to 130	0.777	20.0
BC05686	Boron, Dissolved	mg/L	-0.000298	0.0650	1.00	1.06	1.04	0.986	0.850 to 1.15	102	70.0 to 130	1.90	20.0
BC05685	Boron, Total	mg/L	-0.000196	0.0650	1.00	1.04	1.05	0.985	0.850 to 1.15	100	70.0 to 130	0.957	20.0
BC05686	Cadmium, Dissolved	mg/L	0.0000066	0.000147	0.100	0.0967	0.0965	0.104	0.0850 to 0.115	96.7	70.0 to 130	0.207	20.0
BC05685	Cadmium, Total	mg/L	0.0000062	0.000147	0.100	0.0958	0.0958	0.106	0.0850 to 0.115	95.8	70.0 to 130	0.00	20.0
BC05686	Calcium, Dissolved	mg/L	-0.00416	0.152	5.00	180	180	4.83	4.25 to 5.75	80.0	70.0 to 130	0.00	20.0
BC05685	Calcium, Total	mg/L	-0.000866	0.152	5.00	201	197	4.78	4.25 to 5.75	60.0	70.0 to 130	2.01	20.0
BC05683	Chloride	mg/L	0.00672	1.00	10.0	21.3	21.3	10.1	9.00 to 11.0	102	80.0 to 120	0.00	20.0
BC05686	Chromium, Dissolved	mg/L	-0.0000315	0.000440	0.100	0.0950	0.0930	0.103	0.0850 to 0.115	95.0	70.0 to 130	2.13	20.0
BC05685	Chromium, Total	mg/L	0.0000096	0.000440	0.100	0.0943	0.0962	0.102	0.0850 to 0.115	94.1	70.0 to 130	1.99	20.0
BC05686	Cobalt, Dissolved	mg/L	0.0000005	0.000147	0.100	0.0966	0.0951	0.106	0.0850 to 0.115	96.6	70.0 to 130	1.56	20.0
BC05685	Cobalt, Total	mg/L	0.0000005	0.000147	0.100	0.0963	0.0977	0.105	0.0850 to 0.115	96.3	70.0 to 130	1.44	20.0
BC05682	Fluoride	mg/L	-0.0264	0.125	2.50	4.33	4.33	2.58	2.25 to 2.75	98.8	80.0 to 120	0.00	20.0
BC05686	Iron, Dissolved	mg/L	-0.000434	0.0176	0.2	4.98	5.00	0.198	0.170 to 0.230	95.0	70.0 to 130	0.401	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/16/22 09:05  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-6

**Laboratory ID Number:** BC05676

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05685	Iron, Total	mg/L	-0.000366	0.0176	0.2	2.55	2.54	0.196	0.170 to 0.230	90.0	70.0 to 130	0.393	20.0
BC05686	Lead, Dissolved	mg/L	0.0000035	0.000147	0.100	0.0962	0.0973	0.0984	0.0850 to 0.115	96.2	70.0 to 130	1.14	20.0
BC05685	Lead, Total	mg/L	-0.0000022	0.000147	0.100	0.0973	0.0991	0.0989	0.0850 to 0.115	97.3	70.0 to 130	1.83	20.0
BC05686	Lithium, Dissolved	mg/L	-0.000245	0.0154	0.200	0.355	0.355	0.200	0.170 to 0.230	101	70.0 to 130	0.00	20.0
BC05685	Lithium, Total	mg/L	0.0000005	0.0154	0.200	0.287	0.295	0.202	0.170 to 0.230	99.5	70.0 to 130	2.75	20.0
BC05686	Magnesium, Dissolved	mg/L	-0.00632	0.0462	5.00	92.5	91.3	5.13	4.25 to 5.75	114	70.0 to 130	1.31	20.0
BC05685	Magnesium, Total	mg/L	-0.000858	0.0462	5.00	94.0	91.5	5.09	4.25 to 5.75	92.0	70.0 to 130	2.70	20.0
BC05686	Manganese, Dissolved	mg/L	-0.0000044	0.0002	0.100	0.202	0.196	0.105	0.0850 to 0.115	98.0	70.0 to 130	3.02	20.0
BC05685	Manganese, Total	mg/L	0.0000292	0.0002	0.100	0.213	0.220	0.104	0.0850 to 0.115	91.0	70.0 to 130	3.23	20.0
BC05682	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00398	0.00404	0.00394	0.00340 to 0.00460	99.5	70.0 to 130	1.50	20.0
BC05686	Molybdenum, Dissolved	mg/L	0.0000088	0.0002	0.100	0.0961	0.0951	0.0983	0.0850 to 0.115	95.8	70.0 to 130	1.05	20.0
BC05685	Molybdenum, Total	mg/L	0.0000171	0.0002	0.100	0.0980	0.0965	0.100	0.0850 to 0.115	95.7	70.0 to 130	1.54	20.0
BC05686	Potassium, Dissolved	mg/L	0.00485	0.367	10.0	16.5	16.4	10.6	8.50 to 11.5	98.2	70.0 to 130	0.608	20.0
BC05685	Potassium, Total	mg/L	0.00208	0.367	10.0	24.9	25.4	10.5	8.50 to 11.5	92.0	70.0 to 130	1.99	20.0
BC05686	Selenium, Dissolved	mg/L	0.000179	0.00100	0.100	0.100	0.102	0.105	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC05685	Selenium, Total	mg/L	-0.0000256	0.00100	0.100	0.0980	0.0998	0.105	0.0850 to 0.115	98.0	70.0 to 130	1.82	20.0
BC05686	Silicon, Dissolved	mg/L	-0.000753	0.0440	1.00	7.63	7.62	0.991	0.850 to 1.15	104	70.0 to 130	0.131	20.0
BC05685	Silicon, Total	mg/L	-0.000676	0.0440	1.00	11.5	11.5	1.02	0.850 to 1.15	90.0	70.0 to 130	0.00	20.0
BC05686	Sodium, Dissolved	mg/L	0.0216	0.0660	5.00	68.6	68.0	5.04	4.25 to 5.75	96.0	70.0 to 130	0.878	20.0
BC05685	Sodium, Total	mg/L	0.000376	0.0660	5.00	134	131	5.08	4.25 to 5.75	80.0	70.0 to 130	2.26	20.0
BC05682	Sulfate	mg/L	0.232	2.0	800	1570	1550	20.3	18.0 to 22.0	104	80.0 to 120	1.28	20.0
BC05686	Thallium, Dissolved	mg/L	0.0000022	0.000147	0.100	0.100	0.100	0.102	0.0850 to 0.115	100	70.0 to 130	0.00	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/16/22 09:05  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-6

**Laboratory ID Number:** BC05676

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05685	Thallium, Total	mg/L	0.0000003	0.000147	0.100	0.102	0.103	0.102	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC05683	Total Organic Carbon	mg/L	0.310	1.00	10.0	10.6	10.8	9.90		106	80.0 to 120	1.87	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

## Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/16/22 09:05  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-6

**Laboratory ID Number:** BC05676

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05681	Alkalinity, Total as CaCO3	mg/L					23.8	51.1	45.0 to 55.0			1.67	10.0
BC05682	Nitrogen, Nitrate/Nitrite	mg/L as N	0.02	0.200	2.00	2.04	0.021	1.98	1.80 to 2.20	102	90.0 to 110	0.00	15.0
BC05676	Solids, Dissolved	mg/L	1.00	25.0			861	52.0	40.0 to 60.0			3.76	10.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.



# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-6V

**Location Code:** WMWMILAP  
**Collected:** 3/16/22 10:49  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05677

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	3/28/22 15:00	3/29/22 10:03		1.015	0.499	mg/L	0.030000	0.1015	
* Calcium, Total	3/28/22 15:00	3/29/22 12:42		20.3	99.9	mg/L	1.4007	8.12	
* Iron, Total	3/28/22 15:00	3/29/22 10:03		1.015	1.67	mg/L	0.008120	0.0406	
* Lithium, Total	3/28/22 15:00	3/29/22 10:03		1.015	0.0970	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/28/22 15:00	3/29/22 10:03		1.015	29.0	mg/L	0.021315	0.406	
Silica, Total (calc.)	3/28/22 15:00	3/29/22 10:03		1	18.0	mg/L			
Silicon, Total	3/28/22 15:00	3/29/22 10:03		1.015	8.40	mg/L	0.02030	0.25375	
* Sodium, Total	3/28/22 15:00	3/29/22 12:42		20.3	66.2	mg/L	0.609	8.12	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	3/28/22 15:00	3/29/22 11:36		1.015	0.497	mg/L	0.030000	0.1015	
* Calcium, Dissolved	3/28/22 15:00	3/29/22 13:32		20.3	103	mg/L	1.4007	8.12	
* Iron, Dissolved	3/28/22 15:00	3/29/22 11:36		1.015	1.48	mg/L	0.008120	0.0406	
* Lithium, Dissolved	3/28/22 15:00	3/29/22 11:36		1.015	0.0943	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	3/28/22 15:00	3/29/22 11:36		1.015	28.9	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	3/28/22 15:00	3/29/22 11:36		1	17.6	mg/L			
Silicon, Dissolved	3/28/22 15:00	3/29/22 11:36		1.015	8.24	mg/L	0.02030	0.25375	
* Sodium, Dissolved	3/28/22 15:00	3/29/22 13:32		20.3	68.1	mg/L	0.609	8.12	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	3/21/22 10:00	3/21/22 17:51		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/21/22 10:00	3/21/22 17:51		1.015	0.00959	mg/L	0.006090	0.01015	J
* Arsenic, Total	3/21/22 10:00	3/21/22 17:51		1.015	0.00161	mg/L	0.000081	0.000203	
* Barium, Total	3/21/22 10:00	3/21/22 17:51		1.015	0.0281	mg/L	0.000102	0.000203	
* Beryllium, Total	3/21/22 10:00	3/21/22 17:51		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/21/22 10:00	3/21/22 17:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/21/22 10:00	3/21/22 17:51		1.015	0.000222	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/21/22 10:00	3/21/22 17:51		1.015	0.000213	mg/L	0.000068	0.000203	
* Lead, Total	3/21/22 10:00	3/21/22 17:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/21/22 10:00	3/21/22 17:51		1.015	0.508	mg/L	0.000152	0.000203	
* Molybdenum, Total	3/21/22 10:00	3/21/22 17:51		1.015	0.00644	mg/L	0.000102	0.000203	
* Potassium, Total	3/21/22 10:00	3/21/22 17:51		1.015	2.27	mg/L	0.169505	0.5075	

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-6V

**Location Code:** WMWMILAP  
**Collected:** 3/16/22 10:49  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05677

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/21/22 10:00	3/21/22 17:51		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/21/22 10:00	3/21/22 17:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	3/21/22 11:05	3/21/22 16:02		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/21/22 11:05	3/21/22 16:02		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/21/22 11:05	3/21/22 16:02		1.015	0.00116	mg/L	0.000081	0.000203	
* Barium, Dissolved	3/21/22 11:05	3/21/22 16:02		1.015	0.0302	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/21/22 11:05	3/21/22 16:02		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/21/22 11:05	3/21/22 16:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/21/22 11:05	3/21/22 16:02		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	3/21/22 11:05	3/21/22 16:02		1.015	0.000180	mg/L	0.000068	0.000203	J
* Lead, Dissolved	3/21/22 11:05	3/21/22 16:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/21/22 11:05	3/21/22 16:02		1.015	0.509	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/21/22 11:05	3/21/22 16:02		1.015	0.00666	mg/L	0.000102	0.000203	
* Potassium, Dissolved	3/21/22 11:05	3/21/22 16:02		1.015	2.35	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/21/22 11:05	3/21/22 16:02		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/21/22 11:05	3/21/22 16:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	3/18/22 17:13	3/18/22 22:21		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: ELH</b>							
* Nitrogen, Nitrate/Nitrite	3/23/22 13:18	3/23/22 13:18		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity, Total as CaCO3	3/25/22 09:45	3/25/22 12:15		1	222	mg/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	3/18/22 10:38	3/21/22 13:52		1	592	mg/L		50	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
Bicarbonate Alkalinity, (calc.)	3/25/22 09:45	3/25/22 12:15		1	222	mg/L			A
Carbonate Alkalinity, (calc.)	3/25/22 09:45	3/25/22 12:15		1	0.42	mg/L			A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/21/22 11:54	3/21/22 11:54		1	1.41	mg/L	1.00	2	J

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-6V

**Location Code:** WMWMILAP  
**Collected:** 3/16/22 10:49  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05677

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/21/22 10:57	3/21/22 10:57		3	27.7	mg/L	1.50	3	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 10:20	3/22/22 10:20		1	0.145	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/24/22 11:51	3/24/22 11:51		16	266	mg/L	9.6	32	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	3/16/22 10:46	3/16/22 10:46			950.99	uS/cm			FA
pH	3/16/22 10:46	3/16/22 10:46			7.17	SU			FA
Temperature	3/16/22 10:46	3/16/22 10:46			17.43	C			FA
Turbidity	3/16/22 10:46	3/16/22 10:46			1.76	NTU			FA

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/16/22 10:49  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-6V

**Laboratory ID Number:** BC05677

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC05686	Aluminum, Dissolved	mg/L	-0.000828	0.010	0.100	0.0960	0.0932	0.103	0.0850 to 0.115	96.0	70.0 to 130	2.96	20.0
BC05685	Aluminum, Total	mg/L	-0.000159	0.010	0.100	0.0991	0.102	0.104	0.0850 to 0.115	99.1	70.0 to 130	2.88	20.0
BC05686	Antimony, Dissolved	mg/L	0.000289	0.00100	0.100	0.0980	0.0954	0.0944	0.0850 to 0.115	98.0	70.0 to 130	2.69	20.0
BC05685	Antimony, Total	mg/L	0.000261	0.00100	0.100	0.0956	0.0957	0.0950	0.0850 to 0.115	95.6	70.0 to 130	0.105	20.0
BC05686	Arsenic, Dissolved	mg/L	0.0000140	0.000176	0.100	0.100	0.0987	0.103	0.0850 to 0.115	99.9	70.0 to 130	1.31	20.0
BC05685	Arsenic, Total	mg/L	0.0000387	0.000176	0.100	0.0998	0.100	0.104	0.0850 to 0.115	98.7	70.0 to 130	0.200	20.0
BC05686	Barium, Dissolved	mg/L	-0.0000261	0.000200	0.100	0.119	0.119	0.102	0.0850 to 0.115	95.7	70.0 to 130	0.00	20.0
BC05685	Barium, Total	mg/L	0.0000059	0.000200	0.100	0.114	0.114	0.0997	0.0850 to 0.115	92.6	70.0 to 130	0.00	20.0
BC05686	Beryllium, Dissolved	mg/L	0.0000422	0.000880	0.100	0.0907	0.0907	0.0905	0.0850 to 0.115	90.7	70.0 to 130	0.00	20.0
BC05685	Beryllium, Total	mg/L	0.0000184	0.000880	0.100	0.0904	0.0897	0.0982	0.0850 to 0.115	90.4	70.0 to 130	0.777	20.0
BC05686	Boron, Dissolved	mg/L	-0.000298	0.0650	1.00	1.06	1.04	0.986	0.850 to 1.15	102	70.0 to 130	1.90	20.0
BC05685	Boron, Total	mg/L	-0.000196	0.0650	1.00	1.04	1.05	0.985	0.850 to 1.15	100	70.0 to 130	0.957	20.0
BC05686	Cadmium, Dissolved	mg/L	0.0000066	0.000147	0.100	0.0967	0.0965	0.104	0.0850 to 0.115	96.7	70.0 to 130	0.207	20.0
BC05685	Cadmium, Total	mg/L	0.0000062	0.000147	0.100	0.0958	0.0958	0.106	0.0850 to 0.115	95.8	70.0 to 130	0.00	20.0
BC05686	Calcium, Dissolved	mg/L	-0.00416	0.152	5.00	180	180	4.83	4.25 to 5.75	80.0	70.0 to 130	0.00	20.0
BC05685	Calcium, Total	mg/L	-0.000866	0.152	5.00	201	197	4.78	4.25 to 5.75	60.0	70.0 to 130	2.01	20.0
BC05683	Chloride	mg/L	0.00672	1.00	10.0	21.3	21.3	10.1	9.00 to 11.0	102	80.0 to 120	0.00	20.0
BC05686	Chromium, Dissolved	mg/L	-0.0000315	0.000440	0.100	0.0950	0.0930	0.103	0.0850 to 0.115	95.0	70.0 to 130	2.13	20.0
BC05685	Chromium, Total	mg/L	0.0000096	0.000440	0.100	0.0943	0.0962	0.102	0.0850 to 0.115	94.1	70.0 to 130	1.99	20.0
BC05686	Cobalt, Dissolved	mg/L	0.0000005	0.000147	0.100	0.0966	0.0951	0.106	0.0850 to 0.115	96.6	70.0 to 130	1.56	20.0
BC05685	Cobalt, Total	mg/L	0.0000005	0.000147	0.100	0.0963	0.0977	0.105	0.0850 to 0.115	96.3	70.0 to 130	1.44	20.0
BC05682	Fluoride	mg/L	-0.0264	0.125	2.50	4.33	4.33	2.58	2.25 to 2.75	98.8	80.0 to 120	0.00	20.0
BC05686	Iron, Dissolved	mg/L	-0.000434	0.0176	0.2	4.98	5.00	0.198	0.170 to 0.230	95.0	70.0 to 130	0.401	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/16/22 10:49  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-6V

**Laboratory ID Number:** BC05677

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05685	Iron, Total	mg/L	-0.000366	0.0176	0.2	2.55	2.54	0.196	0.170 to 0.230	90.0	70.0 to 130	0.393	20.0
BC05686	Lead, Dissolved	mg/L	0.0000035	0.000147	0.100	0.0962	0.0973	0.0984	0.0850 to 0.115	96.2	70.0 to 130	1.14	20.0
BC05685	Lead, Total	mg/L	-0.0000022	0.000147	0.100	0.0973	0.0991	0.0989	0.0850 to 0.115	97.3	70.0 to 130	1.83	20.0
BC05686	Lithium, Dissolved	mg/L	-0.000245	0.0154	0.200	0.355	0.355	0.200	0.170 to 0.230	101	70.0 to 130	0.00	20.0
BC05685	Lithium, Total	mg/L	0.0000005	0.0154	0.200	0.287	0.295	0.202	0.170 to 0.230	99.5	70.0 to 130	2.75	20.0
BC05686	Magnesium, Dissolved	mg/L	-0.00632	0.0462	5.00	92.5	91.3	5.13	4.25 to 5.75	114	70.0 to 130	1.31	20.0
BC05685	Magnesium, Total	mg/L	-0.000858	0.0462	5.00	94.0	91.5	5.09	4.25 to 5.75	92.0	70.0 to 130	2.70	20.0
BC05686	Manganese, Dissolved	mg/L	-0.0000044	0.0002	0.100	0.202	0.196	0.105	0.0850 to 0.115	98.0	70.0 to 130	3.02	20.0
BC05685	Manganese, Total	mg/L	0.0000292	0.0002	0.100	0.213	0.220	0.104	0.0850 to 0.115	91.0	70.0 to 130	3.23	20.0
BC05682	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00398	0.00404	0.00394	0.00340 to 0.00460	99.5	70.0 to 130	1.50	20.0
BC05686	Molybdenum, Dissolved	mg/L	0.0000088	0.0002	0.100	0.0961	0.0951	0.0983	0.0850 to 0.115	95.8	70.0 to 130	1.05	20.0
BC05685	Molybdenum, Total	mg/L	0.0000171	0.0002	0.100	0.0980	0.0965	0.100	0.0850 to 0.115	95.7	70.0 to 130	1.54	20.0
BC05686	Potassium, Dissolved	mg/L	0.00485	0.367	10.0	16.5	16.4	10.6	8.50 to 11.5	98.2	70.0 to 130	0.608	20.0
BC05685	Potassium, Total	mg/L	0.00208	0.367	10.0	24.9	25.4	10.5	8.50 to 11.5	92.0	70.0 to 130	1.99	20.0
BC05686	Selenium, Dissolved	mg/L	0.000179	0.00100	0.100	0.100	0.102	0.105	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC05685	Selenium, Total	mg/L	-0.0000256	0.00100	0.100	0.0980	0.0998	0.105	0.0850 to 0.115	98.0	70.0 to 130	1.82	20.0
BC05686	Silicon, Dissolved	mg/L	-0.000753	0.0440	1.00	7.63	7.62	0.991	0.850 to 1.15	104	70.0 to 130	0.131	20.0
BC05685	Silicon, Total	mg/L	-0.000676	0.0440	1.00	11.5	11.5	1.02	0.850 to 1.15	90.0	70.0 to 130	0.00	20.0
BC05686	Sodium, Dissolved	mg/L	0.0216	0.0660	5.00	68.6	68.0	5.04	4.25 to 5.75	96.0	70.0 to 130	0.878	20.0
BC05685	Sodium, Total	mg/L	0.000376	0.0660	5.00	134	131	5.08	4.25 to 5.75	80.0	70.0 to 130	2.26	20.0
BC05682	Sulfate	mg/L	0.232	2.0	800	1570	1550	20.3	18.0 to 22.0	104	80.0 to 120	1.28	20.0
BC05686	Thallium, Dissolved	mg/L	0.0000022	0.000147	0.100	0.100	0.100	0.102	0.0850 to 0.115	100	70.0 to 130	0.00	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/16/22 10:49  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-6V

**Laboratory ID Number:** BC05677

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05685	Thallium, Total	mg/L	0.0000003	0.000147	0.100	0.102	0.103	0.102	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC05683	Total Organic Carbon	mg/L	0.310	1.00	10.0	10.6	10.8	9.90		106	80.0 to 120	1.87	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

## Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/16/22 10:49  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-6V

**Laboratory ID Number:** BC05677

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05681	Alkalinity, Total as CaCO3	mg/L					23.8	51.1	45.0 to 55.0			1.67	10.0
BC05682	Nitrogen, Nitrate/Nitrite	mg/L as N	0.02	0.200	2.00	2.04	0.021	1.98	1.80 to 2.20	102	90.0 to 110	0.00	15.0
BC05695	Solids, Dissolved	mg/L	1.00	25.0			386	52.0	40.0 to 60.0			1.29	10.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-3S

**Location Code:** WMWMILAP  
**Collected:** 3/16/22 12:42  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05678

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	3/28/22 15:00	3/29/22 10:05		1.015	0.276	mg/L	0.030000	0.1015	
* Calcium, Total	3/28/22 15:00	3/29/22 10:05		1.015	5.38	mg/L	0.070035	0.406	
* Iron, Total	3/28/22 15:00	3/29/22 10:05		1.015	0.0198	mg/L	0.008120	0.0406	J
* Lithium, Total	3/28/22 15:00	3/29/22 10:05		1.015	0.271	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/28/22 15:00	3/29/22 10:05		1.015	1.93	mg/L	0.021315	0.406	
Silica, Total (calc.)	3/28/22 15:00	3/29/22 10:05		1	10.1	mg/L			
Silicon, Total	3/28/22 15:00	3/29/22 10:05		1.015	4.71	mg/L	0.02030	0.25375	
* Sodium, Total	3/28/22 15:00	3/29/22 12:44		20.3	251	mg/L	0.609	8.12	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	3/28/22 15:00	3/29/22 11:38		1.015	0.273	mg/L	0.030000	0.1015	
* Calcium, Dissolved	3/28/22 15:00	3/29/22 11:38		1.015	5.25	mg/L	0.070035	0.406	
* Iron, Dissolved	3/28/22 15:00	3/29/22 11:38		1.015	0.0146	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	3/28/22 15:00	3/29/22 11:38		1.015	0.262	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	3/28/22 15:00	3/29/22 11:38		1.015	1.91	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	3/28/22 15:00	3/29/22 11:38		1	9.84	mg/L			
Silicon, Dissolved	3/28/22 15:00	3/29/22 11:38		1.015	4.60	mg/L	0.02030	0.25375	
* Sodium, Dissolved	3/28/22 15:00	3/29/22 13:34		20.3	260	mg/L	0.609	8.12	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	3/21/22 10:00	3/21/22 17:54		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/21/22 10:00	3/21/22 17:54		1.015	0.0170	mg/L	0.006090	0.01015	
* Arsenic, Total	3/21/22 10:00	3/21/22 17:54		1.015	0.000737	mg/L	0.000081	0.000203	
* Barium, Total	3/21/22 10:00	3/21/22 17:54		1.015	0.149	mg/L	0.000102	0.000203	
* Beryllium, Total	3/21/22 10:00	3/21/22 17:54		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/21/22 10:00	3/21/22 17:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/21/22 10:00	3/21/22 17:54		1.015	0.000339	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/21/22 10:00	3/21/22 17:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	3/21/22 10:00	3/21/22 17:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/21/22 10:00	3/21/22 17:54		1.015	0.00588	mg/L	0.000152	0.000203	
* Molybdenum, Total	3/21/22 10:00	3/21/22 17:54		1.015	0.0488	mg/L	0.000102	0.000203	
* Potassium, Total	3/21/22 10:00	3/21/22 17:54		1.015	3.77	mg/L	0.169505	0.5075	

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.



# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-3S

**Location Code:** WMWMILAP  
**Collected:** 3/16/22 12:42  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05678

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/21/22 10:00	3/21/22 17:54		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/21/22 10:00	3/21/22 17:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	3/21/22 11:05	3/21/22 16:05		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/21/22 11:05	3/21/22 16:05		1.015	0.0121	mg/L	0.006090	0.01015	
* Arsenic, Dissolved	3/21/22 11:05	3/21/22 16:05		1.015	0.000674	mg/L	0.000081	0.000203	
* Barium, Dissolved	3/21/22 11:05	3/21/22 16:05		1.015	0.154	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/21/22 11:05	3/21/22 16:05		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/21/22 11:05	3/21/22 16:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/21/22 11:05	3/21/22 16:05		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	3/21/22 11:05	3/21/22 16:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	3/21/22 11:05	3/21/22 16:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/21/22 11:05	3/21/22 16:05		1.015	0.00546	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/21/22 11:05	3/21/22 16:05		1.015	0.0494	mg/L	0.000102	0.000203	
* Potassium, Dissolved	3/21/22 11:05	3/21/22 16:05		1.015	3.67	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/21/22 11:05	3/21/22 16:05		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/21/22 11:05	3/21/22 16:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	3/18/22 17:13	3/18/22 22:25		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: ELH</b>							
* Nitrogen, Nitrate/Nitrite	3/23/22 13:20	3/23/22 13:20		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity, Total as CaCO3	3/25/22 09:45	3/25/22 12:15		1	252	mg/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	3/18/22 10:38	3/21/22 13:52		1	698	mg/L		50	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
Bicarbonate Alkalinity, (calc.)	3/25/22 09:45	3/25/22 12:15		1	227	mg/L			A
Carbonate Alkalinity, (calc.)	3/25/22 09:45	3/25/22 12:15		1	24.5	mg/L			A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/21/22 12:09	3/21/22 12:09		1	2.46	mg/L	1.00	2	

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-3S

**Location Code:** WMWMILAP  
**Collected:** 3/16/22 12:42  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05678

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/21/22 10:58	3/21/22 10:58		5	79.4	mg/L	2.50	5	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 10:21	3/22/22 10:21		1	0.309	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/24/22 11:53	3/24/22 11:53		16	227	mg/L	9.6	32	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	3/16/22 12:39	3/16/22 12:39			1141.44	uS/cm			FA
pH	3/16/22 12:39	3/16/22 12:39			9.05	SU			FA
Temperature	3/16/22 12:39	3/16/22 12:39			16.91	C			FA
Turbidity	3/16/22 12:39	3/16/22 12:39			0.23	NTU			FA

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/16/22 12:42  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-3S

**Laboratory ID Number:** BC05678

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC05686	Aluminum, Dissolved	mg/L	-0.000828	0.010	0.100	0.0960	0.0932	0.103	0.0850 to 0.115	96.0	70.0 to 130	2.96	20.0
BC05685	Aluminum, Total	mg/L	-0.000159	0.010	0.100	0.0991	0.102	0.104	0.0850 to 0.115	99.1	70.0 to 130	2.88	20.0
BC05686	Antimony, Dissolved	mg/L	0.000289	0.00100	0.100	0.0980	0.0954	0.0944	0.0850 to 0.115	98.0	70.0 to 130	2.69	20.0
BC05685	Antimony, Total	mg/L	0.000261	0.00100	0.100	0.0956	0.0957	0.0950	0.0850 to 0.115	95.6	70.0 to 130	0.105	20.0
BC05686	Arsenic, Dissolved	mg/L	0.0000140	0.000176	0.100	0.100	0.0987	0.103	0.0850 to 0.115	99.9	70.0 to 130	1.31	20.0
BC05685	Arsenic, Total	mg/L	0.0000387	0.000176	0.100	0.0998	0.100	0.104	0.0850 to 0.115	98.7	70.0 to 130	0.200	20.0
BC05686	Barium, Dissolved	mg/L	-0.0000261	0.000200	0.100	0.119	0.119	0.102	0.0850 to 0.115	95.7	70.0 to 130	0.00	20.0
BC05685	Barium, Total	mg/L	0.0000059	0.000200	0.100	0.114	0.114	0.0997	0.0850 to 0.115	92.6	70.0 to 130	0.00	20.0
BC05686	Beryllium, Dissolved	mg/L	0.0000422	0.000880	0.100	0.0907	0.0907	0.0905	0.0850 to 0.115	90.7	70.0 to 130	0.00	20.0
BC05685	Beryllium, Total	mg/L	0.0000184	0.000880	0.100	0.0904	0.0897	0.0982	0.0850 to 0.115	90.4	70.0 to 130	0.777	20.0
BC05686	Boron, Dissolved	mg/L	-0.000298	0.0650	1.00	1.06	1.04	0.986	0.850 to 1.15	102	70.0 to 130	1.90	20.0
BC05685	Boron, Total	mg/L	-0.000196	0.0650	1.00	1.04	1.05	0.985	0.850 to 1.15	100	70.0 to 130	0.957	20.0
BC05686	Cadmium, Dissolved	mg/L	0.0000066	0.000147	0.100	0.0967	0.0965	0.104	0.0850 to 0.115	96.7	70.0 to 130	0.207	20.0
BC05685	Cadmium, Total	mg/L	0.0000062	0.000147	0.100	0.0958	0.0958	0.106	0.0850 to 0.115	95.8	70.0 to 130	0.00	20.0
BC05686	Calcium, Dissolved	mg/L	-0.00416	0.152	5.00	180	180	4.83	4.25 to 5.75	80.0	70.0 to 130	0.00	20.0
BC05685	Calcium, Total	mg/L	-0.000866	0.152	5.00	201	197	4.78	4.25 to 5.75	60.0	70.0 to 130	2.01	20.0
BC05683	Chloride	mg/L	0.00672	1.00	10.0	21.3	21.3	10.1	9.00 to 11.0	102	80.0 to 120	0.00	20.0
BC05686	Chromium, Dissolved	mg/L	-0.0000315	0.000440	0.100	0.0950	0.0930	0.103	0.0850 to 0.115	95.0	70.0 to 130	2.13	20.0
BC05685	Chromium, Total	mg/L	0.0000096	0.000440	0.100	0.0943	0.0962	0.102	0.0850 to 0.115	94.1	70.0 to 130	1.99	20.0
BC05686	Cobalt, Dissolved	mg/L	0.0000005	0.000147	0.100	0.0966	0.0951	0.106	0.0850 to 0.115	96.6	70.0 to 130	1.56	20.0
BC05685	Cobalt, Total	mg/L	0.0000005	0.000147	0.100	0.0963	0.0977	0.105	0.0850 to 0.115	96.3	70.0 to 130	1.44	20.0
BC05682	Fluoride	mg/L	-0.0264	0.125	2.50	4.33	4.33	2.58	2.25 to 2.75	98.8	80.0 to 120	0.00	20.0
BC05686	Iron, Dissolved	mg/L	-0.000434	0.0176	0.2	4.98	5.00	0.198	0.170 to 0.230	95.0	70.0 to 130	0.401	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/16/22 12:42  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-3S

**Laboratory ID Number:** BC05678

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05685	Iron, Total	mg/L	-0.000366	0.0176	0.2	2.55	2.54	0.196	0.170 to 0.230	90.0	70.0 to 130	0.393	20.0
BC05686	Lead, Dissolved	mg/L	0.0000035	0.000147	0.100	0.0962	0.0973	0.0984	0.0850 to 0.115	96.2	70.0 to 130	1.14	20.0
BC05685	Lead, Total	mg/L	-0.0000022	0.000147	0.100	0.0973	0.0991	0.0989	0.0850 to 0.115	97.3	70.0 to 130	1.83	20.0
BC05686	Lithium, Dissolved	mg/L	-0.000245	0.0154	0.200	0.355	0.355	0.200	0.170 to 0.230	101	70.0 to 130	0.00	20.0
BC05685	Lithium, Total	mg/L	0.0000005	0.0154	0.200	0.287	0.295	0.202	0.170 to 0.230	99.5	70.0 to 130	2.75	20.0
BC05686	Magnesium, Dissolved	mg/L	-0.00632	0.0462	5.00	92.5	91.3	5.13	4.25 to 5.75	114	70.0 to 130	1.31	20.0
BC05685	Magnesium, Total	mg/L	-0.000858	0.0462	5.00	94.0	91.5	5.09	4.25 to 5.75	92.0	70.0 to 130	2.70	20.0
BC05686	Manganese, Dissolved	mg/L	-0.0000044	0.0002	0.100	0.202	0.196	0.105	0.0850 to 0.115	98.0	70.0 to 130	3.02	20.0
BC05685	Manganese, Total	mg/L	0.0000292	0.0002	0.100	0.213	0.220	0.104	0.0850 to 0.115	91.0	70.0 to 130	3.23	20.0
BC05682	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00398	0.00404	0.00394	0.00340 to 0.00460	99.5	70.0 to 130	1.50	20.0
BC05686	Molybdenum, Dissolved	mg/L	0.0000088	0.0002	0.100	0.0961	0.0951	0.0983	0.0850 to 0.115	95.8	70.0 to 130	1.05	20.0
BC05685	Molybdenum, Total	mg/L	0.0000171	0.0002	0.100	0.0980	0.0965	0.100	0.0850 to 0.115	95.7	70.0 to 130	1.54	20.0
BC05686	Potassium, Dissolved	mg/L	0.00485	0.367	10.0	16.5	16.4	10.6	8.50 to 11.5	98.2	70.0 to 130	0.608	20.0
BC05685	Potassium, Total	mg/L	0.00208	0.367	10.0	24.9	25.4	10.5	8.50 to 11.5	92.0	70.0 to 130	1.99	20.0
BC05686	Selenium, Dissolved	mg/L	0.000179	0.00100	0.100	0.100	0.102	0.105	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC05685	Selenium, Total	mg/L	-0.0000256	0.00100	0.100	0.0980	0.0998	0.105	0.0850 to 0.115	98.0	70.0 to 130	1.82	20.0
BC05686	Silicon, Dissolved	mg/L	-0.000753	0.0440	1.00	7.63	7.62	0.991	0.850 to 1.15	104	70.0 to 130	0.131	20.0
BC05685	Silicon, Total	mg/L	-0.000676	0.0440	1.00	11.5	11.5	1.02	0.850 to 1.15	90.0	70.0 to 130	0.00	20.0
BC05686	Sodium, Dissolved	mg/L	0.0216	0.0660	5.00	68.6	68.0	5.04	4.25 to 5.75	96.0	70.0 to 130	0.878	20.0
BC05685	Sodium, Total	mg/L	0.000376	0.0660	5.00	134	131	5.08	4.25 to 5.75	80.0	70.0 to 130	2.26	20.0
BC05682	Sulfate	mg/L	0.232	2.0	800	1570	1550	20.3	18.0 to 22.0	104	80.0 to 120	1.28	20.0
BC05686	Thallium, Dissolved	mg/L	0.0000022	0.000147	0.100	0.100	0.100	0.102	0.0850 to 0.115	100	70.0 to 130	0.00	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/16/22 12:42  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-3S

**Laboratory ID Number:** BC05678

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BC05685	Thallium, Total	mg/L	0.0000003	0.000147	0.100	0.102	0.103	0.102	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC05683	Total Organic Carbon	mg/L	0.310	1.00	10.0	10.6	10.8	9.90		106	80.0 to 120	1.87	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

## Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/16/22 12:42  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-3S

**Laboratory ID Number:** BC05678

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05681	Alkalinity, Total as CaCO3	mg/L					23.8	51.1	45.0 to 55.0			1.67	10.0
BC05682	Nitrogen, Nitrate/Nitrite	mg/L as N	0.02	0.200	2.00	2.04	0.021	1.98	1.80 to 2.20	102	90.0 to 110	0.00	15.0
BC05695	Solids, Dissolved	mg/L	1.00	25.0			386	52.0	40.0 to 60.0			1.29	10.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond Field Blank-4

**Location Code:** WMWMILAPFB  
**Collected:** 3/16/22 13:25  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05679

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	3/28/22 15:00	3/29/22 10:07		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	3/28/22 15:00	3/29/22 10:07		1.015	Not Detected	mg/L	0.070035	0.406	U	
* Iron, Total	3/28/22 15:00	3/29/22 10:07		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	3/28/22 15:00	3/29/22 10:07		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	3/28/22 15:00	3/29/22 10:07		1.015	Not Detected	mg/L	0.021315	0.406	U	
Silica, Total (calc.)	3/28/22 15:00	3/29/22 10:07		1	Not Detected	mg/L				
Silicon, Total	3/28/22 15:00	3/29/22 10:07		1.015	Not Detected	mg/L	0.02030	0.25375	U	
* Sodium, Total	3/28/22 15:00	3/29/22 10:07		1.015	0.0495	mg/L	0.03045	0.406	J	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	3/21/22 10:00	3/21/22 17:58		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	3/21/22 10:00	3/21/22 17:58		1.015	Not Detected	mg/L	0.006090	0.01015	U	
* Arsenic, Total	3/21/22 10:00	3/21/22 17:58		1.015	Not Detected	mg/L	0.000081	0.000203	U	
* Barium, Total	3/21/22 10:00	3/21/22 17:58		1.015	Not Detected	mg/L	0.000102	0.000203	U	
* Beryllium, Total	3/21/22 10:00	3/21/22 17:58		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	3/21/22 10:00	3/21/22 17:58		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	3/21/22 10:00	3/21/22 17:58		1.015	0.000259	mg/L	0.000203	0.001015	J	
* Cobalt, Total	3/21/22 10:00	3/21/22 17:58		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	3/21/22 10:00	3/21/22 17:58		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	3/21/22 10:00	3/21/22 17:58		1.015	Not Detected	mg/L	0.000152	0.000203	U	
* Molybdenum, Total	3/21/22 10:00	3/21/22 17:58		1.015	Not Detected	mg/L	0.000102	0.000203	U	
* Potassium, Total	3/21/22 10:00	3/21/22 17:58		1.015	Not Detected	mg/L	0.169505	0.5075	U	
* Selenium, Total	3/21/22 10:00	3/21/22 17:58		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	3/21/22 10:00	3/21/22 17:58		1.015	Not Detected	mg/L	0.000068	0.000203	U	
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>								
* Mercury, Total by CVAA	3/18/22 17:13	3/18/22 22:29		1	Not Detected	mg/L	0.0003	0.0005	U	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: ELH</b>								
* Nitrogen, Nitrate/Nitrite	3/23/22 13:22	3/23/22 13:22		1	Not Detected	mg/L as N	0.20	0.3	U	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>								
* Solids, Dissolved	3/18/22 10:38	3/21/22 13:52		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:** 3/16/22 13:25  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05679

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/21/22 12:26	3/21/22 12:26		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/21/22 10:59	3/21/22 10:59		1	Not Detected	mg/L	0.50	1	U
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 10:23	3/22/22 10:23		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/24/22 11:54	3/24/22 11:54		1	Not Detected	mg/L	0.6	2	U

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

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**Comments:**



# Batch QC Summary

**Customer Account:** WMWMILAPFB  
**Sample Date:** 3/16/22 13:25  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond Field Blank-4

**Laboratory ID Number:** BC05679

Sample	Analysis	Units	MB					Standard		Rec			Prec Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BC05685	Aluminum, Total	mg/L	-0.000159	0.010	0.100	0.0991	0.102	0.104	0.0850 to 0.115	99.1	70.0 to 130	2.88	20.0
BC05685	Antimony, Total	mg/L	0.000261	0.00100	0.100	0.0956	0.0957	0.0950	0.0850 to 0.115	95.6	70.0 to 130	0.105	20.0
BC05685	Arsenic, Total	mg/L	0.0000387	0.000176	0.100	0.0998	0.100	0.104	0.0850 to 0.115	98.7	70.0 to 130	0.200	20.0
BC05685	Barium, Total	mg/L	0.0000059	0.000200	0.100	0.114	0.114	0.0997	0.0850 to 0.115	92.6	70.0 to 130	0.00	20.0
BC05685	Beryllium, Total	mg/L	0.0000184	0.000880	0.100	0.0904	0.0897	0.0982	0.0850 to 0.115	90.4	70.0 to 130	0.777	20.0
BC05685	Boron, Total	mg/L	-0.000196	0.0650	1.00	1.04	1.05	0.985	0.850 to 1.15	100	70.0 to 130	0.957	20.0
BC05685	Cadmium, Total	mg/L	0.0000062	0.000147	0.100	0.0958	0.0958	0.106	0.0850 to 0.115	95.8	70.0 to 130	0.00	20.0
BC05685	Calcium, Total	mg/L	-0.000866	0.152	5.00	201	197	4.78	4.25 to 5.75	60.0	70.0 to 130	2.01	20.0
BC05683	Chloride	mg/L	0.00672	1.00	10.0	21.3	21.3	10.1	9.00 to 11.0	102	80.0 to 120	0.00	20.0
BC05685	Chromium, Total	mg/L	0.0000096	0.000440	0.100	0.0943	0.0962	0.102	0.0850 to 0.115	94.1	70.0 to 130	1.99	20.0
BC05685	Cobalt, Total	mg/L	0.0000005	0.000147	0.100	0.0963	0.0977	0.105	0.0850 to 0.115	96.3	70.0 to 130	1.44	20.0
BC05682	Fluoride	mg/L	-0.0264	0.125	2.50	4.33	4.33	2.58	2.25 to 2.75	98.8	80.0 to 120	0.00	20.0
BC05685	Iron, Total	mg/L	-0.000366	0.0176	0.2	2.55	2.54	0.196	0.170 to 0.230	90.0	70.0 to 130	0.393	20.0
BC05685	Lead, Total	mg/L	-0.0000022	0.000147	0.100	0.0973	0.0991	0.0989	0.0850 to 0.115	97.3	70.0 to 130	1.83	20.0
BC05685	Lithium, Total	mg/L	0.0000005	0.0154	0.200	0.287	0.295	0.202	0.170 to 0.230	99.5	70.0 to 130	2.75	20.0
BC05685	Magnesium, Total	mg/L	-0.000858	0.0462	5.00	94.0	91.5	5.09	4.25 to 5.75	92.0	70.0 to 130	2.70	20.0
BC05685	Manganese, Total	mg/L	0.0000292	0.0002	0.100	0.213	0.220	0.104	0.0850 to 0.115	91.0	70.0 to 130	3.23	20.0
BC05682	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00398	0.00404	0.00394	0.00340 to 0.00460	99.5	70.0 to 130	1.50	20.0
BC05685	Molybdenum, Total	mg/L	0.0000171	0.0002	0.100	0.0980	0.0965	0.100	0.0850 to 0.115	95.7	70.0 to 130	1.54	20.0
BC05685	Potassium, Total	mg/L	0.00208	0.367	10.0	24.9	25.4	10.5	8.50 to 11.5	92.0	70.0 to 130	1.99	20.0
BC05685	Selenium, Total	mg/L	-0.0000256	0.00100	0.100	0.0980	0.0998	0.105	0.0850 to 0.115	98.0	70.0 to 130	1.82	20.0
BC05685	Silicon, Total	mg/L	-0.000676	0.0440	1.00	11.5	11.5	1.02	0.850 to 1.15	90.0	70.0 to 130	0.00	20.0
BC05685	Sodium, Total	mg/L	0.000376	0.0660	5.00	134	131	5.08	4.25 to 5.75	80.0	70.0 to 130	2.26	20.0

**Comments:**

# Batch QC Summary

**Customer Account:** WMWMILAPFB

**Sample Date:** 3/16/22 13:25

**Customer ID:**

**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond Field Blank-4

**Laboratory ID Number:** BC05679

Sample	Analysis	Units	MB	MB				Standard	Standard Limit	Rec		Prec Limit	
				Limit	Spike	MS	MSD			Rec	Limit		
BC05682	Sulfate	mg/L	0.232	2.0	800	1570	1550	20.3	18.0 to 22.0	104	80.0 to 120	1.28	20.0
BC05685	Thallium, Total	mg/L	0.0000003	0.000147	0.100	0.102	0.103	0.102	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC05683	Total Organic Carbon	mg/L	0.310	1.00	10.0	10.6	10.8	9.90		106	80.0 to 120	1.87	20.0

**Comments:**

## Batch QC Summary

**Customer Account:** WMWMILAPFB

**Sample Date:** 3/16/22 13:25

**Customer ID:**

**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond Field Blank-4

**Laboratory ID Number:** BC05679

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05682	Nitrogen, Nitrate/Nitrite	mg/L as N	0.02	0.200	2.00	2.04	0.021	1.98	1.80 to 2.20	102	90.0 to 110	0.00	15.0
BC05695	Solids, Dissolved	mg/L	1.00	25.0			386	52.0	40.0 to 60.0			1.29	10.0

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**Comments:**

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-3D

**Location Code:** WMWMILAP  
**Collected:** 3/16/22 14:00  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05680

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	3/28/22 15:00	3/29/22 10:09		1.015	0.428	mg/L	0.030000	0.1015	
* Calcium, Total	3/28/22 15:00	3/29/22 12:46		20.3	116	mg/L	1.4007	8.12	
* Iron, Total	3/28/22 15:00	3/29/22 10:09		1.015	2.33	mg/L	0.008120	0.0406	
* Lithium, Total	3/28/22 15:00	3/29/22 10:09		1.015	0.0914	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/28/22 15:00	3/29/22 10:09		1.015	28.0	mg/L	0.021315	0.406	
Silica, Total (calc.)	3/28/22 15:00	3/29/22 10:09		1	11.4	mg/L			
Silicon, Total	3/28/22 15:00	3/29/22 10:09		1.015	5.33	mg/L	0.02030	0.25375	
* Sodium, Total	3/28/22 15:00	3/29/22 12:46		20.3	74.3	mg/L	0.609	8.12	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	3/28/22 15:00	3/29/22 11:40		1.015	0.431	mg/L	0.030000	0.1015	
* Calcium, Dissolved	3/28/22 15:00	3/29/22 13:36		20.3	117	mg/L	1.4007	8.12	
* Iron, Dissolved	3/28/22 15:00	3/29/22 11:40		1.015	2.00	mg/L	0.008120	0.0406	
* Lithium, Dissolved	3/28/22 15:00	3/29/22 11:40		1.015	0.0902	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	3/28/22 15:00	3/29/22 11:40		1.015	27.9	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	3/28/22 15:00	3/29/22 11:40		1	11.3	mg/L			
Silicon, Dissolved	3/28/22 15:00	3/29/22 11:40		1.015	5.28	mg/L	0.02030	0.25375	
* Sodium, Dissolved	3/28/22 15:00	3/29/22 13:36		20.3	75.8	mg/L	0.609	8.12	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	3/21/22 10:00	3/21/22 18:01		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/21/22 10:00	3/21/22 18:01		1.015	0.0205	mg/L	0.006090	0.01015	
* Arsenic, Total	3/21/22 10:00	3/21/22 18:01		1.015	0.0107	mg/L	0.000081	0.000203	
* Barium, Total	3/21/22 10:00	3/21/22 18:01		1.015	0.0247	mg/L	0.000102	0.000203	
* Beryllium, Total	3/21/22 10:00	3/21/22 18:01		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/21/22 10:00	3/21/22 18:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/21/22 10:00	3/21/22 18:01		1.015	0.000327	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/21/22 10:00	3/21/22 18:01		1.015	0.00378	mg/L	0.000068	0.000203	
* Lead, Total	3/21/22 10:00	3/21/22 18:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/21/22 10:00	3/21/22 18:01		1.015	1.24	mg/L	0.000152	0.000203	
* Molybdenum, Total	3/21/22 10:00	3/21/22 18:01		1.015	0.0266	mg/L	0.000102	0.000203	
* Potassium, Total	3/21/22 10:00	3/21/22 18:01		1.015	6.03	mg/L	0.169505	0.5075	

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-3D

**Location Code:** WMWMILAP  
**Collected:** 3/16/22 14:00  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05680

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/21/22 10:00	3/21/22 18:01		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/21/22 10:00	3/21/22 18:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	3/21/22 11:05	3/21/22 16:09		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/21/22 11:05	3/21/22 16:09		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/21/22 11:05	3/21/22 16:09		1.015	0.00936	mg/L	0.000081	0.000203	
* Barium, Dissolved	3/21/22 11:05	3/21/22 16:09		1.015	0.0243	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/21/22 11:05	3/21/22 16:09		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/21/22 11:05	3/21/22 16:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/21/22 11:05	3/21/22 16:09		1.015	0.000272	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	3/21/22 11:05	3/21/22 16:09		1.015	0.00345	mg/L	0.000068	0.000203	
* Lead, Dissolved	3/21/22 11:05	3/21/22 16:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/21/22 11:05	3/21/22 16:09		1.015	1.19	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/21/22 11:05	3/21/22 16:09		1.015	0.0261	mg/L	0.000102	0.000203	
* Potassium, Dissolved	3/21/22 11:05	3/21/22 16:09		1.015	5.96	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/21/22 11:05	3/21/22 16:09		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/21/22 11:05	3/21/22 16:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	3/18/22 17:13	3/18/22 22:33		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: ELH</b>							
* Nitrogen, Nitrate/Nitrite	3/23/22 13:24	3/23/22 13:24		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity, Total as CaCO3	3/25/22 09:45	3/25/22 12:15		1	217	mg/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	3/18/22 10:38	3/21/22 13:52		1	698	mg/L		50	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
Bicarbonate Alkalinity, (calc.)	3/25/22 09:45	3/25/22 12:15		1	216	mg/L			A
Carbonate Alkalinity, (calc.)	3/25/22 09:45	3/25/22 12:15		1	1.04	mg/L			A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/21/22 12:41	3/21/22 12:41		1	2.08	mg/L	1.00	2	

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-3D

**Location Code:** WMWMILAP  
**Collected:** 3/16/22 14:00  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05680

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/21/22 11:00	3/21/22 11:00		1	15.0	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 10:24	3/22/22 10:24		1	0.388	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/24/22 11:55	3/24/22 11:55		20	352	mg/L	12.0	40	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	3/16/22 13:56	3/16/22 13:56			1029.04	uS/cm			FA
pH	3/16/22 13:56	3/16/22 13:56			7.04	SU			FA
Temperature	3/16/22 13:56	3/16/22 13:56			17.55	C			FA
Turbidity	3/16/22 13:56	3/16/22 13:56			3.78	NTU			FA

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/16/22 14:00  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-3D

**Laboratory ID Number:** BC05680

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC05686	Aluminum, Dissolved	mg/L	-0.000828	0.010	0.100	0.0960	0.0932	0.103	0.0850 to 0.115	96.0	70.0 to 130	2.96	20.0
BC05685	Aluminum, Total	mg/L	-0.000159	0.010	0.100	0.0991	0.102	0.104	0.0850 to 0.115	99.1	70.0 to 130	2.88	20.0
BC05686	Antimony, Dissolved	mg/L	0.000289	0.00100	0.100	0.0980	0.0954	0.0944	0.0850 to 0.115	98.0	70.0 to 130	2.69	20.0
BC05685	Antimony, Total	mg/L	0.000261	0.00100	0.100	0.0956	0.0957	0.0950	0.0850 to 0.115	95.6	70.0 to 130	0.105	20.0
BC05686	Arsenic, Dissolved	mg/L	0.0000140	0.000176	0.100	0.100	0.0987	0.103	0.0850 to 0.115	99.9	70.0 to 130	1.31	20.0
BC05685	Arsenic, Total	mg/L	0.0000387	0.000176	0.100	0.0998	0.100	0.104	0.0850 to 0.115	98.7	70.0 to 130	0.200	20.0
BC05686	Barium, Dissolved	mg/L	-0.0000261	0.000200	0.100	0.119	0.119	0.102	0.0850 to 0.115	95.7	70.0 to 130	0.00	20.0
BC05685	Barium, Total	mg/L	0.0000059	0.000200	0.100	0.114	0.114	0.0997	0.0850 to 0.115	92.6	70.0 to 130	0.00	20.0
BC05686	Beryllium, Dissolved	mg/L	0.0000422	0.000880	0.100	0.0907	0.0907	0.0905	0.0850 to 0.115	90.7	70.0 to 130	0.00	20.0
BC05685	Beryllium, Total	mg/L	0.0000184	0.000880	0.100	0.0904	0.0897	0.0982	0.0850 to 0.115	90.4	70.0 to 130	0.777	20.0
BC05686	Boron, Dissolved	mg/L	-0.000298	0.0650	1.00	1.06	1.04	0.986	0.850 to 1.15	102	70.0 to 130	1.90	20.0
BC05685	Boron, Total	mg/L	-0.000196	0.0650	1.00	1.04	1.05	0.985	0.850 to 1.15	100	70.0 to 130	0.957	20.0
BC05686	Cadmium, Dissolved	mg/L	0.0000066	0.000147	0.100	0.0967	0.0965	0.104	0.0850 to 0.115	96.7	70.0 to 130	0.207	20.0
BC05685	Cadmium, Total	mg/L	0.0000062	0.000147	0.100	0.0958	0.0958	0.106	0.0850 to 0.115	95.8	70.0 to 130	0.00	20.0
BC05686	Calcium, Dissolved	mg/L	-0.00416	0.152	5.00	180	180	4.83	4.25 to 5.75	80.0	70.0 to 130	0.00	20.0
BC05685	Calcium, Total	mg/L	-0.000866	0.152	5.00	201	197	4.78	4.25 to 5.75	60.0	70.0 to 130	2.01	20.0
BC05683	Chloride	mg/L	0.00672	1.00	10.0	21.3	21.3	10.1	9.00 to 11.0	102	80.0 to 120	0.00	20.0
BC05686	Chromium, Dissolved	mg/L	-0.0000315	0.000440	0.100	0.0950	0.0930	0.103	0.0850 to 0.115	95.0	70.0 to 130	2.13	20.0
BC05685	Chromium, Total	mg/L	0.0000096	0.000440	0.100	0.0943	0.0962	0.102	0.0850 to 0.115	94.1	70.0 to 130	1.99	20.0
BC05686	Cobalt, Dissolved	mg/L	0.0000005	0.000147	0.100	0.0966	0.0951	0.106	0.0850 to 0.115	96.6	70.0 to 130	1.56	20.0
BC05685	Cobalt, Total	mg/L	0.0000005	0.000147	0.100	0.0963	0.0977	0.105	0.0850 to 0.115	96.3	70.0 to 130	1.44	20.0
BC05682	Fluoride	mg/L	-0.0264	0.125	2.50	4.33	4.33	2.58	2.25 to 2.75	98.8	80.0 to 120	0.00	20.0
BC05686	Iron, Dissolved	mg/L	-0.000434	0.0176	0.2	4.98	5.00	0.198	0.170 to 0.230	95.0	70.0 to 130	0.401	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/16/22 14:00  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-3D

**Laboratory ID Number:** BC05680

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05685	Iron, Total	mg/L	-0.000366	0.0176	0.2	2.55	2.54	0.196	0.170 to 0.230	90.0	70.0 to 130	0.393	20.0
BC05686	Lead, Dissolved	mg/L	0.0000035	0.000147	0.100	0.0962	0.0973	0.0984	0.0850 to 0.115	96.2	70.0 to 130	1.14	20.0
BC05685	Lead, Total	mg/L	-0.0000022	0.000147	0.100	0.0973	0.0991	0.0989	0.0850 to 0.115	97.3	70.0 to 130	1.83	20.0
BC05686	Lithium, Dissolved	mg/L	-0.000245	0.0154	0.200	0.355	0.355	0.200	0.170 to 0.230	101	70.0 to 130	0.00	20.0
BC05685	Lithium, Total	mg/L	0.000005	0.0154	0.200	0.287	0.295	0.202	0.170 to 0.230	99.5	70.0 to 130	2.75	20.0
BC05686	Magnesium, Dissolved	mg/L	-0.00632	0.0462	5.00	92.5	91.3	5.13	4.25 to 5.75	114	70.0 to 130	1.31	20.0
BC05685	Magnesium, Total	mg/L	-0.000858	0.0462	5.00	94.0	91.5	5.09	4.25 to 5.75	92.0	70.0 to 130	2.70	20.0
BC05686	Manganese, Dissolved	mg/L	-0.0000044	0.0002	0.100	0.202	0.196	0.105	0.0850 to 0.115	98.0	70.0 to 130	3.02	20.0
BC05685	Manganese, Total	mg/L	0.0000292	0.0002	0.100	0.213	0.220	0.104	0.0850 to 0.115	91.0	70.0 to 130	3.23	20.0
BC05682	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00398	0.00404	0.00394	0.00340 to 0.00460	99.5	70.0 to 130	1.50	20.0
BC05686	Molybdenum, Dissolved	mg/L	0.0000088	0.0002	0.100	0.0961	0.0951	0.0983	0.0850 to 0.115	95.8	70.0 to 130	1.05	20.0
BC05685	Molybdenum, Total	mg/L	0.0000171	0.0002	0.100	0.0980	0.0965	0.100	0.0850 to 0.115	95.7	70.0 to 130	1.54	20.0
BC05686	Potassium, Dissolved	mg/L	0.00485	0.367	10.0	16.5	16.4	10.6	8.50 to 11.5	98.2	70.0 to 130	0.608	20.0
BC05685	Potassium, Total	mg/L	0.00208	0.367	10.0	24.9	25.4	10.5	8.50 to 11.5	92.0	70.0 to 130	1.99	20.0
BC05686	Selenium, Dissolved	mg/L	0.000179	0.00100	0.100	0.100	0.102	0.105	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC05685	Selenium, Total	mg/L	-0.0000256	0.00100	0.100	0.0980	0.0998	0.105	0.0850 to 0.115	98.0	70.0 to 130	1.82	20.0
BC05686	Silicon, Dissolved	mg/L	-0.000753	0.0440	1.00	7.63	7.62	0.991	0.850 to 1.15	104	70.0 to 130	0.131	20.0
BC05685	Silicon, Total	mg/L	-0.000676	0.0440	1.00	11.5	11.5	1.02	0.850 to 1.15	90.0	70.0 to 130	0.00	20.0
BC05686	Sodium, Dissolved	mg/L	0.0216	0.0660	5.00	68.6	68.0	5.04	4.25 to 5.75	96.0	70.0 to 130	0.878	20.0
BC05685	Sodium, Total	mg/L	0.000376	0.0660	5.00	134	131	5.08	4.25 to 5.75	80.0	70.0 to 130	2.26	20.0
BC05682	Sulfate	mg/L	0.232	2.0	800	1570	1550	20.3	18.0 to 22.0	104	80.0 to 120	1.28	20.0
BC05686	Thallium, Dissolved	mg/L	0.0000022	0.000147	0.100	0.100	0.100	0.102	0.0850 to 0.115	100	70.0 to 130	0.00	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.



# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/16/22 14:00  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-3D

**Laboratory ID Number:** BC05680

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05685	Thallium, Total	mg/L	0.0000003	0.000147	0.100	0.102	0.103	0.102	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC05683	Total Organic Carbon	mg/L	0.310	1.00	10.0	10.6	10.8	9.90		106	80.0 to 120	1.87	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

## Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/16/22 14:00  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-3D

**Laboratory ID Number:** BC05680

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05681	Alkalinity, Total as CaCO3	mg/L					23.8	51.1	45.0 to 55.0			1.67	10.0
BC05682	Nitrogen, Nitrate/Nitrite	mg/L as N	0.02	0.200	2.00	2.04	0.021	1.98	1.80 to 2.20	102	90.0 to 110	0.00	15.0
BC05695	Solids, Dissolved	mg/L	1.00	25.0			386	52.0	40.0 to 60.0			1.29	10.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-2

**Location Code:** WMWMILAP  
**Collected:** 3/16/22 15:43  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05681

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	3/28/22 15:00	3/29/22 10:11		1.015	0.165	mg/L	0.030000	0.1015	
* Calcium, Total	3/28/22 15:00	3/29/22 12:47		101.5	239	mg/L	7.0035	40.6	
* Iron, Total	3/28/22 15:00	3/29/22 12:47		101.5	172	mg/L	0.8120	4.06	
* Lithium, Total	3/28/22 15:00	3/29/22 10:11		1.015	0.211	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/28/22 15:00	3/29/22 12:47		101.5	149	mg/L	2.1315	40.6	
Silica, Total (calc.)	3/28/22 15:00	3/29/22 10:11		1	20.0	mg/L			
Silicon, Total	3/28/22 15:00	3/29/22 10:11		1.015	9.36	mg/L	0.02030	0.25375	
* Sodium, Total	3/28/22 15:00	3/29/22 12:47		101.5	131	mg/L	3.045	40.6	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	3/28/22 15:00	3/29/22 11:41		1.015	0.167	mg/L	0.030000	0.1015	
* Calcium, Dissolved	3/28/22 15:00	3/29/22 13:38		101.5	240	mg/L	7.0035	40.6	
* Iron, Dissolved	3/28/22 15:00	3/29/22 13:38		101.5	183	mg/L	0.8120	4.06	
* Lithium, Dissolved	3/28/22 15:00	3/29/22 11:41		1.015	0.209	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	3/28/22 15:00	3/29/22 13:38		101.5	150	mg/L	2.1315	40.6	
Silica, Dissolved (calc.)	3/28/22 15:00	3/29/22 11:41		1	20.2	mg/L			
Silicon, Dissolved	3/28/22 15:00	3/29/22 11:41		1.015	9.46	mg/L	0.02030	0.25375	
* Sodium, Dissolved	3/28/22 15:00	3/29/22 13:38		101.5	129	mg/L	3.045	40.6	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	3/21/22 10:00	3/21/22 18:05		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/21/22 10:00	3/21/22 18:05		1.015	0.0117	mg/L	0.006090	0.01015	
* Arsenic, Total	3/21/22 10:00	3/21/22 18:05		1.015	0.00394	mg/L	0.000081	0.000203	
* Barium, Total	3/21/22 10:00	3/21/22 18:05		1.015	0.0147	mg/L	0.000102	0.000203	
* Beryllium, Total	3/21/22 10:00	3/21/22 18:05		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/21/22 10:00	3/21/22 18:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/21/22 10:00	3/21/22 18:05		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	3/21/22 10:00	3/21/22 18:05		1.015	0.0444	mg/L	0.000068	0.000203	
* Lead, Total	3/21/22 10:00	3/21/22 18:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/21/22 10:00	3/22/22 12:58		5.075	3.37	mg/L	0.000761	0.001015	
* Molybdenum, Total	3/21/22 10:00	3/21/22 18:05		1.015	0.00207	mg/L	0.000102	0.000203	
* Potassium, Total	3/21/22 10:00	3/21/22 18:05		1.015	4.12	mg/L	0.169505	0.5075	

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-2

**Location Code:** WMWMILAP  
**Collected:** 3/16/22 15:43  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05681

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/21/22 10:00	3/21/22 18:05		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/21/22 10:00	3/21/22 18:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	3/21/22 11:05	3/21/22 16:12		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/21/22 11:05	3/21/22 16:12		1.015	0.0108	mg/L	0.006090	0.01015	
* Arsenic, Dissolved	3/21/22 11:05	3/21/22 16:12		1.015	0.00381	mg/L	0.000081	0.000203	
* Barium, Dissolved	3/21/22 11:05	3/21/22 16:12		1.015	0.0153	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/21/22 11:05	3/21/22 16:12		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/21/22 11:05	3/21/22 16:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/21/22 11:05	3/21/22 16:12		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	3/21/22 11:05	3/21/22 16:12		1.015	0.0475	mg/L	0.000068	0.000203	
* Lead, Dissolved	3/21/22 11:05	3/21/22 16:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/21/22 11:05	3/22/22 12:33		5.075	3.38	mg/L	0.000761	0.001015	
* Molybdenum, Dissolved	3/21/22 11:05	3/21/22 16:12		1.015	0.00213	mg/L	0.000102	0.000203	
* Potassium, Dissolved	3/21/22 11:05	3/21/22 16:12		1.015	4.25	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/21/22 11:05	3/21/22 16:12		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/21/22 11:05	3/21/22 16:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	3/18/22 17:13	3/18/22 22:37		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: ELH</b>							
* Nitrogen, Nitrate/Nitrite	3/23/22 13:26	3/23/22 13:26		1	0.271	mg/L as N	0.20	0.3	J
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity, Total as CaCO3	3/25/22 09:45	3/25/22 12:15		1	24.2	mg/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	3/23/22 13:04	3/24/22 14:33		1	2420	mg/L		125	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
Bicarbonate Alkalinity, (calc.)	3/25/22 09:45	3/25/22 12:15		1	24.2	mg/L			A
Carbonate Alkalinity, (calc.)	3/25/22 09:45	3/25/22 12:15		1	0.00	mg/L			A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/21/22 12:59	3/21/22 12:59		1	2.65	mg/L	1.00	2	

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-2

**Location Code:** WMWMILAP  
**Collected:** 3/16/22 15:43  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05681

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/21/22 11:02	3/21/22 11:02		1	6.88	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 10:25	3/22/22 10:25		1	0.268	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/24/22 11:56	3/24/22 11:56		50	1630	mg/L	30.0	100	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	3/16/22 15:40	3/16/22 15:40			2749.84	uS/cm			FA
pH	3/16/22 15:40	3/16/22 15:40			6.14	SU			FA
Temperature	3/16/22 15:40	3/16/22 15:40			18.45	C			FA
Turbidity	3/16/22 15:40	3/16/22 15:40			0.15	NTU			FA

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/16/22 15:43  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-2

**Laboratory ID Number:** BC05681

Sample	Analysis	Units	MB	MB		MS	MSD	Standard	Standard		Rec		Prec	Limit
				Limit	Spike				Limit	Prec	Limit	Prec		
BC05686	Aluminum, Dissolved	mg/L	-0.000828	0.010	0.100	0.0960	0.0932	0.103	0.0850 to 0.115	96.0	70.0 to 130	2.96	20.0	
BC05685	Aluminum, Total	mg/L	-0.000159	0.010	0.100	0.0991	0.102	0.104	0.0850 to 0.115	99.1	70.0 to 130	2.88	20.0	
BC05686	Antimony, Dissolved	mg/L	0.000289	0.00100	0.100	0.0980	0.0954	0.0944	0.0850 to 0.115	98.0	70.0 to 130	2.69	20.0	
BC05685	Antimony, Total	mg/L	0.000261	0.00100	0.100	0.0956	0.0957	0.0950	0.0850 to 0.115	95.6	70.0 to 130	0.105	20.0	
BC05686	Arsenic, Dissolved	mg/L	0.0000140	0.000176	0.100	0.100	0.0987	0.103	0.0850 to 0.115	99.9	70.0 to 130	1.31	20.0	
BC05685	Arsenic, Total	mg/L	0.0000387	0.000176	0.100	0.0998	0.100	0.104	0.0850 to 0.115	98.7	70.0 to 130	0.200	20.0	
BC05686	Barium, Dissolved	mg/L	-0.0000261	0.000200	0.100	0.119	0.119	0.102	0.0850 to 0.115	95.7	70.0 to 130	0.00	20.0	
BC05685	Barium, Total	mg/L	0.0000059	0.000200	0.100	0.114	0.114	0.0997	0.0850 to 0.115	92.6	70.0 to 130	0.00	20.0	
BC05686	Beryllium, Dissolved	mg/L	0.0000422	0.000880	0.100	0.0907	0.0907	0.0905	0.0850 to 0.115	90.7	70.0 to 130	0.00	20.0	
BC05685	Beryllium, Total	mg/L	0.0000184	0.000880	0.100	0.0904	0.0897	0.0982	0.0850 to 0.115	90.4	70.0 to 130	0.777	20.0	
BC05686	Boron, Dissolved	mg/L	-0.000298	0.0650	1.00	1.06	1.04	0.986	0.850 to 1.15	102	70.0 to 130	1.90	20.0	
BC05685	Boron, Total	mg/L	-0.000196	0.0650	1.00	1.04	1.05	0.985	0.850 to 1.15	100	70.0 to 130	0.957	20.0	
BC05686	Cadmium, Dissolved	mg/L	0.0000066	0.000147	0.100	0.0967	0.0965	0.104	0.0850 to 0.115	96.7	70.0 to 130	0.207	20.0	
BC05685	Cadmium, Total	mg/L	0.0000062	0.000147	0.100	0.0958	0.0958	0.106	0.0850 to 0.115	95.8	70.0 to 130	0.00	20.0	
BC05686	Calcium, Dissolved	mg/L	-0.00416	0.152	5.00	180	180	4.83	4.25 to 5.75	80.0	70.0 to 130	0.00	20.0	
BC05685	Calcium, Total	mg/L	-0.000866	0.152	5.00	201	197	4.78	4.25 to 5.75	60.0	70.0 to 130	2.01	20.0	
BC05683	Chloride	mg/L	0.00672	1.00	10.0	21.3	21.3	10.1	9.00 to 11.0	102	80.0 to 120	0.00	20.0	
BC05686	Chromium, Dissolved	mg/L	-0.0000315	0.000440	0.100	0.0950	0.0930	0.103	0.0850 to 0.115	95.0	70.0 to 130	2.13	20.0	
BC05685	Chromium, Total	mg/L	0.0000096	0.000440	0.100	0.0943	0.0962	0.102	0.0850 to 0.115	94.1	70.0 to 130	1.99	20.0	
BC05686	Cobalt, Dissolved	mg/L	0.0000005	0.000147	0.100	0.0966	0.0951	0.106	0.0850 to 0.115	96.6	70.0 to 130	1.56	20.0	
BC05685	Cobalt, Total	mg/L	0.0000005	0.000147	0.100	0.0963	0.0977	0.105	0.0850 to 0.115	96.3	70.0 to 130	1.44	20.0	
BC05682	Fluoride	mg/L	-0.0264	0.125	2.50	4.33	4.33	2.58	2.25 to 2.75	98.8	80.0 to 120	0.00	20.0	
BC05686	Iron, Dissolved	mg/L	-0.000434	0.0176	0.2	4.98	5.00	0.198	0.170 to 0.230	95.0	70.0 to 130	0.401	20.0	

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/16/22 15:43  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-2

**Laboratory ID Number:** BC05681

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05685	Iron, Total	mg/L	-0.000366	0.0176	0.2	2.55	2.54	0.196	0.170 to 0.230	90.0	70.0 to 130	0.393	20.0
BC05686	Lead, Dissolved	mg/L	0.0000035	0.000147	0.100	0.0962	0.0973	0.0984	0.0850 to 0.115	96.2	70.0 to 130	1.14	20.0
BC05685	Lead, Total	mg/L	-0.0000022	0.000147	0.100	0.0973	0.0991	0.0989	0.0850 to 0.115	97.3	70.0 to 130	1.83	20.0
BC05686	Lithium, Dissolved	mg/L	-0.000245	0.0154	0.200	0.355	0.355	0.200	0.170 to 0.230	101	70.0 to 130	0.00	20.0
BC05685	Lithium, Total	mg/L	0.0000005	0.0154	0.200	0.287	0.295	0.202	0.170 to 0.230	99.5	70.0 to 130	2.75	20.0
BC05686	Magnesium, Dissolved	mg/L	-0.00632	0.0462	5.00	92.5	91.3	5.13	4.25 to 5.75	114	70.0 to 130	1.31	20.0
BC05685	Magnesium, Total	mg/L	-0.000858	0.0462	5.00	94.0	91.5	5.09	4.25 to 5.75	92.0	70.0 to 130	2.70	20.0
BC05686	Manganese, Dissolved	mg/L	-0.0000044	0.0002	0.100	0.202	0.196	0.105	0.0850 to 0.115	98.0	70.0 to 130	3.02	20.0
BC05685	Manganese, Total	mg/L	0.0000292	0.0002	0.100	0.213	0.220	0.104	0.0850 to 0.115	91.0	70.0 to 130	3.23	20.0
BC05682	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00398	0.00404	0.00394	0.00340 to 0.00460	99.5	70.0 to 130	1.50	20.0
BC05686	Molybdenum, Dissolved	mg/L	0.0000088	0.0002	0.100	0.0961	0.0951	0.0983	0.0850 to 0.115	95.8	70.0 to 130	1.05	20.0
BC05685	Molybdenum, Total	mg/L	0.0000171	0.0002	0.100	0.0980	0.0965	0.100	0.0850 to 0.115	95.7	70.0 to 130	1.54	20.0
BC05686	Potassium, Dissolved	mg/L	0.00485	0.367	10.0	16.5	16.4	10.6	8.50 to 11.5	98.2	70.0 to 130	0.608	20.0
BC05685	Potassium, Total	mg/L	0.00208	0.367	10.0	24.9	25.4	10.5	8.50 to 11.5	92.0	70.0 to 130	1.99	20.0
BC05686	Selenium, Dissolved	mg/L	0.000179	0.00100	0.100	0.100	0.102	0.105	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC05685	Selenium, Total	mg/L	-0.0000256	0.00100	0.100	0.0980	0.0998	0.105	0.0850 to 0.115	98.0	70.0 to 130	1.82	20.0
BC05686	Silicon, Dissolved	mg/L	-0.000753	0.0440	1.00	7.63	7.62	0.991	0.850 to 1.15	104	70.0 to 130	0.131	20.0
BC05685	Silicon, Total	mg/L	-0.000676	0.0440	1.00	11.5	11.5	1.02	0.850 to 1.15	90.0	70.0 to 130	0.00	20.0
BC05686	Sodium, Dissolved	mg/L	0.0216	0.0660	5.00	68.6	68.0	5.04	4.25 to 5.75	96.0	70.0 to 130	0.878	20.0
BC05685	Sodium, Total	mg/L	0.000376	0.0660	5.00	134	131	5.08	4.25 to 5.75	80.0	70.0 to 130	2.26	20.0
BC05682	Sulfate	mg/L	0.232	2.0	800	1570	1550	20.3	18.0 to 22.0	104	80.0 to 120	1.28	20.0
BC05686	Thallium, Dissolved	mg/L	0.0000022	0.000147	0.100	0.100	0.100	0.102	0.0850 to 0.115	100	70.0 to 130	0.00	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/16/22 15:43  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-2

**Laboratory ID Number:** BC05681

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BC05685	Thallium, Total	mg/L	0.0000003	0.000147	0.100	0.102	0.103	0.102	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC05683	Total Organic Carbon	mg/L	0.310	1.00	10.0	10.6	10.8	9.90		106	80.0 to 120	1.87	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.



## Batch QC Summary

**Customer Account:** WMWMILAP

**Sample Date:** 3/16/22 15:43

**Customer ID:**

**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-2

**Laboratory ID Number:** BC05681

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05681	Alkalinity, Total as CaCO3	mg/L					23.8	51.1	45.0 to 55.0			1.67	10.0
BC05682	Nitrogen, Nitrate/Nitrite	mg/L as N	0.02	0.200	2.00	2.04	0.021	1.98	1.80 to 2.20	102	90.0 to 110	0.00	15.0
BC05696	Solids, Dissolved	mg/L	1.00	25.0			4400	50.0	40.0 to 60.0			4.44	10.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-10

**Location Code:** WMWMILAP  
**Collected:** 3/17/22 07:56  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05682

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	3/28/22 15:00	3/29/22 10:13		1.015	5.81	mg/L	0.030000	0.1015	
* Calcium, Total	3/28/22 15:00	3/29/22 12:49		20.3	76.4	mg/L	1.4007	8.12	
* Iron, Total	3/28/22 15:00	3/29/22 10:13		1.015	1.66	mg/L	0.008120	0.0406	
* Lithium, Total	3/28/22 15:00	3/29/22 10:13		1.015	0.174	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/28/22 15:00	3/29/22 10:13		1.015	35.2	mg/L	0.021315	0.406	
Silica, Total (calc.)	3/28/22 15:00	3/29/22 10:13		1	21.0	mg/L			
Silicon, Total	3/28/22 15:00	3/29/22 10:13		1.015	9.79	mg/L	0.02030	0.25375	
* Sodium, Total	3/28/22 15:00	3/29/22 12:49		20.3	291	mg/L	0.609	8.12	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	3/28/22 15:00	3/29/22 11:43		1.015	5.87	mg/L	0.030000	0.1015	
* Calcium, Dissolved	3/28/22 15:00	3/29/22 13:40		20.3	78.6	mg/L	1.4007	8.12	
* Iron, Dissolved	3/28/22 15:00	3/29/22 11:43		1.015	1.54	mg/L	0.008120	0.0406	
* Lithium, Dissolved	3/28/22 15:00	3/29/22 11:43		1.015	0.175	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	3/28/22 15:00	3/29/22 11:43		1.015	35.8	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	3/28/22 15:00	3/29/22 11:43		1	21.0	mg/L			
Silicon, Dissolved	3/28/22 15:00	3/29/22 11:43		1.015	9.79	mg/L	0.02030	0.25375	
* Sodium, Dissolved	3/28/22 15:00	3/29/22 13:40		20.3	307	mg/L	0.609	8.12	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	3/21/22 10:00	3/21/22 18:09		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/21/22 10:00	3/21/22 18:09		1.015	0.0100	mg/L	0.006090	0.01015	J
* Arsenic, Total	3/21/22 10:00	3/21/22 18:09		1.015	0.0610	mg/L	0.000081	0.000203	
* Barium, Total	3/21/22 10:00	3/21/22 18:09		1.015	0.0106	mg/L	0.000102	0.000203	
* Beryllium, Total	3/21/22 10:00	3/21/22 18:09		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/21/22 10:00	3/21/22 18:09		1.015	0.0000862	mg/L	0.000068	0.000203	J
* Chromium, Total	3/21/22 10:00	3/21/22 18:09		1.015	0.00139	mg/L	0.000203	0.001015	
* Cobalt, Total	3/21/22 10:00	3/21/22 18:09		1.015	0.000905	mg/L	0.000068	0.000203	
* Lead, Total	3/21/22 10:00	3/21/22 18:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/21/22 10:00	3/21/22 18:09		1.015	0.520	mg/L	0.000152	0.000203	
* Molybdenum, Total	3/21/22 10:00	3/21/22 18:09		1.015	0.751	mg/L	0.000102	0.000203	
* Potassium, Total	3/21/22 10:00	3/21/22 18:09		1.015	6.27	mg/L	0.169505	0.5075	

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-10

**Location Code:** WMWMILAP  
**Collected:** 3/17/22 07:56  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05682

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/21/22 10:00	3/21/22 18:09		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/21/22 10:00	3/21/22 18:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	3/21/22 11:05	3/21/22 16:16		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/21/22 11:05	3/21/22 16:16		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/21/22 11:05	3/21/22 16:16		1.015	0.0621	mg/L	0.000081	0.000203	
* Barium, Dissolved	3/21/22 11:05	3/21/22 16:16		1.015	0.00983	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/21/22 11:05	3/21/22 16:16		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/21/22 11:05	3/21/22 16:16		1.015	0.0000767	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	3/21/22 11:05	3/21/22 16:16		1.015	0.000217	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	3/21/22 11:05	3/21/22 16:16		1.015	0.000764	mg/L	0.000068	0.000203	
* Lead, Dissolved	3/21/22 11:05	3/21/22 16:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/21/22 11:05	3/21/22 16:16		1.015	0.509	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/21/22 11:05	3/21/22 16:16		1.015	0.748	mg/L	0.000102	0.000203	
* Potassium, Dissolved	3/21/22 11:05	3/21/22 16:16		1.015	6.34	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/21/22 11:05	3/21/22 16:16		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/21/22 11:05	3/21/22 16:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	3/18/22 17:13	3/18/22 22:41		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: ELH</b>							
* Nitrogen, Nitrate/Nitrite	3/23/22 13:27	3/23/22 13:27		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity, Total as CaCO3	3/29/22 12:50	3/29/22 15:42		1	225	mg/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	3/23/22 13:04	3/24/22 14:33		1	1230	mg/L		100	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
Bicarbonate Alkalinity, (calc.)	3/29/22 12:50	3/29/22 15:42		1	223	mg/L			A
Carbonate Alkalinity, (calc.)	3/29/22 12:50	3/29/22 15:42		1	2.40	mg/L			A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/21/22 13:17	3/21/22 13:17		1	1.71	mg/L	1.00	2	J

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-10

**Location Code:** WMWMILAP  
**Collected:** 3/17/22 07:56  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05682

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/21/22 11:04	3/21/22 11:04		1	4.75	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 10:26	3/22/22 10:26		1	1.86	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/24/22 11:57	3/24/22 11:57		40	735	mg/L	24.0	80	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	3/17/22 07:53	3/17/22 07:53			1779.08	uS/cm			FA
pH	3/17/22 07:53	3/17/22 07:53			7.24	SU			FA
Temperature	3/17/22 07:53	3/17/22 07:53			15.79	C			FA
Turbidity	3/17/22 07:53	3/17/22 07:53			3.44	NTU			FA

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/17/22 07:56  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-10

**Laboratory ID Number:** BC05682

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC05686	Aluminum, Dissolved	mg/L	-0.000828	0.010	0.100	0.0960	0.0932	0.103	0.0850 to 0.115	96.0	70.0 to 130	2.96	20.0
BC05685	Aluminum, Total	mg/L	-0.000159	0.010	0.100	0.0991	0.102	0.104	0.0850 to 0.115	99.1	70.0 to 130	2.88	20.0
BC05686	Antimony, Dissolved	mg/L	0.000289	0.00100	0.100	0.0980	0.0954	0.0944	0.0850 to 0.115	98.0	70.0 to 130	2.69	20.0
BC05685	Antimony, Total	mg/L	0.000261	0.00100	0.100	0.0956	0.0957	0.0950	0.0850 to 0.115	95.6	70.0 to 130	0.105	20.0
BC05686	Arsenic, Dissolved	mg/L	0.0000140	0.000176	0.100	0.100	0.0987	0.103	0.0850 to 0.115	99.9	70.0 to 130	1.31	20.0
BC05685	Arsenic, Total	mg/L	0.0000387	0.000176	0.100	0.0998	0.100	0.104	0.0850 to 0.115	98.7	70.0 to 130	0.200	20.0
BC05686	Barium, Dissolved	mg/L	-0.0000261	0.000200	0.100	0.119	0.119	0.102	0.0850 to 0.115	95.7	70.0 to 130	0.00	20.0
BC05685	Barium, Total	mg/L	0.0000059	0.000200	0.100	0.114	0.114	0.0997	0.0850 to 0.115	92.6	70.0 to 130	0.00	20.0
BC05686	Beryllium, Dissolved	mg/L	0.0000422	0.000880	0.100	0.0907	0.0907	0.0905	0.0850 to 0.115	90.7	70.0 to 130	0.00	20.0
BC05685	Beryllium, Total	mg/L	0.0000184	0.000880	0.100	0.0904	0.0897	0.0982	0.0850 to 0.115	90.4	70.0 to 130	0.777	20.0
BC05686	Boron, Dissolved	mg/L	-0.000298	0.0650	1.00	1.06	1.04	0.986	0.850 to 1.15	102	70.0 to 130	1.90	20.0
BC05685	Boron, Total	mg/L	-0.000196	0.0650	1.00	1.04	1.05	0.985	0.850 to 1.15	100	70.0 to 130	0.957	20.0
BC05686	Cadmium, Dissolved	mg/L	0.0000066	0.000147	0.100	0.0967	0.0965	0.104	0.0850 to 0.115	96.7	70.0 to 130	0.207	20.0
BC05685	Cadmium, Total	mg/L	0.0000062	0.000147	0.100	0.0958	0.0958	0.106	0.0850 to 0.115	95.8	70.0 to 130	0.00	20.0
BC05686	Calcium, Dissolved	mg/L	-0.00416	0.152	5.00	180	180	4.83	4.25 to 5.75	80.0	70.0 to 130	0.00	20.0
BC05685	Calcium, Total	mg/L	-0.000866	0.152	5.00	201	197	4.78	4.25 to 5.75	60.0	70.0 to 130	2.01	20.0
BC05683	Chloride	mg/L	0.00672	1.00	10.0	21.3	21.3	10.1	9.00 to 11.0	102	80.0 to 120	0.00	20.0
BC05686	Chromium, Dissolved	mg/L	-0.0000315	0.000440	0.100	0.0950	0.0930	0.103	0.0850 to 0.115	95.0	70.0 to 130	2.13	20.0
BC05685	Chromium, Total	mg/L	0.0000096	0.000440	0.100	0.0943	0.0962	0.102	0.0850 to 0.115	94.1	70.0 to 130	1.99	20.0
BC05686	Cobalt, Dissolved	mg/L	0.0000005	0.000147	0.100	0.0966	0.0951	0.106	0.0850 to 0.115	96.6	70.0 to 130	1.56	20.0
BC05685	Cobalt, Total	mg/L	0.0000005	0.000147	0.100	0.0963	0.0977	0.105	0.0850 to 0.115	96.3	70.0 to 130	1.44	20.0
BC05682	Fluoride	mg/L	-0.0264	0.125	2.50	4.33	4.33	2.58	2.25 to 2.75	98.8	80.0 to 120	0.00	20.0
BC05686	Iron, Dissolved	mg/L	-0.000434	0.0176	0.2	4.98	5.00	0.198	0.170 to 0.230	95.0	70.0 to 130	0.401	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/17/22 07:56  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-10

**Laboratory ID Number:** BC05682

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05685	Iron, Total	mg/L	-0.000366	0.0176	0.2	2.55	2.54	0.196	0.170 to 0.230	90.0	70.0 to 130	0.393	20.0
BC05686	Lead, Dissolved	mg/L	0.0000035	0.000147	0.100	0.0962	0.0973	0.0984	0.0850 to 0.115	96.2	70.0 to 130	1.14	20.0
BC05685	Lead, Total	mg/L	-0.0000022	0.000147	0.100	0.0973	0.0991	0.0989	0.0850 to 0.115	97.3	70.0 to 130	1.83	20.0
BC05686	Lithium, Dissolved	mg/L	-0.000245	0.0154	0.200	0.355	0.355	0.200	0.170 to 0.230	101	70.0 to 130	0.00	20.0
BC05685	Lithium, Total	mg/L	0.0000005	0.0154	0.200	0.287	0.295	0.202	0.170 to 0.230	99.5	70.0 to 130	2.75	20.0
BC05686	Magnesium, Dissolved	mg/L	-0.00632	0.0462	5.00	92.5	91.3	5.13	4.25 to 5.75	114	70.0 to 130	1.31	20.0
BC05685	Magnesium, Total	mg/L	-0.000858	0.0462	5.00	94.0	91.5	5.09	4.25 to 5.75	92.0	70.0 to 130	2.70	20.0
BC05686	Manganese, Dissolved	mg/L	-0.0000044	0.0002	0.100	0.202	0.196	0.105	0.0850 to 0.115	98.0	70.0 to 130	3.02	20.0
BC05685	Manganese, Total	mg/L	0.0000292	0.0002	0.100	0.213	0.220	0.104	0.0850 to 0.115	91.0	70.0 to 130	3.23	20.0
BC05682	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00398	0.00404	0.00394	0.00340 to 0.00460	99.5	70.0 to 130	1.50	20.0
BC05686	Molybdenum, Dissolved	mg/L	0.0000088	0.0002	0.100	0.0961	0.0951	0.0983	0.0850 to 0.115	95.8	70.0 to 130	1.05	20.0
BC05685	Molybdenum, Total	mg/L	0.0000171	0.0002	0.100	0.0980	0.0965	0.100	0.0850 to 0.115	95.7	70.0 to 130	1.54	20.0
BC05686	Potassium, Dissolved	mg/L	0.00485	0.367	10.0	16.5	16.4	10.6	8.50 to 11.5	98.2	70.0 to 130	0.608	20.0
BC05685	Potassium, Total	mg/L	0.00208	0.367	10.0	24.9	25.4	10.5	8.50 to 11.5	92.0	70.0 to 130	1.99	20.0
BC05686	Selenium, Dissolved	mg/L	0.000179	0.00100	0.100	0.100	0.102	0.105	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC05685	Selenium, Total	mg/L	-0.0000256	0.00100	0.100	0.0980	0.0998	0.105	0.0850 to 0.115	98.0	70.0 to 130	1.82	20.0
BC05686	Silicon, Dissolved	mg/L	-0.000753	0.0440	1.00	7.63	7.62	0.991	0.850 to 1.15	104	70.0 to 130	0.131	20.0
BC05685	Silicon, Total	mg/L	-0.000676	0.0440	1.00	11.5	11.5	1.02	0.850 to 1.15	90.0	70.0 to 130	0.00	20.0
BC05686	Sodium, Dissolved	mg/L	0.0216	0.0660	5.00	68.6	68.0	5.04	4.25 to 5.75	96.0	70.0 to 130	0.878	20.0
BC05685	Sodium, Total	mg/L	0.000376	0.0660	5.00	134	131	5.08	4.25 to 5.75	80.0	70.0 to 130	2.26	20.0
BC05682	Sulfate	mg/L	0.232	2.0	800	1570	1550	20.3	18.0 to 22.0	104	80.0 to 120	1.28	20.0
BC05686	Thallium, Dissolved	mg/L	0.0000022	0.000147	0.100	0.100	0.100	0.102	0.0850 to 0.115	100	70.0 to 130	0.00	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/17/22 07:56  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-10

**Laboratory ID Number:** BC05682

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BC05685	Thallium, Total	mg/L	0.0000003	0.000147	0.100	0.102	0.103	0.102	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC05683	Total Organic Carbon	mg/L	0.310	1.00	10.0	10.6	10.8	9.90		106	80.0 to 120	1.87	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

## Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/17/22 07:56  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-10

**Laboratory ID Number:** BC05682

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05696	Alkalinity, Total as CaCO3	mg/L					112	50.8	45.0 to 55.0			2.71	10.0
BC05682	Nitrogen, Nitrate/Nitrite	mg/L as N	0.02	0.200	2.00	2.04	0.021	1.98	1.80 to 2.20	102	90.0 to 110	0.00	15.0
BC05696	Solids, Dissolved	mg/L	1.00	25.0			4400	50.0	40.0 to 60.0			4.44	10.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.



# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-21

**Location Code:** WMWMILAP  
**Collected:** 3/17/22 09:28  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05683

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	3/28/22 15:00	3/29/22 10:15		1.015	0.0890	mg/L	0.030000	0.1015	J
* Calcium, Total	3/28/22 15:00	3/29/22 12:51		20.3	54.6	mg/L	1.4007	8.12	
* Iron, Total	3/28/22 15:00	3/29/22 10:15		1.015	0.360	mg/L	0.008120	0.0406	
* Lithium, Total	3/28/22 15:00	3/29/22 10:15		1.015	0.0540	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/28/22 15:00	3/29/22 10:15		1.015	16.8	mg/L	0.021315	0.406	
Silica, Total (calc.)	3/28/22 15:00	3/29/22 10:15		1	17.8	mg/L			
Silicon, Total	3/28/22 15:00	3/29/22 10:15		1.015	8.32	mg/L	0.02030	0.25375	
* Sodium, Total	3/28/22 15:00	3/29/22 12:51		20.3	84.6	mg/L	0.609	8.12	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	3/28/22 15:00	3/29/22 11:45		1.015	0.0894	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	3/28/22 15:00	3/29/22 13:42		20.3	54.8	mg/L	1.4007	8.12	
* Iron, Dissolved	3/28/22 15:00	3/29/22 11:45		1.015	0.304	mg/L	0.008120	0.0406	
* Lithium, Dissolved	3/28/22 15:00	3/29/22 11:45		1.015	0.0543	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	3/28/22 15:00	3/29/22 11:45		1.015	16.7	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	3/28/22 15:00	3/29/22 11:45		1	17.9	mg/L			
Silicon, Dissolved	3/28/22 15:00	3/29/22 11:45		1.015	8.37	mg/L	0.02030	0.25375	
* Sodium, Dissolved	3/28/22 15:00	3/29/22 13:42		20.3	85.5	mg/L	0.609	8.12	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	3/21/22 10:00	3/21/22 18:12		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/21/22 10:00	3/21/22 18:12		1.015	0.0206	mg/L	0.006090	0.01015	
* Arsenic, Total	3/21/22 10:00	3/21/22 18:12		1.015	0.00137	mg/L	0.000081	0.000203	
* Barium, Total	3/21/22 10:00	3/21/22 18:12		1.015	0.142	mg/L	0.000102	0.000203	
* Beryllium, Total	3/21/22 10:00	3/21/22 18:12		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/21/22 10:00	3/21/22 18:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/21/22 10:00	3/21/22 18:12		1.015	0.000243	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/21/22 10:00	3/21/22 18:12		1.015	0.0000753	mg/L	0.000068	0.000203	J
* Lead, Total	3/21/22 10:00	3/21/22 18:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/21/22 10:00	3/21/22 18:12		1.015	0.0901	mg/L	0.000152	0.000203	
* Molybdenum, Total	3/21/22 10:00	3/21/22 18:12		1.015	0.000500	mg/L	0.000102	0.000203	
* Potassium, Total	3/21/22 10:00	3/21/22 18:12		1.015	3.57	mg/L	0.169505	0.5075	

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-21

**Location Code:** WMWMILAP  
**Collected:** 3/17/22 09:28  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05683

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/21/22 10:00	3/21/22 18:12		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/21/22 10:00	3/21/22 18:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	3/21/22 11:05	3/21/22 16:20		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/21/22 11:05	3/21/22 16:20		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/21/22 11:05	3/21/22 16:20		1.015	0.00112	mg/L	0.000081	0.000203	
* Barium, Dissolved	3/21/22 11:05	3/21/22 16:20		1.015	0.140	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/21/22 11:05	3/21/22 16:20		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/21/22 11:05	3/21/22 16:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/21/22 11:05	3/21/22 16:20		1.015	0.000214	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	3/21/22 11:05	3/21/22 16:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	3/21/22 11:05	3/21/22 16:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/21/22 11:05	3/21/22 16:20		1.015	0.0876	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/21/22 11:05	3/21/22 16:20		1.015	0.000332	mg/L	0.000102	0.000203	
* Potassium, Dissolved	3/21/22 11:05	3/21/22 16:20		1.015	3.52	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/21/22 11:05	3/21/22 16:20		1.015	0.000879	mg/L	0.000508	0.001015	J
* Thallium, Dissolved	3/21/22 11:05	3/21/22 16:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	3/18/22 17:13	3/18/22 23:08		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: ELH</b>							
* Nitrogen, Nitrate/Nitrite	3/23/22 13:37	3/23/22 13:37		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity, Total as CaCO3	3/29/22 12:50	3/29/22 15:42		1	265	mg/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	3/23/22 13:04	3/24/22 14:33		1	460	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
Bicarbonate Alkalinity, (calc.)	3/29/22 12:50	3/29/22 15:42		1	262	mg/L			
Carbonate Alkalinity, (calc.)	3/29/22 12:50	3/29/22 15:42		1	2.52	mg/L			
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/21/22 13:38	3/21/22 13:38		1	Not Detected	mg/L	1.00	2	U

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-21

**Location Code:** WMWMILAP  
**Collected:** 3/17/22 09:28  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05683

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/21/22 11:05	3/21/22 11:05		1	11.1	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 10:38	3/22/22 10:38		1	0.127	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/24/22 12:48	3/24/22 12:48		8	137	mg/L	4.8	16	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	3/17/22 09:25	3/17/22 09:25			734.05	uS/cm			FA
pH	3/17/22 09:25	3/17/22 09:25			7.72	SU			FA
Temperature	3/17/22 09:25	3/17/22 09:25			17.70	C			FA
Turbidity	3/17/22 09:25	3/17/22 09:25			0.83	NTU			FA

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

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**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/17/22 09:28  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-21

**Laboratory ID Number:** BC05683

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC05686	Aluminum, Dissolved	mg/L	-0.000828	0.010	0.100	0.0960	0.0932	0.103	0.0850 to 0.115	96.0	70.0 to 130	2.96	20.0
BC05685	Aluminum, Total	mg/L	-0.000159	0.010	0.100	0.0991	0.102	0.104	0.0850 to 0.115	99.1	70.0 to 130	2.88	20.0
BC05686	Antimony, Dissolved	mg/L	0.000289	0.00100	0.100	0.0980	0.0954	0.0944	0.0850 to 0.115	98.0	70.0 to 130	2.69	20.0
BC05685	Antimony, Total	mg/L	0.000261	0.00100	0.100	0.0956	0.0957	0.0950	0.0850 to 0.115	95.6	70.0 to 130	0.105	20.0
BC05686	Arsenic, Dissolved	mg/L	0.0000140	0.000176	0.100	0.100	0.0987	0.103	0.0850 to 0.115	99.9	70.0 to 130	1.31	20.0
BC05685	Arsenic, Total	mg/L	0.0000387	0.000176	0.100	0.0998	0.100	0.104	0.0850 to 0.115	98.7	70.0 to 130	0.200	20.0
BC05686	Barium, Dissolved	mg/L	-0.0000261	0.000200	0.100	0.119	0.119	0.102	0.0850 to 0.115	95.7	70.0 to 130	0.00	20.0
BC05685	Barium, Total	mg/L	0.0000059	0.000200	0.100	0.114	0.114	0.0997	0.0850 to 0.115	92.6	70.0 to 130	0.00	20.0
BC05686	Beryllium, Dissolved	mg/L	0.0000422	0.000880	0.100	0.0907	0.0907	0.0905	0.0850 to 0.115	90.7	70.0 to 130	0.00	20.0
BC05685	Beryllium, Total	mg/L	0.0000184	0.000880	0.100	0.0904	0.0897	0.0982	0.0850 to 0.115	90.4	70.0 to 130	0.777	20.0
BC05686	Boron, Dissolved	mg/L	-0.000298	0.0650	1.00	1.06	1.04	0.986	0.850 to 1.15	102	70.0 to 130	1.90	20.0
BC05685	Boron, Total	mg/L	-0.000196	0.0650	1.00	1.04	1.05	0.985	0.850 to 1.15	100	70.0 to 130	0.957	20.0
BC05686	Cadmium, Dissolved	mg/L	0.0000066	0.000147	0.100	0.0967	0.0965	0.104	0.0850 to 0.115	96.7	70.0 to 130	0.207	20.0
BC05685	Cadmium, Total	mg/L	0.0000062	0.000147	0.100	0.0958	0.0958	0.106	0.0850 to 0.115	95.8	70.0 to 130	0.00	20.0
BC05686	Calcium, Dissolved	mg/L	-0.00416	0.152	5.00	180	180	4.83	4.25 to 5.75	80.0	70.0 to 130	0.00	20.0
BC05685	Calcium, Total	mg/L	-0.000866	0.152	5.00	201	197	4.78	4.25 to 5.75	60.0	70.0 to 130	2.01	20.0
BC05683	Chloride	mg/L	0.00672	1.00	10.0	21.3	21.3	10.1	9.00 to 11.0	102	80.0 to 120	0.00	20.0
BC05686	Chromium, Dissolved	mg/L	-0.0000315	0.000440	0.100	0.0950	0.0930	0.103	0.0850 to 0.115	95.0	70.0 to 130	2.13	20.0
BC05685	Chromium, Total	mg/L	0.0000096	0.000440	0.100	0.0943	0.0962	0.102	0.0850 to 0.115	94.1	70.0 to 130	1.99	20.0
BC05686	Cobalt, Dissolved	mg/L	0.0000005	0.000147	0.100	0.0966	0.0951	0.106	0.0850 to 0.115	96.6	70.0 to 130	1.56	20.0
BC05685	Cobalt, Total	mg/L	0.0000005	0.000147	0.100	0.0963	0.0977	0.105	0.0850 to 0.115	96.3	70.0 to 130	1.44	20.0
BC05692	Fluoride	mg/L	-0.0193	0.125	2.50	2.95	2.93	2.59	2.25 to 2.75	102	80.0 to 120	0.680	20.0
BC05686	Iron, Dissolved	mg/L	-0.000434	0.0176	0.2	4.98	5.00	0.198	0.170 to 0.230	95.0	70.0 to 130	0.401	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/17/22 09:28  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-21

**Laboratory ID Number:** BC05683

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05685	Iron, Total	mg/L	-0.000366	0.0176	0.2	2.55	2.54	0.196	0.170 to 0.230	90.0	70.0 to 130	0.393	20.0
BC05686	Lead, Dissolved	mg/L	0.0000035	0.000147	0.100	0.0962	0.0973	0.0984	0.0850 to 0.115	96.2	70.0 to 130	1.14	20.0
BC05685	Lead, Total	mg/L	-0.0000022	0.000147	0.100	0.0973	0.0991	0.0989	0.0850 to 0.115	97.3	70.0 to 130	1.83	20.0
BC05686	Lithium, Dissolved	mg/L	-0.000245	0.0154	0.200	0.355	0.355	0.200	0.170 to 0.230	101	70.0 to 130	0.00	20.0
BC05685	Lithium, Total	mg/L	0.0000005	0.0154	0.200	0.287	0.295	0.202	0.170 to 0.230	99.5	70.0 to 130	2.75	20.0
BC05686	Magnesium, Dissolved	mg/L	-0.00632	0.0462	5.00	92.5	91.3	5.13	4.25 to 5.75	114	70.0 to 130	1.31	20.0
BC05685	Magnesium, Total	mg/L	-0.000858	0.0462	5.00	94.0	91.5	5.09	4.25 to 5.75	92.0	70.0 to 130	2.70	20.0
BC05686	Manganese, Dissolved	mg/L	-0.0000044	0.0002	0.100	0.202	0.196	0.105	0.0850 to 0.115	98.0	70.0 to 130	3.02	20.0
BC05685	Manganese, Total	mg/L	0.0000292	0.0002	0.100	0.213	0.220	0.104	0.0850 to 0.115	91.0	70.0 to 130	3.23	20.0
BC05692	Mercury, Total by CVAA	mg/L	0.00000	0.000500	0.004	0.00401	0.00399	0.004	0.00340 to 0.00460	100	70.0 to 130	0.500	20.0
BC05686	Molybdenum, Dissolved	mg/L	0.0000088	0.0002	0.100	0.0961	0.0951	0.0983	0.0850 to 0.115	95.8	70.0 to 130	1.05	20.0
BC05685	Molybdenum, Total	mg/L	0.0000171	0.0002	0.100	0.0980	0.0965	0.100	0.0850 to 0.115	95.7	70.0 to 130	1.54	20.0
BC05686	Potassium, Dissolved	mg/L	0.00485	0.367	10.0	16.5	16.4	10.6	8.50 to 11.5	98.2	70.0 to 130	0.608	20.0
BC05685	Potassium, Total	mg/L	0.00208	0.367	10.0	24.9	25.4	10.5	8.50 to 11.5	92.0	70.0 to 130	1.99	20.0
BC05686	Selenium, Dissolved	mg/L	0.000179	0.00100	0.100	0.100	0.102	0.105	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC05685	Selenium, Total	mg/L	-0.0000256	0.00100	0.100	0.0980	0.0998	0.105	0.0850 to 0.115	98.0	70.0 to 130	1.82	20.0
BC05686	Silicon, Dissolved	mg/L	-0.000753	0.0440	1.00	7.63	7.62	0.991	0.850 to 1.15	104	70.0 to 130	0.131	20.0
BC05685	Silicon, Total	mg/L	-0.000676	0.0440	1.00	11.5	11.5	1.02	0.850 to 1.15	90.0	70.0 to 130	0.00	20.0
BC05686	Sodium, Dissolved	mg/L	0.0216	0.0660	5.00	68.6	68.0	5.04	4.25 to 5.75	96.0	70.0 to 130	0.878	20.0
BC05685	Sodium, Total	mg/L	0.000376	0.0660	5.00	134	131	5.08	4.25 to 5.75	80.0	70.0 to 130	2.26	20.0
BC05692	Sulfate	mg/L	0.122	2.0	80.0	115	115	19.9	18.0 to 22.0	102	80.0 to 120	0.00	20.0
BC05686	Thallium, Dissolved	mg/L	0.0000022	0.000147	0.100	0.100	0.100	0.102	0.0850 to 0.115	100	70.0 to 130	0.00	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/17/22 09:28  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-21

**Laboratory ID Number:** BC05683

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05685	Thallium, Total	mg/L	0.0000003	0.000147	0.100	0.102	0.103	0.102	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC05683	Total Organic Carbon	mg/L	0.310	1.00	10.0	10.6	10.8	9.90		106	80.0 to 120	1.87	20.0

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**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

## Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/17/22 09:28  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-21

**Laboratory ID Number:** BC05683

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05696	Alkalinity, Total as CaCO3	mg/L					112	50.8	45.0 to 55.0			2.71	10.0
BC05692	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	2.75	0.823	1.94	1.80 to 2.20	94.0	90.0 to 110	5.55	15.0
BC05696	Solids, Dissolved	mg/L	1.00	25.0			4400	50.0	40.0 to 60.0			4.44	10.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-37H

**Location Code:** WMWMILAP  
**Collected:** 3/17/22 10:49  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05684

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	3/28/22 15:00	3/29/22 10:17		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	3/28/22 15:00	3/29/22 10:17		1.015	38.2	mg/L	0.070035	0.406		
* Iron, Total	3/28/22 15:00	3/29/22 10:17		1.015	0.478	mg/L	0.008120	0.0406		
* Lithium, Total	3/28/22 15:00	3/29/22 10:17		1.015	0.0588	mg/L	0.007105	0.01999956		
* Magnesium, Total	3/28/22 15:00	3/29/22 10:17		1.015	13.1	mg/L	0.021315	0.406		
Silica, Total (calc.)	3/28/22 15:00	3/29/22 10:17		1	24.8	mg/L				
Silicon, Total	3/28/22 15:00	3/29/22 10:17		1.015	11.6	mg/L	0.02030	0.25375		
* Sodium, Total	3/28/22 15:00	3/29/22 12:53		20.3	58.6	mg/L	0.609	8.12		
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Dissolved	3/28/22 15:00	3/29/22 11:47		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Dissolved	3/28/22 15:00	3/29/22 11:47		1.015	38.3	mg/L	0.070035	0.406		
* Iron, Dissolved	3/28/22 15:00	3/29/22 11:47		1.015	0.337	mg/L	0.008120	0.0406		
* Lithium, Dissolved	3/28/22 15:00	3/29/22 11:47		1.015	0.0581	mg/L	0.007105	0.01999956		
* Magnesium, Dissolved	3/28/22 15:00	3/29/22 11:47		1.015	13.2	mg/L	0.021315	0.406		
Silica, Dissolved (calc.)	3/28/22 15:00	3/29/22 11:47		1	24.6	mg/L				
Silicon, Dissolved	3/28/22 15:00	3/29/22 11:47		1.015	11.5	mg/L	0.02030	0.25375		
* Sodium, Dissolved	3/28/22 15:00	3/29/22 13:43		20.3	62.1	mg/L	0.609	8.12		
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	3/21/22 10:00	3/21/22 18:16		1.015	0.00105	mg/L	0.000508	0.001015		
* Aluminum, Total	3/21/22 10:00	3/21/22 18:16		1.015	0.00625	mg/L	0.006090	0.01015	J	
* Arsenic, Total	3/21/22 10:00	3/21/22 18:16		1.015	0.00148	mg/L	0.000081	0.000203		
* Barium, Total	3/21/22 10:00	3/21/22 18:16		1.015	0.103	mg/L	0.000102	0.000203		
* Beryllium, Total	3/21/22 10:00	3/21/22 18:16		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	3/21/22 10:00	3/21/22 18:16		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	3/21/22 10:00	3/21/22 18:16		1.015	0.000204	mg/L	0.000203	0.001015	J	
* Cobalt, Total	3/21/22 10:00	3/21/22 18:16		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	3/21/22 10:00	3/21/22 18:16		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	3/21/22 10:00	3/21/22 18:16		1.015	0.0135	mg/L	0.000152	0.000203		
* Molybdenum, Total	3/21/22 10:00	3/21/22 18:16		1.015	Not Detected	mg/L	0.000102	0.000203	U	
* Potassium, Total	3/21/22 10:00	3/21/22 18:16		1.015	2.09	mg/L	0.169505	0.5075		

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.



# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-37H

**Location Code:** WMWMILAP  
**Collected:** 3/17/22 10:49  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05684

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/21/22 10:00	3/21/22 18:16		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/21/22 10:00	3/21/22 18:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	3/21/22 11:05	3/21/22 16:23		1.015	0.000705	mg/L	0.000508	0.001015	J
* Aluminum, Dissolved	3/21/22 11:05	3/21/22 16:23		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/21/22 11:05	3/21/22 16:23		1.015	0.000603	mg/L	0.000081	0.000203	
* Barium, Dissolved	3/21/22 11:05	3/21/22 16:23		1.015	0.105	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/21/22 11:05	3/21/22 16:23		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/21/22 11:05	3/21/22 16:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/21/22 11:05	3/21/22 16:23		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	3/21/22 11:05	3/21/22 16:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	3/21/22 11:05	3/21/22 16:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/21/22 11:05	3/21/22 16:23		1.015	0.0136	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/21/22 11:05	3/21/22 16:23		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	3/21/22 11:05	3/21/22 16:23		1.015	2.05	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/21/22 11:05	3/21/22 16:23		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/21/22 11:05	3/21/22 16:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	3/18/22 17:13	3/18/22 23:12		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: ELH</b>							
* Nitrogen, Nitrate/Nitrite	3/23/22 13:38	3/23/22 13:38		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity, Total as CaCO3	3/29/22 12:50	3/29/22 15:42		1	250	mg/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	3/23/22 13:04	3/24/22 14:33		1	305	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
Bicarbonate Alkalinity, (calc.)	3/29/22 12:50	3/29/22 15:42		1	246	mg/L			
Carbonate Alkalinity, (calc.)	3/29/22 12:50	3/29/22 15:42		1	3.84	mg/L			
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/21/22 15:02	3/21/22 15:02		1	Not Detected	mg/L	1.00	2	U

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-37H

**Location Code:** WMWMILAP  
**Collected:** 3/17/22 10:49  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05684

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/21/22 11:53	3/21/22 11:53		1	10.9	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 10:39	3/22/22 10:39		1	0.132	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/24/22 12:49	3/24/22 12:49		1	36.0	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	3/17/22 10:46	3/17/22 10:46			498.16	uS/cm			FA
pH	3/17/22 10:46	3/17/22 10:46			7.12	SU			FA
Temperature	3/17/22 10:46	3/17/22 10:46			17.67	C			FA
Turbidity	3/17/22 10:46	3/17/22 10:46			1.89	NTU			FA

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/17/22 10:49  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-37H

**Laboratory ID Number:** BC05684

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05686	Aluminum, Dissolved	mg/L	-0.000828	0.010	0.100	0.0960	0.0932	0.103	0.0850 to 0.115	96.0	70.0 to 130	2.96	20.0
BC05685	Aluminum, Total	mg/L	-0.000159	0.010	0.100	0.0991	0.102	0.104	0.0850 to 0.115	99.1	70.0 to 130	2.88	20.0
BC05686	Antimony, Dissolved	mg/L	0.000289	0.00100	0.100	0.0980	0.0954	0.0944	0.0850 to 0.115	98.0	70.0 to 130	2.69	20.0
BC05685	Antimony, Total	mg/L	0.000261	0.00100	0.100	0.0956	0.0957	0.0950	0.0850 to 0.115	95.6	70.0 to 130	0.105	20.0
BC05686	Arsenic, Dissolved	mg/L	0.0000140	0.000176	0.100	0.100	0.0987	0.103	0.0850 to 0.115	99.9	70.0 to 130	1.31	20.0
BC05685	Arsenic, Total	mg/L	0.0000387	0.000176	0.100	0.0998	0.100	0.104	0.0850 to 0.115	98.7	70.0 to 130	0.200	20.0
BC05686	Barium, Dissolved	mg/L	-0.0000261	0.000200	0.100	0.119	0.119	0.102	0.0850 to 0.115	95.7	70.0 to 130	0.00	20.0
BC05685	Barium, Total	mg/L	0.0000059	0.000200	0.100	0.114	0.114	0.0997	0.0850 to 0.115	92.6	70.0 to 130	0.00	20.0
BC05686	Beryllium, Dissolved	mg/L	0.0000422	0.000880	0.100	0.0907	0.0907	0.0905	0.0850 to 0.115	90.7	70.0 to 130	0.00	20.0
BC05685	Beryllium, Total	mg/L	0.0000184	0.000880	0.100	0.0904	0.0897	0.0982	0.0850 to 0.115	90.4	70.0 to 130	0.777	20.0
BC05686	Boron, Dissolved	mg/L	-0.000298	0.0650	1.00	1.06	1.04	0.986	0.850 to 1.15	102	70.0 to 130	1.90	20.0
BC05685	Boron, Total	mg/L	-0.000196	0.0650	1.00	1.04	1.05	0.985	0.850 to 1.15	100	70.0 to 130	0.957	20.0
BC05686	Cadmium, Dissolved	mg/L	0.0000066	0.000147	0.100	0.0967	0.0965	0.104	0.0850 to 0.115	96.7	70.0 to 130	0.207	20.0
BC05685	Cadmium, Total	mg/L	0.0000062	0.000147	0.100	0.0958	0.0958	0.106	0.0850 to 0.115	95.8	70.0 to 130	0.00	20.0
BC05686	Calcium, Dissolved	mg/L	-0.00416	0.152	5.00	180	180	4.83	4.25 to 5.75	80.0	70.0 to 130	0.00	20.0
BC05685	Calcium, Total	mg/L	-0.000866	0.152	5.00	201	197	4.78	4.25 to 5.75	60.0	70.0 to 130	2.01	20.0
BC05693	Chloride	mg/L	0.00143	1.00	200	322	345	10.1	9.00 to 11.0	97.5	80.0 to 120	6.90	20.0
BC05686	Chromium, Dissolved	mg/L	-0.0000315	0.000440	0.100	0.0950	0.0930	0.103	0.0850 to 0.115	95.0	70.0 to 130	2.13	20.0
BC05685	Chromium, Total	mg/L	0.0000096	0.000440	0.100	0.0943	0.0962	0.102	0.0850 to 0.115	94.1	70.0 to 130	1.99	20.0
BC05686	Cobalt, Dissolved	mg/L	0.0000005	0.000147	0.100	0.0966	0.0951	0.106	0.0850 to 0.115	96.6	70.0 to 130	1.56	20.0
BC05685	Cobalt, Total	mg/L	0.0000005	0.000147	0.100	0.0963	0.0977	0.105	0.0850 to 0.115	96.3	70.0 to 130	1.44	20.0
BC05692	Fluoride	mg/L	-0.0193	0.125	2.50	2.95	2.93	2.59	2.25 to 2.75	102	80.0 to 120	0.680	20.0
BC05686	Iron, Dissolved	mg/L	-0.000434	0.0176	0.2	4.98	5.00	0.198	0.170 to 0.230	95.0	70.0 to 130	0.401	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/17/22 10:49  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-37H

**Laboratory ID Number:** BC05684

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05685	Iron, Total	mg/L	-0.000366	0.0176	0.2	2.55	2.54	0.196	0.170 to 0.230	90.0	70.0 to 130	0.393	20.0
BC05686	Lead, Dissolved	mg/L	0.0000035	0.000147	0.100	0.0962	0.0973	0.0984	0.0850 to 0.115	96.2	70.0 to 130	1.14	20.0
BC05685	Lead, Total	mg/L	-0.0000022	0.000147	0.100	0.0973	0.0991	0.0989	0.0850 to 0.115	97.3	70.0 to 130	1.83	20.0
BC05686	Lithium, Dissolved	mg/L	-0.000245	0.0154	0.200	0.355	0.355	0.200	0.170 to 0.230	101	70.0 to 130	0.00	20.0
BC05685	Lithium, Total	mg/L	0.000005	0.0154	0.200	0.287	0.295	0.202	0.170 to 0.230	99.5	70.0 to 130	2.75	20.0
BC05686	Magnesium, Dissolved	mg/L	-0.00632	0.0462	5.00	92.5	91.3	5.13	4.25 to 5.75	114	70.0 to 130	1.31	20.0
BC05685	Magnesium, Total	mg/L	-0.000858	0.0462	5.00	94.0	91.5	5.09	4.25 to 5.75	92.0	70.0 to 130	2.70	20.0
BC05686	Manganese, Dissolved	mg/L	-0.0000044	0.0002	0.100	0.202	0.196	0.105	0.0850 to 0.115	98.0	70.0 to 130	3.02	20.0
BC05685	Manganese, Total	mg/L	0.0000292	0.0002	0.100	0.213	0.220	0.104	0.0850 to 0.115	91.0	70.0 to 130	3.23	20.0
BC05692	Mercury, Total by CVAA	mg/L	0.00000	0.000500	0.004	0.00401	0.00399	0.004	0.00340 to 0.00460	100	70.0 to 130	0.500	20.0
BC05686	Molybdenum, Dissolved	mg/L	0.0000088	0.0002	0.100	0.0961	0.0951	0.0983	0.0850 to 0.115	95.8	70.0 to 130	1.05	20.0
BC05685	Molybdenum, Total	mg/L	0.0000171	0.0002	0.100	0.0980	0.0965	0.100	0.0850 to 0.115	95.7	70.0 to 130	1.54	20.0
BC05686	Potassium, Dissolved	mg/L	0.00485	0.367	10.0	16.5	16.4	10.6	8.50 to 11.5	98.2	70.0 to 130	0.608	20.0
BC05685	Potassium, Total	mg/L	0.00208	0.367	10.0	24.9	25.4	10.5	8.50 to 11.5	92.0	70.0 to 130	1.99	20.0
BC05686	Selenium, Dissolved	mg/L	0.000179	0.00100	0.100	0.100	0.102	0.105	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC05685	Selenium, Total	mg/L	-0.0000256	0.00100	0.100	0.0980	0.0998	0.105	0.0850 to 0.115	98.0	70.0 to 130	1.82	20.0
BC05686	Silicon, Dissolved	mg/L	-0.000753	0.0440	1.00	7.63	7.62	0.991	0.850 to 1.15	104	70.0 to 130	0.131	20.0
BC05685	Silicon, Total	mg/L	-0.000676	0.0440	1.00	11.5	11.5	1.02	0.850 to 1.15	90.0	70.0 to 130	0.00	20.0
BC05686	Sodium, Dissolved	mg/L	0.0216	0.0660	5.00	68.6	68.0	5.04	4.25 to 5.75	96.0	70.0 to 130	0.878	20.0
BC05685	Sodium, Total	mg/L	0.000376	0.0660	5.00	134	131	5.08	4.25 to 5.75	80.0	70.0 to 130	2.26	20.0
BC05692	Sulfate	mg/L	0.122	2.0	80.0	115	115	19.9	18.0 to 22.0	102	80.0 to 120	0.00	20.0
BC05686	Thallium, Dissolved	mg/L	0.0000022	0.000147	0.100	0.100	0.100	0.102	0.0850 to 0.115	100	70.0 to 130	0.00	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/17/22 10:49  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-37H

**Laboratory ID Number:** BC05684

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BC05685	Thallium, Total	mg/L	0.0000003	0.000147	0.100	0.102	0.103	0.102	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC05693	Total Organic Carbon	mg/L	0.350	1.00	10.0	10.4	10.1	9.79		104	80.0 to 120	2.93	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

## Batch QC Summary

**Customer Account:** WMWMILAP

**Sample Date:** 3/17/22 10:49

**Customer ID:**

**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-37H

**Laboratory ID Number:** BC05684

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec Rec	Rec Limit	Prec	Prec Limit
BC05696	Alkalinity, Total as CaCO3	mg/L					112	50.8	45.0 to 55.0			2.71	10.0
BC05692	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	2.75	0.823	1.94	1.80 to 2.20	94.0	90.0 to 110	5.55	15.0
BC05696	Solids, Dissolved	mg/L	1.00	25.0			4400	50.0	40.0 to 60.0			4.44	10.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-30H

**Location Code:** WMWMILAP  
**Collected:** 3/16/22 11:10  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05685

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	3/28/22 15:00	3/29/22 10:18		1.015	0.0394	mg/L	0.030000	0.1015	J	
* Calcium, Total	3/28/22 15:00	3/29/22 12:55		20.3	198	mg/L	1.4007	8.12	RA	
* Iron, Total	3/28/22 15:00	3/29/22 10:18		1.015	2.37	mg/L	0.008120	0.0406		
* Lithium, Total	3/28/22 15:00	3/29/22 10:18		1.015	0.0880	mg/L	0.007105	0.01999956		
* Magnesium, Total	3/28/22 15:00	3/29/22 12:55		20.3	89.4	mg/L	0.4263	8.12	RA	
Silica, Total (calc.)	3/28/22 15:00	3/29/22 10:18		1	22.7	mg/L				
Silicon, Total	3/28/22 15:00	3/29/22 10:18		1.015	10.6	mg/L	0.02030	0.25375		
* Sodium, Total	3/28/22 15:00	3/29/22 12:55		20.3	130	mg/L	0.609	8.12	RA	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Dissolved	3/28/22 15:00	3/29/22 11:49		1.015	0.0385	mg/L	0.030000	0.1015	J	
* Calcium, Dissolved	3/28/22 15:00	3/29/22 13:45		20.3	201	mg/L	1.4007	8.12		
* Iron, Dissolved	3/28/22 15:00	3/29/22 11:49		1.015	2.19	mg/L	0.008120	0.0406		
* Lithium, Dissolved	3/28/22 15:00	3/29/22 11:49		1.015	0.0866	mg/L	0.007105	0.01999956		
* Magnesium, Dissolved	3/28/22 15:00	3/29/22 13:45		20.3	90.7	mg/L	0.4263	8.12		
Silica, Dissolved (calc.)	3/28/22 15:00	3/29/22 11:49		1	22.5	mg/L				
Silicon, Dissolved	3/28/22 15:00	3/29/22 11:49		1.015	10.5	mg/L	0.02030	0.25375		
* Sodium, Dissolved	3/28/22 15:00	3/29/22 13:45		20.3	131	mg/L	0.609	8.12		
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	3/21/22 10:00	3/21/22 18:20		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	3/21/22 10:00	3/21/22 18:20		1.015	Not Detected	mg/L	0.006090	0.01015	U	
* Arsenic, Total	3/21/22 10:00	3/21/22 18:20		1.015	0.00110	mg/L	0.000081	0.000203		
* Barium, Total	3/21/22 10:00	3/21/22 18:20		1.015	0.0214	mg/L	0.000102	0.000203		
* Beryllium, Total	3/21/22 10:00	3/21/22 18:20		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	3/21/22 10:00	3/21/22 18:20		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	3/21/22 10:00	3/21/22 18:20		1.015	0.000215	mg/L	0.000203	0.001015	J	
* Cobalt, Total	3/21/22 10:00	3/21/22 18:20		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	3/21/22 10:00	3/21/22 18:20		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	3/21/22 10:00	3/21/22 18:20		1.015	0.122	mg/L	0.000152	0.000203		
* Molybdenum, Total	3/21/22 10:00	3/21/22 18:20		1.015	0.00234	mg/L	0.000102	0.000203		
* Potassium, Total	3/21/22 10:00	3/21/22 18:20		1.015	15.7	mg/L	0.169505	0.5075		

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-30H

**Location Code:** WMWMILAP  
**Collected:** 3/16/22 11:10  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05685

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/21/22 10:00	3/21/22 18:20		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/21/22 10:00	3/21/22 18:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	3/21/22 11:05	3/21/22 16:27		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/21/22 11:05	3/21/22 16:27		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/21/22 11:05	3/21/22 16:27		1.015	0.000718	mg/L	0.000081	0.000203	
* Barium, Dissolved	3/21/22 11:05	3/21/22 16:27		1.015	0.0222	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/21/22 11:05	3/21/22 16:27		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/21/22 11:05	3/21/22 16:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/21/22 11:05	3/21/22 16:27		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	3/21/22 11:05	3/21/22 16:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	3/21/22 11:05	3/21/22 16:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/21/22 11:05	3/21/22 16:27		1.015	0.119	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/21/22 11:05	3/21/22 16:27		1.015	0.00117	mg/L	0.000102	0.000203	
* Potassium, Dissolved	3/21/22 11:05	3/21/22 16:27		1.015	15.2	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/21/22 11:05	3/21/22 16:27		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/21/22 11:05	3/21/22 16:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	3/18/22 17:13	3/18/22 23:16		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: ELH</b>							
* Nitrogen, Nitrate/Nitrite	3/23/22 13:40	3/23/22 13:40		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity, Total as CaCO3	3/29/22 12:50	3/29/22 15:42		1	250	mg/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	3/18/22 10:38	3/21/22 13:52		1	1380	mg/L		100	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
Bicarbonate Alkalinity, (calc.)	3/29/22 12:50	3/29/22 15:42		1	249	mg/L			A
Carbonate Alkalinity, (calc.)	3/29/22 12:50	3/29/22 15:42		1	0.51	mg/L			A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/21/22 15:18	3/21/22 15:18		1	4.82	mg/L	1.00	2	

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.



# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-30H

**Location Code:** WMWMILAP  
**Collected:** 3/16/22 11:10  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05685

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/21/22 11:54	3/21/22 11:54		10	99.5	mg/L	5.00	10	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 10:40	3/22/22 10:40		1	0.142	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/24/22 12:50	3/24/22 12:50		32	761	mg/L	19.2	64	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: AWG</b>							
Conductivity	3/16/22 11:07	3/16/22 11:07			1784.20	uS/cm			FA
pH	3/16/22 11:07	3/16/22 11:07			6.72	SU			FA
Temperature	3/16/22 11:07	3/16/22 11:07			16.70	C			FA
Turbidity	3/16/22 11:07	3/16/22 11:07			1.97	NTU			FA

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

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**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/16/22 11:10  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-30H

**Laboratory ID Number:** BC05685

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC05686	Aluminum, Dissolved	mg/L	-0.000828	0.010	0.100	0.0960	0.0932	0.103	0.0850 to 0.115	96.0	70.0 to 130	2.96	20.0
BC05685	Aluminum, Total	mg/L	-0.000159	0.010	0.100	0.0991	0.102	0.104	0.0850 to 0.115	99.1	70.0 to 130	2.88	20.0
BC05686	Antimony, Dissolved	mg/L	0.000289	0.00100	0.100	0.0980	0.0954	0.0944	0.0850 to 0.115	98.0	70.0 to 130	2.69	20.0
BC05685	Antimony, Total	mg/L	0.000261	0.00100	0.100	0.0956	0.0957	0.0950	0.0850 to 0.115	95.6	70.0 to 130	0.105	20.0
BC05686	Arsenic, Dissolved	mg/L	0.0000140	0.000176	0.100	0.100	0.0987	0.103	0.0850 to 0.115	99.9	70.0 to 130	1.31	20.0
BC05685	Arsenic, Total	mg/L	0.0000387	0.000176	0.100	0.0998	0.100	0.104	0.0850 to 0.115	98.7	70.0 to 130	0.200	20.0
BC05686	Barium, Dissolved	mg/L	-0.0000261	0.000200	0.100	0.119	0.119	0.102	0.0850 to 0.115	95.7	70.0 to 130	0.00	20.0
BC05685	Barium, Total	mg/L	0.0000059	0.000200	0.100	0.114	0.114	0.0997	0.0850 to 0.115	92.6	70.0 to 130	0.00	20.0
BC05686	Beryllium, Dissolved	mg/L	0.0000422	0.000880	0.100	0.0907	0.0907	0.0905	0.0850 to 0.115	90.7	70.0 to 130	0.00	20.0
BC05685	Beryllium, Total	mg/L	0.0000184	0.000880	0.100	0.0904	0.0897	0.0982	0.0850 to 0.115	90.4	70.0 to 130	0.777	20.0
BC05686	Boron, Dissolved	mg/L	-0.000298	0.0650	1.00	1.06	1.04	0.986	0.850 to 1.15	102	70.0 to 130	1.90	20.0
BC05685	Boron, Total	mg/L	-0.000196	0.0650	1.00	1.04	1.05	0.985	0.850 to 1.15	100	70.0 to 130	0.957	20.0
BC05686	Cadmium, Dissolved	mg/L	0.0000066	0.000147	0.100	0.0967	0.0965	0.104	0.0850 to 0.115	96.7	70.0 to 130	0.207	20.0
BC05685	Cadmium, Total	mg/L	0.0000062	0.000147	0.100	0.0958	0.0958	0.106	0.0850 to 0.115	95.8	70.0 to 130	0.00	20.0
BC05686	Calcium, Dissolved	mg/L	-0.00416	0.152	5.00	180	180	4.83	4.25 to 5.75	80.0	70.0 to 130	0.00	20.0
BC05685	Calcium, Total	mg/L	-0.000866	0.152	5.00	201	197	4.78	4.25 to 5.75	60.0	70.0 to 130	2.01	20.0
BC05693	Chloride	mg/L	0.00143	1.00	200	322	345	10.1	9.00 to 11.0	97.5	80.0 to 120	6.90	20.0
BC05686	Chromium, Dissolved	mg/L	-0.0000315	0.000440	0.100	0.0950	0.0930	0.103	0.0850 to 0.115	95.0	70.0 to 130	2.13	20.0
BC05685	Chromium, Total	mg/L	0.0000096	0.000440	0.100	0.0943	0.0962	0.102	0.0850 to 0.115	94.1	70.0 to 130	1.99	20.0
BC05686	Cobalt, Dissolved	mg/L	0.0000005	0.000147	0.100	0.0966	0.0951	0.106	0.0850 to 0.115	96.6	70.0 to 130	1.56	20.0
BC05685	Cobalt, Total	mg/L	0.0000005	0.000147	0.100	0.0963	0.0977	0.105	0.0850 to 0.115	96.3	70.0 to 130	1.44	20.0
BC05692	Fluoride	mg/L	-0.0193	0.125	2.50	2.95	2.93	2.59	2.25 to 2.75	102	80.0 to 120	0.680	20.0
BC05686	Iron, Dissolved	mg/L	-0.000434	0.0176	0.2	4.98	5.00	0.198	0.170 to 0.230	95.0	70.0 to 130	0.401	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/16/22 11:10  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-30H

**Laboratory ID Number:** BC05685

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05685	Iron, Total	mg/L	-0.000366	0.0176	0.2	2.55	2.54	0.196	0.170 to 0.230	90.0	70.0 to 130	0.393	20.0
BC05686	Lead, Dissolved	mg/L	0.0000035	0.000147	0.100	0.0962	0.0973	0.0984	0.0850 to 0.115	96.2	70.0 to 130	1.14	20.0
BC05685	Lead, Total	mg/L	-0.0000022	0.000147	0.100	0.0973	0.0991	0.0989	0.0850 to 0.115	97.3	70.0 to 130	1.83	20.0
BC05686	Lithium, Dissolved	mg/L	-0.000245	0.0154	0.200	0.355	0.355	0.200	0.170 to 0.230	101	70.0 to 130	0.00	20.0
BC05685	Lithium, Total	mg/L	0.0000005	0.0154	0.200	0.287	0.295	0.202	0.170 to 0.230	99.5	70.0 to 130	2.75	20.0
BC05686	Magnesium, Dissolved	mg/L	-0.00632	0.0462	5.00	92.5	91.3	5.13	4.25 to 5.75	114	70.0 to 130	1.31	20.0
BC05685	Magnesium, Total	mg/L	-0.000858	0.0462	5.00	94.0	91.5	5.09	4.25 to 5.75	92.0	70.0 to 130	2.70	20.0
BC05686	Manganese, Dissolved	mg/L	-0.0000044	0.0002	0.100	0.202	0.196	0.105	0.0850 to 0.115	98.0	70.0 to 130	3.02	20.0
BC05685	Manganese, Total	mg/L	0.0000292	0.0002	0.100	0.213	0.220	0.104	0.0850 to 0.115	91.0	70.0 to 130	3.23	20.0
BC05692	Mercury, Total by CVAA	mg/L	0.00000	0.000500	0.004	0.00401	0.00399	0.004	0.00340 to 0.00460	100	70.0 to 130	0.500	20.0
BC05686	Molybdenum, Dissolved	mg/L	0.0000088	0.0002	0.100	0.0961	0.0951	0.0983	0.0850 to 0.115	95.8	70.0 to 130	1.05	20.0
BC05685	Molybdenum, Total	mg/L	0.0000171	0.0002	0.100	0.0980	0.0965	0.100	0.0850 to 0.115	95.7	70.0 to 130	1.54	20.0
BC05686	Potassium, Dissolved	mg/L	0.00485	0.367	10.0	16.5	16.4	10.6	8.50 to 11.5	98.2	70.0 to 130	0.608	20.0
BC05685	Potassium, Total	mg/L	0.00208	0.367	10.0	24.9	25.4	10.5	8.50 to 11.5	92.0	70.0 to 130	1.99	20.0
BC05686	Selenium, Dissolved	mg/L	0.000179	0.00100	0.100	0.100	0.102	0.105	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC05685	Selenium, Total	mg/L	-0.0000256	0.00100	0.100	0.0980	0.0998	0.105	0.0850 to 0.115	98.0	70.0 to 130	1.82	20.0
BC05686	Silicon, Dissolved	mg/L	-0.000753	0.0440	1.00	7.63	7.62	0.991	0.850 to 1.15	104	70.0 to 130	0.131	20.0
BC05685	Silicon, Total	mg/L	-0.000676	0.0440	1.00	11.5	11.5	1.02	0.850 to 1.15	90.0	70.0 to 130	0.00	20.0
BC05686	Sodium, Dissolved	mg/L	0.0216	0.0660	5.00	68.6	68.0	5.04	4.25 to 5.75	96.0	70.0 to 130	0.878	20.0
BC05685	Sodium, Total	mg/L	0.000376	0.0660	5.00	134	131	5.08	4.25 to 5.75	80.0	70.0 to 130	2.26	20.0
BC05692	Sulfate	mg/L	0.122	2.0	80.0	115	115	19.9	18.0 to 22.0	102	80.0 to 120	0.00	20.0
BC05686	Thallium, Dissolved	mg/L	0.0000022	0.000147	0.100	0.100	0.100	0.102	0.0850 to 0.115	100	70.0 to 130	0.00	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/16/22 11:10  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-30H

**Laboratory ID Number:** BC05685

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05685	Thallium, Total	mg/L	0.0000003	0.000147	0.100	0.102	0.103	0.102	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC05693	Total Organic Carbon	mg/L	0.350	1.00	10.0	10.4	10.1	9.79		104	80.0 to 120	2.93	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

## Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/16/22 11:10  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-30H

**Laboratory ID Number:** BC05685

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05696	Alkalinity, Total as CaCO3	mg/L					112	50.8	45.0 to 55.0			2.71	10.0
BC05692	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	2.75	0.823	1.94	1.80 to 2.20	94.0	90.0 to 110	5.55	15.0
BC05695	Solids, Dissolved	mg/L	1.00	25.0			386	52.0	40.0 to 60.0			1.29	10.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-11

**Location Code:** WMWMILAP  
**Collected:** 3/16/22 13:27  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05686

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	3/28/22 15:00	3/29/22 10:31		1.015	0.0357	mg/L	0.030000	0.1015	J	
* Calcium, Total	3/28/22 15:00	3/29/22 13:08		10.15	173	mg/L	0.70035	4.06		
* Iron, Total	3/28/22 15:00	3/29/22 13:08		10.15	4.74	mg/L	0.08120	0.406		
* Lithium, Total	3/28/22 15:00	3/29/22 10:31		1.015	0.172	mg/L	0.007105	0.01999956		
* Magnesium, Total	3/28/22 15:00	3/29/22 13:08		10.15	81.3	mg/L	0.21315	4.06		
Silica, Total (calc.)	3/28/22 15:00	3/29/22 10:31		1	13.4	mg/L				
Silicon, Total	3/28/22 15:00	3/29/22 10:31		1.015	6.27	mg/L	0.02030	0.25375		
* Sodium, Total	3/28/22 15:00	3/29/22 13:08		10.15	65.6	mg/L	0.3045	4.06		
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Dissolved	3/28/22 15:00	3/29/22 11:51		1.015	0.0358	mg/L	0.030000	0.1015	J	
* Calcium, Dissolved	3/28/22 15:00	3/29/22 13:47		20.3	176	mg/L	1.4007	8.12		
* Iron, Dissolved	3/28/22 15:00	3/29/22 13:47		20.3	4.79	mg/L	0.1624	0.812		
* Lithium, Dissolved	3/28/22 15:00	3/29/22 11:51		1.015	0.153	mg/L	0.007105	0.01999956		
* Magnesium, Dissolved	3/28/22 15:00	3/29/22 13:47		20.3	86.8	mg/L	0.4263	8.12		
Silica, Dissolved (calc.)	3/28/22 15:00	3/29/22 11:51		1	14.1	mg/L				
Silicon, Dissolved	3/28/22 15:00	3/29/22 11:51		1.015	6.59	mg/L	0.02030	0.25375		
* Sodium, Dissolved	3/28/22 15:00	3/29/22 13:47		20.3	63.8	mg/L	0.609	8.12		
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	3/21/22 10:00	3/21/22 18:41		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	3/21/22 10:00	3/21/22 18:41		1.015	Not Detected	mg/L	0.006090	0.01015	U	
* Arsenic, Total	3/21/22 10:00	3/21/22 18:41		1.015	0.000117	mg/L	0.000081	0.000203	J	
* Barium, Total	3/21/22 10:00	3/21/22 18:41		1.015	0.0310	mg/L	0.000102	0.000203		
* Beryllium, Total	3/21/22 10:00	3/21/22 18:41		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	3/21/22 10:00	3/21/22 18:41		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	3/21/22 10:00	3/21/22 18:41		1.015	0.000274	mg/L	0.000203	0.001015	J	
* Cobalt, Total	3/21/22 10:00	3/21/22 18:41		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	3/21/22 10:00	3/21/22 18:41		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	3/21/22 10:00	3/21/22 18:41		1.015	0.102	mg/L	0.000152	0.000203		
* Molybdenum, Total	3/21/22 10:00	3/21/22 18:41		1.015	0.000387	mg/L	0.000102	0.000203		
* Potassium, Total	3/21/22 10:00	3/21/22 18:41		1.015	8.83	mg/L	0.169505	0.5075		

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-11

**Location Code:** WMWMILAP  
**Collected:** 3/16/22 13:27  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05686

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/21/22 10:00	3/21/22 18:41		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/21/22 10:00	3/21/22 18:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	3/21/22 11:05	3/21/22 16:31		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/21/22 11:05	3/21/22 16:31		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/21/22 11:05	3/21/22 16:31		1.015	0.0000929	mg/L	0.000081	0.000203	J
* Barium, Dissolved	3/21/22 11:05	3/21/22 16:31		1.015	0.0233	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/21/22 11:05	3/21/22 16:31		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/21/22 11:05	3/21/22 16:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/21/22 11:05	3/21/22 16:31		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	3/21/22 11:05	3/21/22 16:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	3/21/22 11:05	3/21/22 16:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/21/22 11:05	3/21/22 16:31		1.015	0.104	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/21/22 11:05	3/21/22 16:31		1.015	0.000319	mg/L	0.000102	0.000203	
* Potassium, Dissolved	3/21/22 11:05	3/21/22 16:31		1.015	6.68	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/21/22 11:05	3/21/22 16:31		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/21/22 11:05	3/21/22 16:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	3/18/22 17:13	3/18/22 23:20		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: ELH</b>							
* Nitrogen, Nitrate/Nitrite	3/23/22 13:42	3/23/22 13:42		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity, Total as CaCO3	3/29/22 12:50	3/29/22 15:42		1	201	mg/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	3/18/22 10:38	3/21/22 13:52		1	1120	mg/L		75.8	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
Bicarbonate Alkalinity, (calc.)	3/29/22 12:50	3/29/22 15:42		1	200	mg/L			A
Carbonate Alkalinity, (calc.)	3/29/22 12:50	3/29/22 15:42		1	1.24	mg/L			A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/21/22 15:39	3/21/22 15:39		1	1.99	mg/L	1.00	2	J

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-11

**Location Code:** WMWMILAP  
**Collected:** 3/16/22 13:27  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05686

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/21/22 11:55	3/21/22 11:55		1	7.08	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 10:41	3/22/22 10:41		1	0.107	mg/L	0.06	0.125	J
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/24/22 12:51	3/24/22 12:51		25	707	mg/L	15.0	50	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: AWG</b>							
Conductivity	3/16/22 13:23	3/16/22 13:23			1284.22	uS/cm			FA
pH	3/16/22 13:23	3/16/22 13:23			6.94	SU			FA
Temperature	3/16/22 13:23	3/16/22 13:23			17.60	C			FA
Turbidity	3/16/22 13:23	3/16/22 13:23			3.34	NTU			FA

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.



# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/16/22 13:27  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-11

**Laboratory ID Number:** BC05686

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05686	Aluminum, Dissolved	mg/L	-0.000828	0.010	0.100	0.0960	0.0932	0.103	0.0850 to 0.115	96.0	70.0 to 130	2.96	20.0
BC05695	Aluminum, Total	mg/L	-0.000159	0.010	0.100	0.181	0.181	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC05686	Antimony, Dissolved	mg/L	0.000289	0.00100	0.100	0.0980	0.0954	0.0944	0.0850 to 0.115	98.0	70.0 to 130	2.69	20.0
BC05695	Antimony, Total	mg/L	0.000261	0.00100	0.100	0.0974	0.0967	0.0950	0.0850 to 0.115	97.4	70.0 to 130	0.721	20.0
BC05686	Arsenic, Dissolved	mg/L	0.0000140	0.000176	0.100	0.100	0.0987	0.103	0.0850 to 0.115	99.9	70.0 to 130	1.31	20.0
BC05695	Arsenic, Total	mg/L	0.0000387	0.000176	0.100	0.102	0.101	0.104	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC05686	Barium, Dissolved	mg/L	-0.0000261	0.000200	0.100	0.119	0.119	0.102	0.0850 to 0.115	95.7	70.0 to 130	0.00	20.0
BC05695	Barium, Total	mg/L	0.0000059	0.000200	0.100	0.132	0.130	0.0997	0.0850 to 0.115	95.3	70.0 to 130	1.53	20.0
BC05686	Beryllium, Dissolved	mg/L	0.0000422	0.000880	0.100	0.0907	0.0907	0.0905	0.0850 to 0.115	90.7	70.0 to 130	0.00	20.0
BC05695	Beryllium, Total	mg/L	0.0000184	0.000880	0.100	0.0901	0.0922	0.0982	0.0850 to 0.115	90.1	70.0 to 130	2.30	20.0
BC05686	Boron, Dissolved	mg/L	-0.000298	0.0650	1.00	1.06	1.04	0.986	0.850 to 1.15	102	70.0 to 130	1.90	20.0
BC05695	Boron, Total	mg/L	-0.000196	0.0650	1.00	1.14	1.13	0.985	0.850 to 1.15	102	70.0 to 130	0.881	20.0
BC05686	Cadmium, Dissolved	mg/L	0.0000066	0.000147	0.100	0.0967	0.0965	0.104	0.0850 to 0.115	96.7	70.0 to 130	0.207	20.0
BC05695	Cadmium, Total	mg/L	0.0000062	0.000147	0.100	0.101	0.101	0.106	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC05686	Calcium, Dissolved	mg/L	-0.00416	0.152	5.00	180	180	4.83	4.25 to 5.75	80.0	70.0 to 130	0.00	20.0
BC05695	Calcium, Total	mg/L	-0.000866	0.152	5.00	7.59	7.42	4.78	4.25 to 5.75	98.6	70.0 to 130	2.27	20.0
BC05693	Chloride	mg/L	0.00143	1.00	200	322	345	10.1	9.00 to 11.0	97.5	80.0 to 120	6.90	20.0
BC05686	Chromium, Dissolved	mg/L	-0.0000315	0.000440	0.100	0.0950	0.0930	0.103	0.0850 to 0.115	95.0	70.0 to 130	2.13	20.0
BC05695	Chromium, Total	mg/L	0.0000096	0.000440	0.100	0.0982	0.0982	0.102	0.0850 to 0.115	97.9	70.0 to 130	0.00	20.0
BC05686	Cobalt, Dissolved	mg/L	0.0000005	0.000147	0.100	0.0966	0.0951	0.106	0.0850 to 0.115	96.6	70.0 to 130	1.56	20.0
BC05695	Cobalt, Total	mg/L	0.0000005	0.000147	0.100	0.102	0.101	0.105	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC05692	Fluoride	mg/L	-0.0193	0.125	2.50	2.95	2.93	2.59	2.25 to 2.75	102	80.0 to 120	0.680	20.0
BC05686	Iron, Dissolved	mg/L	-0.000434	0.0176	0.2	4.98	5.00	0.198	0.170 to 0.230	95.0	70.0 to 130	0.401	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/16/22 13:27  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-11

**Laboratory ID Number:** BC05686

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05695	Iron, Total	mg/L	-0.000366	0.0176	0.2	0.240	0.241	0.196	0.170 to 0.230	101	70.0 to 130	0.416	20.0
BC05686	Lead, Dissolved	mg/L	0.0000035	0.000147	0.100	0.0962	0.0973	0.0984	0.0850 to 0.115	96.2	70.0 to 130	1.14	20.0
BC05695	Lead, Total	mg/L	-0.0000022	0.000147	0.100	0.0940	0.0969	0.0989	0.0850 to 0.115	94.0	70.0 to 130	3.04	20.0
BC05686	Lithium, Dissolved	mg/L	-0.000245	0.0154	0.200	0.355	0.355	0.200	0.170 to 0.230	101	70.0 to 130	0.00	20.0
BC05695	Lithium, Total	mg/L	0.000005	0.0154	0.200	0.249	0.248	0.202	0.170 to 0.230	101	70.0 to 130	0.402	20.0
BC05686	Magnesium, Dissolved	mg/L	-0.00632	0.0462	5.00	92.5	91.3	5.13	4.25 to 5.75	114	70.0 to 130	1.31	20.0
BC05695	Magnesium, Total	mg/L	-0.000858	0.0462	5.00	5.92	5.87	5.09	4.25 to 5.75	103	70.0 to 130	0.848	20.0
BC05686	Manganese, Dissolved	mg/L	-0.0000044	0.0002	0.100	0.202	0.196	0.105	0.0850 to 0.115	98.0	70.0 to 130	3.02	20.0
BC05695	Manganese, Total	mg/L	0.0000292	0.0002	0.100	0.106	0.106	0.104	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BC05692	Mercury, Total by CVAA	mg/L	0.00000	0.000500	0.004	0.00401	0.00399	0.004	0.00340 to 0.00460	100	70.0 to 130	0.500	20.0
BC05686	Molybdenum, Dissolved	mg/L	0.0000088	0.0002	0.100	0.0961	0.0951	0.0983	0.0850 to 0.115	95.8	70.0 to 130	1.05	20.0
BC05695	Molybdenum, Total	mg/L	0.0000171	0.0002	0.100	0.0985	0.0975	0.100	0.0850 to 0.115	97.2	70.0 to 130	1.02	20.0
BC05686	Potassium, Dissolved	mg/L	0.00485	0.367	10.0	16.5	16.4	10.6	8.50 to 11.5	98.2	70.0 to 130	0.608	20.0
BC05695	Potassium, Total	mg/L	0.00208	0.367	10.0	13.7	13.5	10.5	8.50 to 11.5	104	70.0 to 130	1.47	20.0
BC05686	Selenium, Dissolved	mg/L	0.000179	0.00100	0.100	0.100	0.102	0.105	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC05695	Selenium, Total	mg/L	-0.0000256	0.00100	0.100	0.100	0.0992	0.105	0.0850 to 0.115	100	70.0 to 130	0.803	20.0
BC05686	Silicon, Dissolved	mg/L	-0.000753	0.0440	1.00	7.63	7.62	0.991	0.850 to 1.15	104	70.0 to 130	0.131	20.0
BC05695	Silicon, Total	mg/L	-0.000676	0.0440	1.00	6.43	6.46	1.02	0.850 to 1.15	109	70.0 to 130	0.465	20.0
BC05686	Sodium, Dissolved	mg/L	0.0216	0.0660	5.00	68.6	68.0	5.04	4.25 to 5.75	96.0	70.0 to 130	0.878	20.0
BC05695	Sodium, Total	mg/L	0.000376	0.0660	5.00	160	159	5.08	4.25 to 5.75	80.0	70.0 to 130	0.627	20.0
BC05692	Sulfate	mg/L	0.122	2.0	80.0	115	115	19.9	18.0 to 22.0	102	80.0 to 120	0.00	20.0
BC05686	Thallium, Dissolved	mg/L	0.0000022	0.000147	0.100	0.100	0.100	0.102	0.0850 to 0.115	100	70.0 to 130	0.00	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/16/22 13:27  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-11

**Laboratory ID Number:** BC05686

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BC05695	Thallium, Total	mg/L	0.0000003	0.000147	0.100	0.0988	0.0990	0.102	0.0850 to 0.115	98.8	70.0 to 130	0.202	20.0
BC05693	Total Organic Carbon	mg/L	0.350	1.00	10.0	10.4	10.1	9.79		104	80.0 to 120	2.93	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

## Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/16/22 13:27  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-11

**Laboratory ID Number:** BC05686

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05696	Alkalinity, Total as CaCO3	mg/L					112	50.8	45.0 to 55.0			2.71	10.0
BC05692	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	2.75	0.823	1.94	1.80 to 2.20	94.0	90.0 to 110	5.55	15.0
BC05695	Solids, Dissolved	mg/L	1.00	25.0			386	52.0	40.0 to 60.0			1.29	10.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond Field Blank-5

**Location Code:** WMWMILAPFB  
**Collected:** 3/16/22 15:50  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05687

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	3/28/22 15:00	3/29/22 10:33		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	3/28/22 15:00	3/29/22 10:33		1.015	Not Detected	mg/L	0.070035	0.406	U	
* Iron, Total	3/28/22 15:00	3/29/22 10:33		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	3/28/22 15:00	3/29/22 10:33		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	3/28/22 15:00	3/29/22 10:33		1.015	Not Detected	mg/L	0.021315	0.406	U	
Silica, Total (calc.)	3/28/22 15:00	3/29/22 10:33		1	Not Detected	mg/L				
Silicon, Total	3/28/22 15:00	3/29/22 10:33		1.015	Not Detected	mg/L	0.02030	0.25375	U	
* Sodium, Total	3/28/22 15:00	3/29/22 10:33		1.015	Not Detected	mg/L	0.03045	0.406	U	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	3/21/22 10:00	3/21/22 18:45		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	3/21/22 10:00	3/21/22 18:45		1.015	Not Detected	mg/L	0.006090	0.01015	U	
* Arsenic, Total	3/21/22 10:00	3/21/22 18:45		1.015	Not Detected	mg/L	0.000081	0.000203	U	
* Barium, Total	3/21/22 10:00	3/21/22 18:45		1.015	Not Detected	mg/L	0.000102	0.000203	U	
* Beryllium, Total	3/21/22 10:00	3/21/22 18:45		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	3/21/22 10:00	3/21/22 18:45		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	3/21/22 10:00	3/21/22 18:45		1.015	0.000270	mg/L	0.000203	0.001015	J	
* Cobalt, Total	3/21/22 10:00	3/21/22 18:45		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	3/21/22 10:00	3/21/22 18:45		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	3/21/22 10:00	3/21/22 18:45		1.015	Not Detected	mg/L	0.000152	0.000203	U	
* Molybdenum, Total	3/21/22 10:00	3/21/22 18:45		1.015	Not Detected	mg/L	0.000102	0.000203	U	
* Potassium, Total	3/21/22 10:00	3/21/22 18:45		1.015	Not Detected	mg/L	0.169505	0.5075	U	
* Selenium, Total	3/21/22 10:00	3/21/22 18:45		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	3/21/22 10:00	3/21/22 18:45		1.015	Not Detected	mg/L	0.000068	0.000203	U	
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>								
* Mercury, Total by CVAA	3/18/22 17:13	3/18/22 23:24		1	Not Detected	mg/L	0.0003	0.0005	U	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: ELH</b>								
* Nitrogen, Nitrate/Nitrite	3/23/22 13:44	3/23/22 13:44		1	Not Detected	mg/L as N	0.20	0.3	U	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>								
* Solids, Dissolved	3/23/22 13:04	3/24/22 14:33		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:** 3/16/22 15:50  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05687

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/21/22 15:55	3/21/22 15:55		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/21/22 11:57	3/21/22 11:57		1	Not Detected	mg/L	0.50	1	U
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 10:43	3/22/22 10:43		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/24/22 12:52	3/24/22 12:52		1	Not Detected	mg/L	0.6	2	U

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

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**Comments:**

# Batch QC Summary

**Customer Account:** WMWMILAPFB

**Sample Date:** 3/16/22 15:50

**Customer ID:**

**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond Field Blank-5

**Laboratory ID Number:** BC05687

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05695	Aluminum, Total	mg/L	-0.000159	0.010	0.100	0.181	0.181	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC05695	Antimony, Total	mg/L	0.000261	0.00100	0.100	0.0974	0.0967	0.0950	0.0850 to 0.115	97.4	70.0 to 130	0.721	20.0
BC05695	Arsenic, Total	mg/L	0.0000387	0.000176	0.100	0.102	0.101	0.104	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC05695	Barium, Total	mg/L	0.0000059	0.000200	0.100	0.132	0.130	0.0997	0.0850 to 0.115	95.3	70.0 to 130	1.53	20.0
BC05695	Beryllium, Total	mg/L	0.0000184	0.000880	0.100	0.0901	0.0922	0.0982	0.0850 to 0.115	90.1	70.0 to 130	2.30	20.0
BC05695	Boron, Total	mg/L	-0.000196	0.0650	1.00	1.14	1.13	0.985	0.850 to 1.15	102	70.0 to 130	0.881	20.0
BC05695	Cadmium, Total	mg/L	0.0000062	0.000147	0.100	0.101	0.101	0.106	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC05695	Calcium, Total	mg/L	-0.000866	0.152	5.00	7.59	7.42	4.78	4.25 to 5.75	98.6	70.0 to 130	2.27	20.0
BC05693	Chloride	mg/L	0.00143	1.00	200	322	345	10.1	9.00 to 11.0	97.5	80.0 to 120	6.90	20.0
BC05695	Chromium, Total	mg/L	0.0000096	0.000440	0.100	0.0982	0.0982	0.102	0.0850 to 0.115	97.9	70.0 to 130	0.00	20.0
BC05695	Cobalt, Total	mg/L	0.0000005	0.000147	0.100	0.102	0.101	0.105	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC05692	Fluoride	mg/L	-0.0193	0.125	2.50	2.95	2.93	2.59	2.25 to 2.75	102	80.0 to 120	0.680	20.0
BC05695	Iron, Total	mg/L	-0.000366	0.0176	0.2	0.240	0.241	0.196	0.170 to 0.230	101	70.0 to 130	0.416	20.0
BC05695	Lead, Total	mg/L	-0.0000022	0.000147	0.100	0.0940	0.0969	0.0989	0.0850 to 0.115	94.0	70.0 to 130	3.04	20.0
BC05695	Lithium, Total	mg/L	0.0000005	0.0154	0.200	0.249	0.248	0.202	0.170 to 0.230	101	70.0 to 130	0.402	20.0
BC05695	Magnesium, Total	mg/L	-0.000858	0.0462	5.00	5.92	5.87	5.09	4.25 to 5.75	103	70.0 to 130	0.848	20.0
BC05695	Manganese, Total	mg/L	0.0000292	0.0002	0.100	0.106	0.106	0.104	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BC05692	Mercury, Total by CVAA	mg/L	0.00000	0.000500	0.004	0.00401	0.00399	0.004	0.00340 to 0.00460	100	70.0 to 130	0.500	20.0
BC05695	Molybdenum, Total	mg/L	0.0000171	0.0002	0.100	0.0985	0.0975	0.100	0.0850 to 0.115	97.2	70.0 to 130	1.02	20.0
BC05695	Potassium, Total	mg/L	0.00208	0.367	10.0	13.7	13.5	10.5	8.50 to 11.5	104	70.0 to 130	1.47	20.0
BC05695	Selenium, Total	mg/L	-0.0000256	0.00100	0.100	0.100	0.0992	0.105	0.0850 to 0.115	100	70.0 to 130	0.803	20.0
BC05695	Silicon, Total	mg/L	-0.000676	0.0440	1.00	6.43	6.46	1.02	0.850 to 1.15	109	70.0 to 130	0.465	20.0
BC05695	Sodium, Total	mg/L	0.000376	0.0660	5.00	160	159	5.08	4.25 to 5.75	80.0	70.0 to 130	0.627	20.0

**Comments:**

# Batch QC Summary

**Customer Account:** WMWMILAPFB

**Sample Date:** 3/16/22 15:50

**Customer ID:**

**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond Field Blank-5

**Laboratory ID Number:** BC05687

Sample	Analysis	Units	MB	MB				Standard	Standard Limit	Rec		Prec Limit	
				Limit	Spike	MS	MSD			Rec	Limit		
BC05692	Sulfate	mg/L	0.122	2.0	80.0	115	115	19.9	18.0 to 22.0	102	80.0 to 120	0.00	20.0
BC05695	Thallium, Total	mg/L	0.0000003	0.000147	0.100	0.0988	0.0990	0.102	0.0850 to 0.115	98.8	70.0 to 130	0.202	20.0
BC05693	Total Organic Carbon	mg/L	0.350	1.00	10.0	10.4	10.1	9.79		104	80.0 to 120	2.93	20.0

**Comments:**



## Batch QC Summary

**Customer Account:** WMWMILAPFB

**Sample Date:** 3/16/22 15:50

**Customer ID:**

**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond Field Blank-5

**Laboratory ID Number:** BC05687

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05692	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	2.75	0.823	1.94	1.80 to 2.20	94.0	90.0 to 110	5.55	15.0
BC05696	Solids, Dissolved	mg/L	1.00	25.0			4400	50.0	40.0 to 60.0			4.44	10.0

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**Comments:**

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-36HR

**Location Code:** WMWMILAP  
**Collected:** 3/16/22 16:57  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05688

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	3/28/22 15:00	3/29/22 10:35		1.015	0.132	mg/L	0.030000	0.1015	
* Calcium, Total	3/28/22 15:00	3/29/22 10:35		1.015	32.6	mg/L	0.070035	0.406	
* Iron, Total	3/28/22 15:00	3/29/22 10:35		1.015	0.421	mg/L	0.008120	0.0406	
* Lithium, Total	3/28/22 15:00	3/29/22 10:35		1.015	0.294	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/28/22 15:00	3/29/22 10:35		1.015	11.9	mg/L	0.021315	0.406	
Silica, Total (calc.)	3/28/22 15:00	3/29/22 10:35		1	12.3	mg/L			
Silicon, Total	3/28/22 15:00	3/29/22 10:35		1.015	5.77	mg/L	0.02030	0.25375	
* Sodium, Total	3/28/22 15:00	3/29/22 13:10		50.75	723	mg/L	1.5225	20.3	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	3/28/22 15:00	3/29/22 12:04		1.015	0.122	mg/L	0.030000	0.1015	
* Calcium, Dissolved	3/28/22 15:00	3/29/22 12:04		1.015	30.2	mg/L	0.070035	0.406	
* Iron, Dissolved	3/28/22 15:00	3/29/22 12:04		1.015	0.364	mg/L	0.008120	0.0406	
* Lithium, Dissolved	3/28/22 15:00	3/29/22 12:04		1.015	0.272	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	3/28/22 15:00	3/29/22 12:04		1.015	11.0	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	3/28/22 15:00	3/29/22 12:04		1	12.3	mg/L			
Silicon, Dissolved	3/28/22 15:00	3/29/22 12:04		1.015	5.76	mg/L	0.02030	0.25375	
* Sodium, Dissolved	3/28/22 15:00	3/29/22 13:57		101.5	710	mg/L	3.045	40.6	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	3/21/22 10:00	3/21/22 18:49		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/21/22 10:00	3/21/22 18:49		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	3/21/22 10:00	3/21/22 18:49		1.015	0.00633	mg/L	0.000081	0.000203	
* Barium, Total	3/21/22 10:00	3/21/22 18:49		1.015	0.0536	mg/L	0.000102	0.000203	
* Beryllium, Total	3/21/22 10:00	3/21/22 18:49		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/21/22 10:00	3/21/22 18:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/21/22 10:00	3/21/22 18:49		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	3/21/22 10:00	3/21/22 18:49		1.015	0.000142	mg/L	0.000068	0.000203	J
* Lead, Total	3/21/22 10:00	3/21/22 18:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/21/22 10:00	3/21/22 18:49		1.015	0.0505	mg/L	0.000152	0.000203	
* Molybdenum, Total	3/21/22 10:00	3/21/22 18:49		1.015	0.0981	mg/L	0.000102	0.000203	
* Potassium, Total	3/21/22 10:00	3/21/22 18:49		1.015	29.2	mg/L	0.169505	0.5075	

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-36HR

**Location Code:** WMWMILAP  
**Collected:** 3/16/22 16:57  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05688

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/21/22 10:00	3/21/22 18:49		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/21/22 10:00	3/21/22 18:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	3/21/22 11:05	3/21/22 16:52		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/21/22 11:05	3/21/22 16:52		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/21/22 11:05	3/21/22 16:52		1.015	0.00537	mg/L	0.000081	0.000203	
* Barium, Dissolved	3/21/22 11:05	3/21/22 16:52		1.015	0.0502	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/21/22 11:05	3/21/22 16:52		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/21/22 11:05	3/21/22 16:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/21/22 11:05	3/21/22 16:52		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	3/21/22 11:05	3/21/22 16:52		1.015	0.000144	mg/L	0.000068	0.000203	J
* Lead, Dissolved	3/21/22 11:05	3/21/22 16:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/21/22 11:05	3/21/22 16:52		1.015	0.0492	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/21/22 11:05	3/21/22 16:52		1.015	0.0930	mg/L	0.000102	0.000203	
* Potassium, Dissolved	3/21/22 11:05	3/21/22 16:52		1.015	27.1	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/21/22 11:05	3/21/22 16:52		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/21/22 11:05	3/21/22 16:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	3/18/22 17:13	3/18/22 23:28		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: ELH</b>							
* Nitrogen, Nitrate/Nitrite	3/23/22 13:46	3/23/22 13:46		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity, Total as CaCO3	3/29/22 12:50	3/29/22 15:42		1	291	mg/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	3/23/22 13:04	3/24/22 14:33		1	2080	mg/L		178.6	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
Bicarbonate Alkalinity, (calc.)	3/29/22 12:50	3/29/22 15:42		1	288	mg/L			A
Carbonate Alkalinity, (calc.)	3/29/22 12:50	3/29/22 15:42		1	2.97	mg/L			A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/21/22 16:10	3/21/22 16:10		1	1.59	mg/L	1.00	2	J

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-36HR

**Location Code:** WMWMILAP  
**Collected:** 3/16/22 16:57  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05688

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/21/22 11:58	3/21/22 11:58		40	471	mg/L	20.00	40	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 10:44	3/22/22 10:44		1	0.400	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/24/22 12:54	3/24/22 12:54		25	746	mg/L	15.0	50	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: AWG</b>							
Conductivity	3/16/22 16:54	3/16/22 16:54			3306.39	uS/cm			FA
pH	3/16/22 16:54	3/16/22 16:54			7.51	SU			FA
Temperature	3/16/22 16:54	3/16/22 16:54			16.97	C			FA
Turbidity	3/16/22 16:54	3/16/22 16:54			1.63	NTU			FA

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/16/22 16:57  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-36HR

**Laboratory ID Number:** BC05688

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05696	Aluminum, Dissolved	mg/L	-0.000828	0.010	0.100	0.114	0.113	0.103	0.0850 to 0.115	105	70.0 to 130	0.881	20.0
BC05695	Aluminum, Total	mg/L	-0.000159	0.010	0.100	0.181	0.181	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC05696	Antimony, Dissolved	mg/L	0.000289	0.00100	0.100	0.105	0.105	0.0944	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BC05695	Antimony, Total	mg/L	0.000261	0.00100	0.100	0.0974	0.0967	0.0950	0.0850 to 0.115	97.4	70.0 to 130	0.721	20.0
BC05696	Arsenic, Dissolved	mg/L	0.0000140	0.000176	0.100	0.107	0.107	0.103	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BC05695	Arsenic, Total	mg/L	0.0000387	0.000176	0.100	0.102	0.101	0.104	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC05696	Barium, Dissolved	mg/L	-0.0000261	0.000200	0.100	3.66	3.71	0.102	0.0850 to 0.115	150	70.0 to 130	1.36	20.0
BC05695	Barium, Total	mg/L	0.0000059	0.000200	0.100	0.132	0.130	0.0997	0.0850 to 0.115	95.3	70.0 to 130	1.53	20.0
BC05696	Beryllium, Dissolved	mg/L	0.0000422	0.000880	0.100	0.101	0.101	0.0905	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC05695	Beryllium, Total	mg/L	0.0000184	0.000880	0.100	0.0901	0.0922	0.0982	0.0850 to 0.115	90.1	70.0 to 130	2.30	20.0
BC05696	Boron, Dissolved	mg/L	-0.000298	0.0650	1.00	1.19	1.16	0.986	0.850 to 1.15	104	70.0 to 130	2.55	20.0
BC05695	Boron, Total	mg/L	-0.000196	0.0650	1.00	1.14	1.13	0.985	0.850 to 1.15	102	70.0 to 130	0.881	20.0
BC05696	Cadmium, Dissolved	mg/L	0.0000066	0.000147	0.100	0.104	0.0994	0.104	0.0850 to 0.115	104	70.0 to 130	4.52	20.0
BC05695	Cadmium, Total	mg/L	0.0000062	0.000147	0.100	0.101	0.101	0.106	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC05696	Calcium, Dissolved	mg/L	-0.00416	0.152	5.00	79.8	75.4	4.83	4.25 to 5.75	236	70.0 to 130	5.67	20.0
BC05695	Calcium, Total	mg/L	-0.000866	0.152	5.00	7.59	7.42	4.78	4.25 to 5.75	98.6	70.0 to 130	2.27	20.0
BC05693	Chloride	mg/L	0.00143	1.00	200	322	345	10.1	9.00 to 11.0	97.5	80.0 to 120	6.90	20.0
BC05696	Chromium, Dissolved	mg/L	-0.0000315	0.000440	0.100	0.0989	0.0955	0.103	0.0850 to 0.115	98.9	70.0 to 130	3.50	20.0
BC05695	Chromium, Total	mg/L	0.0000096	0.000440	0.100	0.0982	0.0982	0.102	0.0850 to 0.115	97.9	70.0 to 130	0.00	20.0
BC05696	Cobalt, Dissolved	mg/L	0.0000005	0.000147	0.100	0.101	0.0980	0.106	0.0850 to 0.115	101	70.0 to 130	3.02	20.0
BC05695	Cobalt, Total	mg/L	0.0000005	0.000147	0.100	0.102	0.101	0.105	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC05692	Fluoride	mg/L	-0.0193	0.125	2.50	2.95	2.93	2.59	2.25 to 2.75	102	80.0 to 120	0.680	20.0
BC05696	Iron, Dissolved	mg/L	-0.000434	0.0176	0.2	0.283	0.278	0.198	0.170 to 0.230	95.4	70.0 to 130	1.78	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/16/22 16:57  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-36HR

**Laboratory ID Number:** BC05688

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05695	Iron, Total	mg/L	-0.000366	0.0176	0.2	0.240	0.241	0.196	0.170 to 0.230	101	70.0 to 130	0.416	20.0
BC05696	Lead, Dissolved	mg/L	0.0000035	0.000147	0.100	0.100	0.0994	0.0984	0.0850 to 0.115	100	70.0 to 130	0.602	20.0
BC05695	Lead, Total	mg/L	-0.0000022	0.000147	0.100	0.0940	0.0969	0.0989	0.0850 to 0.115	94.0	70.0 to 130	3.04	20.0
BC05696	Lithium, Dissolved	mg/L	-0.000245	0.0154	0.200	0.607	0.603	0.200	0.170 to 0.230	111	70.0 to 130	0.661	20.0
BC05695	Lithium, Total	mg/L	0.000005	0.0154	0.200	0.249	0.248	0.202	0.170 to 0.230	101	70.0 to 130	0.402	20.0
BC05696	Magnesium, Dissolved	mg/L	-0.00632	0.0462	5.00	25.8	25.6	5.13	4.25 to 5.75	98.0	70.0 to 130	0.778	20.0
BC05695	Magnesium, Total	mg/L	-0.000858	0.0462	5.00	5.92	5.87	5.09	4.25 to 5.75	103	70.0 to 130	0.848	20.0
BC05696	Manganese, Dissolved	mg/L	-0.0000044	0.0002	0.100	0.153	0.151	0.105	0.0850 to 0.115	97.7	70.0 to 130	1.32	20.0
BC05695	Manganese, Total	mg/L	0.0000292	0.0002	0.100	0.106	0.106	0.104	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BC05692	Mercury, Total by CVAA	mg/L	0.00000	0.000500	0.004	0.00401	0.00399	0.004	0.00340 to 0.00460	100	70.0 to 130	0.500	20.0
BC05696	Molybdenum, Dissolved	mg/L	0.0000088	0.0002	0.100	0.106	0.104	0.0983	0.0850 to 0.115	101	70.0 to 130	1.90	20.0
BC05695	Molybdenum, Total	mg/L	0.0000171	0.0002	0.100	0.0985	0.0975	0.100	0.0850 to 0.115	97.2	70.0 to 130	1.02	20.0
BC05696	Potassium, Dissolved	mg/L	0.00485	0.367	10.0	23.9	23.4	10.6	8.50 to 11.5	102	70.0 to 130	2.11	20.0
BC05695	Potassium, Total	mg/L	0.00208	0.367	10.0	13.7	13.5	10.5	8.50 to 11.5	104	70.0 to 130	1.47	20.0
BC05696	Selenium, Dissolved	mg/L	0.000179	0.00100	0.100	0.103	0.101	0.105	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BC05695	Selenium, Total	mg/L	-0.0000256	0.00100	0.100	0.100	0.0992	0.105	0.0850 to 0.115	100	70.0 to 130	0.803	20.0
BC05696	Silicon, Dissolved	mg/L	-0.000753	0.0440	1.00	5.47	5.39	0.991	0.850 to 1.15	96.0	70.0 to 130	1.47	20.0
BC05695	Silicon, Total	mg/L	-0.000676	0.0440	1.00	6.43	6.46	1.02	0.850 to 1.15	109	70.0 to 130	0.465	20.0
BC05696	Sodium, Dissolved	mg/L	0.0216	0.0660	5.00	1880	1740	5.04	4.25 to 5.75	4000	70.0 to 130	7.73	20.0
BC05695	Sodium, Total	mg/L	0.000376	0.0660	5.00	160	159	5.08	4.25 to 5.75	80.0	70.0 to 130	0.627	20.0
BC05692	Sulfate	mg/L	0.122	2.0	80.0	115	115	19.9	18.0 to 22.0	102	80.0 to 120	0.00	20.0
BC05696	Thallium, Dissolved	mg/L	0.0000022	0.000147	0.100	0.101	0.100	0.102	0.0850 to 0.115	101	70.0 to 130	0.995	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/16/22 16:57  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-36HR

**Laboratory ID Number:** BC05688

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05695	Thallium, Total	mg/L	0.0000003	0.000147	0.100	0.0988	0.0990	0.102	0.0850 to 0.115	98.8	70.0 to 130	0.202	20.0
BC05693	Total Organic Carbon	mg/L	0.350	1.00	10.0	10.4	10.1	9.79		104	80.0 to 120	2.93	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

## Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/16/22 16:57  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-36HR

**Laboratory ID Number:** BC05688

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05696	Alkalinity, Total as CaCO3	mg/L					112	50.8	45.0 to 55.0			2.71	10.0
BC05692	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	2.75	0.823	1.94	1.80 to 2.20	94.0	90.0 to 110	5.55	15.0
BC05696	Solids, Dissolved	mg/L	1.00	25.0			4400	50.0	40.0 to 60.0			4.44	10.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.



# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-31H

**Location Code:** WMWMILAP  
**Collected:** 3/16/22 19:27  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05689

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	3/28/22 15:00	3/29/22 10:37		1.015	0.0311	mg/L	0.030000	0.1015	J
* Calcium, Total	3/28/22 15:00	3/29/22 13:12		10.15	129	mg/L	0.70035	4.06	
* Iron, Total	3/28/22 15:00	3/29/22 10:37		1.015	0.873	mg/L	0.008120	0.0406	
* Lithium, Total	3/28/22 15:00	3/29/22 10:37		1.015	0.117	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/28/22 15:00	3/29/22 13:12		10.15	52.3	mg/L	0.21315	4.06	
Silica, Total (calc.)	3/28/22 15:00	3/29/22 10:37		1	20.0	mg/L			
Silicon, Total	3/28/22 15:00	3/29/22 10:37		1.015	9.33	mg/L	0.02030	0.25375	
* Sodium, Total	3/28/22 15:00	3/29/22 13:12		10.15	78.1	mg/L	0.3045	4.06	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	3/28/22 15:00	3/29/22 12:06		1.015	0.0319	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	3/28/22 15:00	3/29/22 13:58		10.15	130	mg/L	0.70035	4.06	
* Iron, Dissolved	3/28/22 15:00	3/29/22 12:06		1.015	0.731	mg/L	0.008120	0.0406	
* Lithium, Dissolved	3/28/22 15:00	3/29/22 12:06		1.015	0.115	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	3/28/22 15:00	3/29/22 13:58		10.15	53.0	mg/L	0.21315	4.06	
Silica, Dissolved (calc.)	3/28/22 15:00	3/29/22 12:06		1	20.1	mg/L			
Silicon, Dissolved	3/28/22 15:00	3/29/22 12:06		1.015	9.37	mg/L	0.02030	0.25375	
* Sodium, Dissolved	3/28/22 15:00	3/29/22 13:58		10.15	80.7	mg/L	0.3045	4.06	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	3/21/22 10:00	3/21/22 18:52		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/21/22 10:00	3/21/22 18:52		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	3/21/22 10:00	3/21/22 18:52		1.015	0.000395	mg/L	0.000081	0.000203	
* Barium, Total	3/21/22 10:00	3/21/22 18:52		1.015	0.0361	mg/L	0.000102	0.000203	
* Beryllium, Total	3/21/22 10:00	3/21/22 18:52		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/21/22 10:00	3/21/22 18:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/21/22 10:00	3/21/22 18:52		1.015	0.000211	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/21/22 10:00	3/21/22 18:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	3/21/22 10:00	3/21/22 18:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/21/22 10:00	3/21/22 18:52		1.015	0.0358	mg/L	0.000152	0.000203	
* Molybdenum, Total	3/21/22 10:00	3/21/22 18:52		1.015	0.000320	mg/L	0.000102	0.000203	
* Potassium, Total	3/21/22 10:00	3/21/22 18:52		1.015	3.71	mg/L	0.169505	0.5075	

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-31H

**Location Code:** WMWMILAP  
**Collected:** 3/16/22 19:27  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05689

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/21/22 10:00	3/21/22 18:52		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/21/22 10:00	3/21/22 18:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	3/21/22 11:05	3/21/22 16:56		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/21/22 11:05	3/21/22 16:56		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/21/22 11:05	3/21/22 16:56		1.015	0.000321	mg/L	0.000081	0.000203	
* Barium, Dissolved	3/21/22 11:05	3/21/22 16:56		1.015	0.0376	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/21/22 11:05	3/21/22 16:56		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/21/22 11:05	3/21/22 16:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/21/22 11:05	3/21/22 16:56		1.015	0.000219	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	3/21/22 11:05	3/21/22 16:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	3/21/22 11:05	3/21/22 16:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/21/22 11:05	3/21/22 16:56		1.015	0.0370	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/21/22 11:05	3/21/22 16:56		1.015	0.000366	mg/L	0.000102	0.000203	
* Potassium, Dissolved	3/21/22 11:05	3/21/22 16:56		1.015	3.81	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/21/22 11:05	3/21/22 16:56		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/21/22 11:05	3/21/22 16:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	3/18/22 17:13	3/18/22 23:32		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: ELH</b>							
* Nitrogen, Nitrate/Nitrite	3/23/22 13:48	3/23/22 13:48		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity, Total as CaCO3	3/29/22 12:50	3/29/22 15:42		1	290	mg/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	3/23/22 13:04	3/24/22 14:33		1	856	mg/L		50	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
Bicarbonate Alkalinity, (calc.)	3/29/22 12:50	3/29/22 15:42		1	288	mg/L			A
Carbonate Alkalinity, (calc.)	3/29/22 12:50	3/29/22 15:42		1	2.20	mg/L			A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/21/22 16:30	3/21/22 16:30		1	Not Detected	mg/L	1.00	2	U

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-31H

**Location Code:** WMWMILAP  
**Collected:** 3/16/22 19:27  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05689

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/21/22 11:59	3/21/22 11:59		1	14.1	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 10:45	3/22/22 10:45		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/24/22 12:55	3/24/22 12:55		20	414	mg/L	12.0	40	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: AWG</b>							
Conductivity	3/16/22 19:25	3/16/22 19:25			1167.96	uS/cm			FA
pH	3/16/22 19:25	3/16/22 19:25			6.94	SU			FA
Temperature	3/16/22 19:25	3/16/22 19:25			16.07	C			FA
Turbidity	3/16/22 19:25	3/16/22 19:25			2.58	NTU			FA

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

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**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/16/22 19:27  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-31H

**Laboratory ID Number:** BC05689

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BC05696	Aluminum, Dissolved	mg/L	-0.000828	0.010	0.100	0.114	0.113	0.103	0.0850 to 0.115	105	70.0 to 130	0.881	20.0
BC05695	Aluminum, Total	mg/L	-0.000159	0.010	0.100	0.181	0.181	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC05696	Antimony, Dissolved	mg/L	0.000289	0.00100	0.100	0.105	0.105	0.0944	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BC05695	Antimony, Total	mg/L	0.000261	0.00100	0.100	0.0974	0.0967	0.0950	0.0850 to 0.115	97.4	70.0 to 130	0.721	20.0
BC05696	Arsenic, Dissolved	mg/L	0.0000140	0.000176	0.100	0.107	0.107	0.103	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BC05695	Arsenic, Total	mg/L	0.0000387	0.000176	0.100	0.102	0.101	0.104	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC05696	Barium, Dissolved	mg/L	-0.0000261	0.000200	0.100	3.66	3.71	0.102	0.0850 to 0.115	150	70.0 to 130	1.36	20.0
BC05695	Barium, Total	mg/L	0.0000059	0.000200	0.100	0.132	0.130	0.0997	0.0850 to 0.115	95.3	70.0 to 130	1.53	20.0
BC05696	Beryllium, Dissolved	mg/L	0.0000422	0.000880	0.100	0.101	0.101	0.0905	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC05695	Beryllium, Total	mg/L	0.0000184	0.000880	0.100	0.0901	0.0922	0.0982	0.0850 to 0.115	90.1	70.0 to 130	2.30	20.0
BC05696	Boron, Dissolved	mg/L	-0.000298	0.0650	1.00	1.19	1.16	0.986	0.850 to 1.15	104	70.0 to 130	2.55	20.0
BC05695	Boron, Total	mg/L	-0.000196	0.0650	1.00	1.14	1.13	0.985	0.850 to 1.15	102	70.0 to 130	0.881	20.0
BC05696	Cadmium, Dissolved	mg/L	0.0000066	0.000147	0.100	0.104	0.0994	0.104	0.0850 to 0.115	104	70.0 to 130	4.52	20.0
BC05695	Cadmium, Total	mg/L	0.0000062	0.000147	0.100	0.101	0.101	0.106	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC05696	Calcium, Dissolved	mg/L	-0.00416	0.152	5.00	79.8	75.4	4.83	4.25 to 5.75	236	70.0 to 130	5.67	20.0
BC05695	Calcium, Total	mg/L	-0.000866	0.152	5.00	7.59	7.42	4.78	4.25 to 5.75	98.6	70.0 to 130	2.27	20.0
BC05693	Chloride	mg/L	0.00143	1.00	200	322	345	10.1	9.00 to 11.0	97.5	80.0 to 120	6.90	20.0
BC05696	Chromium, Dissolved	mg/L	-0.0000315	0.000440	0.100	0.0989	0.0955	0.103	0.0850 to 0.115	98.9	70.0 to 130	3.50	20.0
BC05695	Chromium, Total	mg/L	0.0000096	0.000440	0.100	0.0982	0.0982	0.102	0.0850 to 0.115	97.9	70.0 to 130	0.00	20.0
BC05696	Cobalt, Dissolved	mg/L	0.0000005	0.000147	0.100	0.101	0.0980	0.106	0.0850 to 0.115	101	70.0 to 130	3.02	20.0
BC05695	Cobalt, Total	mg/L	0.0000005	0.000147	0.100	0.102	0.101	0.105	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC05692	Fluoride	mg/L	-0.0193	0.125	2.50	2.95	2.93	2.59	2.25 to 2.75	102	80.0 to 120	0.680	20.0
BC05696	Iron, Dissolved	mg/L	-0.000434	0.0176	0.2	0.283	0.278	0.198	0.170 to 0.230	95.4	70.0 to 130	1.78	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/16/22 19:27  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-31H

**Laboratory ID Number:** BC05689

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec Limit
				Limit					Limit		Rec	Limit	
BC05695	Iron, Total	mg/L	-0.000366	0.0176	0.2	0.240	0.241	0.196	0.170 to 0.230	101	70.0 to 130	0.416	20.0
BC05696	Lead, Dissolved	mg/L	0.0000035	0.000147	0.100	0.100	0.0994	0.0984	0.0850 to 0.115	100	70.0 to 130	0.602	20.0
BC05695	Lead, Total	mg/L	-0.0000022	0.000147	0.100	0.0940	0.0969	0.0989	0.0850 to 0.115	94.0	70.0 to 130	3.04	20.0
BC05696	Lithium, Dissolved	mg/L	-0.000245	0.0154	0.200	0.607	0.603	0.200	0.170 to 0.230	111	70.0 to 130	0.661	20.0
BC05695	Lithium, Total	mg/L	0.000005	0.0154	0.200	0.249	0.248	0.202	0.170 to 0.230	101	70.0 to 130	0.402	20.0
BC05696	Magnesium, Dissolved	mg/L	-0.00632	0.0462	5.00	25.8	25.6	5.13	4.25 to 5.75	98.0	70.0 to 130	0.778	20.0
BC05695	Magnesium, Total	mg/L	-0.000858	0.0462	5.00	5.92	5.87	5.09	4.25 to 5.75	103	70.0 to 130	0.848	20.0
BC05696	Manganese, Dissolved	mg/L	-0.0000044	0.0002	0.100	0.153	0.151	0.105	0.0850 to 0.115	97.7	70.0 to 130	1.32	20.0
BC05695	Manganese, Total	mg/L	0.0000292	0.0002	0.100	0.106	0.106	0.104	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BC05692	Mercury, Total by CVAA	mg/L	0.00000	0.000500	0.004	0.00401	0.00399	0.004	0.00340 to 0.00460	100	70.0 to 130	0.500	20.0
BC05696	Molybdenum, Dissolved	mg/L	0.0000088	0.0002	0.100	0.106	0.104	0.0983	0.0850 to 0.115	101	70.0 to 130	1.90	20.0
BC05695	Molybdenum, Total	mg/L	0.0000171	0.0002	0.100	0.0985	0.0975	0.100	0.0850 to 0.115	97.2	70.0 to 130	1.02	20.0
BC05696	Potassium, Dissolved	mg/L	0.00485	0.367	10.0	23.9	23.4	10.6	8.50 to 11.5	102	70.0 to 130	2.11	20.0
BC05695	Potassium, Total	mg/L	0.00208	0.367	10.0	13.7	13.5	10.5	8.50 to 11.5	104	70.0 to 130	1.47	20.0
BC05696	Selenium, Dissolved	mg/L	0.000179	0.00100	0.100	0.103	0.101	0.105	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BC05695	Selenium, Total	mg/L	-0.0000256	0.00100	0.100	0.100	0.0992	0.105	0.0850 to 0.115	100	70.0 to 130	0.803	20.0
BC05696	Silicon, Dissolved	mg/L	-0.000753	0.0440	1.00	5.47	5.39	0.991	0.850 to 1.15	96.0	70.0 to 130	1.47	20.0
BC05695	Silicon, Total	mg/L	-0.000676	0.0440	1.00	6.43	6.46	1.02	0.850 to 1.15	109	70.0 to 130	0.465	20.0
BC05696	Sodium, Dissolved	mg/L	0.0216	0.0660	5.00	1880	1740	5.04	4.25 to 5.75	4000	70.0 to 130	7.73	20.0
BC05695	Sodium, Total	mg/L	0.000376	0.0660	5.00	160	159	5.08	4.25 to 5.75	80.0	70.0 to 130	0.627	20.0
BC05692	Sulfate	mg/L	0.122	2.0	80.0	115	115	19.9	18.0 to 22.0	102	80.0 to 120	0.00	20.0
BC05696	Thallium, Dissolved	mg/L	0.0000022	0.000147	0.100	0.101	0.100	0.102	0.0850 to 0.115	101	70.0 to 130	0.995	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/16/22 19:27  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-31H

**Laboratory ID Number:** BC05689

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BC05695	Thallium, Total	mg/L	0.0000003	0.000147	0.100	0.0988	0.0990	0.102	0.0850 to 0.115	98.8	70.0 to 130	0.202	20.0
BC05693	Total Organic Carbon	mg/L	0.350	1.00	10.0	10.4	10.1	9.79		104	80.0 to 120	2.93	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

## Batch QC Summary

**Customer Account:** WMWMILAP

**Sample Date:** 3/16/22 19:27

**Customer ID:**

**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-31H

**Laboratory ID Number:** BC05689

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05696	Alkalinity, Total as CaCO3	mg/L					112	50.8	45.0 to 55.0			2.71	10.0
BC05692	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	2.75	0.823	1.94	1.80 to 2.20	94.0	90.0 to 110	5.55	15.0
BC05696	Solids, Dissolved	mg/L	1.00	25.0			4400	50.0	40.0 to 60.0			4.44	10.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-12

**Location Code:** WMWMILAP  
**Collected:** 3/17/22 09:40  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05690

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	3/28/22 15:00	3/29/22 10:38		1.015	7.07	mg/L	0.030000	0.1015	
* Calcium, Total	3/28/22 15:00	3/29/22 13:13		50.75	102	mg/L	3.50175	20.3	
* Iron, Total	3/28/22 15:00	3/29/22 10:38		1.015	3.10	mg/L	0.008120	0.0406	
* Lithium, Total	3/28/22 15:00	3/29/22 10:38		1.015	0.104	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/28/22 15:00	3/29/22 13:13		50.75	57.9	mg/L	1.06575	20.3	
Silica, Total (calc.)	3/28/22 15:00	3/29/22 10:38		1	11.9	mg/L			
Silicon, Total	3/28/22 15:00	3/29/22 10:38		1.015	5.54	mg/L	0.02030	0.25375	
* Sodium, Total	3/28/22 15:00	3/29/22 13:13		50.75	783	mg/L	1.5225	20.3	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	3/28/22 15:00	3/29/22 12:08		1.015	7.17	mg/L	0.030000	0.1015	
* Calcium, Dissolved	3/28/22 15:00	3/29/22 14:00		50.75	94.6	mg/L	3.50175	20.3	
* Iron, Dissolved	3/28/22 15:00	3/29/22 12:08		1.015	3.21	mg/L	0.008120	0.0406	
* Lithium, Dissolved	3/28/22 15:00	3/29/22 12:08		1.015	0.0960	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	3/28/22 15:00	3/29/22 14:00		50.75	54.4	mg/L	1.06575	20.3	
Silica, Dissolved (calc.)	3/28/22 15:00	3/29/22 12:08		1	11.3	mg/L			
Silicon, Dissolved	3/28/22 15:00	3/29/22 12:08		1.015	5.26	mg/L	0.02030	0.25375	
* Sodium, Dissolved	3/28/22 15:00	3/29/22 14:00		50.75	756	mg/L	1.5225	20.3	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	3/21/22 10:00	3/21/22 18:56		1.015	0.000583	mg/L	0.000508	0.001015	J
* Aluminum, Total	3/21/22 10:00	3/21/22 18:56		1.015	0.0385	mg/L	0.006090	0.01015	
* Arsenic, Total	3/21/22 10:00	3/21/22 18:56		1.015	0.00780	mg/L	0.000081	0.000203	
* Barium, Total	3/21/22 10:00	3/21/22 18:56		1.015	0.0149	mg/L	0.000102	0.000203	
* Beryllium, Total	3/21/22 10:00	3/21/22 18:56		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/21/22 10:00	3/21/22 18:56		1.015	0.000160	mg/L	0.000068	0.000203	J
* Chromium, Total	3/21/22 10:00	3/21/22 18:56		1.015	0.000480	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/21/22 10:00	3/21/22 18:56		1.015	0.00116	mg/L	0.000068	0.000203	
* Lead, Total	3/21/22 10:00	3/21/22 18:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/21/22 10:00	3/21/22 18:56		1.015	0.909	mg/L	0.000152	0.000203	
* Molybdenum, Total	3/21/22 10:00	3/21/22 18:56		1.015	1.17	mg/L	0.000102	0.000203	
* Potassium, Total	3/21/22 10:00	3/21/22 18:56		1.015	14.1	mg/L	0.169505	0.5075	

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.



# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-12

**Location Code:** WMWMILAP  
**Collected:** 3/17/22 09:40  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05690

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/21/22 10:00	3/21/22 18:56		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/21/22 10:00	3/21/22 18:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	3/21/22 11:05	3/21/22 17:00		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/21/22 11:05	3/21/22 17:00		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/21/22 11:05	3/21/22 17:00		1.015	0.00835	mg/L	0.000081	0.000203	
* Barium, Dissolved	3/21/22 11:05	3/21/22 17:00		1.015	0.0133	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/21/22 11:05	3/21/22 17:00		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/21/22 11:05	3/21/22 17:00		1.015	0.000133	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	3/21/22 11:05	3/21/22 17:00		1.015	0.000245	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	3/21/22 11:05	3/21/22 17:00		1.015	0.00113	mg/L	0.000068	0.000203	
* Lead, Dissolved	3/21/22 11:05	3/21/22 17:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/21/22 11:05	3/21/22 17:00		1.015	0.933	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/21/22 11:05	3/21/22 17:00		1.015	1.22	mg/L	0.000102	0.000203	
* Potassium, Dissolved	3/21/22 11:05	3/21/22 17:00		1.015	14.4	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/21/22 11:05	3/21/22 17:00		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/21/22 11:05	3/21/22 17:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	3/18/22 17:13	3/18/22 23:36		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: ELH</b>							
* Nitrogen, Nitrate/Nitrite	3/23/22 13:50	3/23/22 13:50		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity, Total as CaCO3	3/29/22 12:50	3/29/22 15:42		1	259	mg/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	3/23/22 13:04	3/24/22 14:33		1	2580	mg/L		178.6	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
Bicarbonate Alkalinity, (calc.)	3/29/22 12:50	3/29/22 15:42		1	257	mg/L			A
Carbonate Alkalinity, (calc.)	3/29/22 12:50	3/29/22 15:42		1	1.64	mg/L			A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/21/22 16:45	3/21/22 16:45		1	1.91	mg/L	1.00	2	J

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-12

**Location Code:** WMWMILAP  
**Collected:** 3/17/22 09:40  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05690

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/21/22 12:00	3/21/22 12:00		1	8.05	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 10:46	3/22/22 10:46		1	1.21	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/24/22 13:12	3/24/22 13:12		50	1730	mg/L	30.0	100	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: AWG</b>							
Conductivity	3/17/22 09:35	3/17/22 09:35			3124.58	uS/cm			FA
pH	3/17/22 09:35	3/17/22 09:35			6.65	SU			FA
Temperature	3/17/22 09:35	3/17/22 09:35			19.38	C			FA
Turbidity	3/17/22 09:35	3/17/22 09:35			1.54	NTU			FA

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/17/22 09:40  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-12

**Laboratory ID Number:** BC05690

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC05696	Aluminum, Dissolved	mg/L	-0.000828	0.010	0.100	0.114	0.113	0.103	0.0850 to 0.115	105	70.0 to 130	0.881	20.0
BC05695	Aluminum, Total	mg/L	-0.000159	0.010	0.100	0.181	0.181	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC05696	Antimony, Dissolved	mg/L	0.000289	0.00100	0.100	0.105	0.105	0.0944	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BC05695	Antimony, Total	mg/L	0.000261	0.00100	0.100	0.0974	0.0967	0.0950	0.0850 to 0.115	97.4	70.0 to 130	0.721	20.0
BC05696	Arsenic, Dissolved	mg/L	0.0000140	0.000176	0.100	0.107	0.107	0.103	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BC05695	Arsenic, Total	mg/L	0.0000387	0.000176	0.100	0.102	0.101	0.104	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC05696	Barium, Dissolved	mg/L	-0.0000261	0.000200	0.100	3.66	3.71	0.102	0.0850 to 0.115	150	70.0 to 130	1.36	20.0
BC05695	Barium, Total	mg/L	0.0000059	0.000200	0.100	0.132	0.130	0.0997	0.0850 to 0.115	95.3	70.0 to 130	1.53	20.0
BC05696	Beryllium, Dissolved	mg/L	0.0000422	0.000880	0.100	0.101	0.101	0.0905	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC05695	Beryllium, Total	mg/L	0.0000184	0.000880	0.100	0.0901	0.0922	0.0982	0.0850 to 0.115	90.1	70.0 to 130	2.30	20.0
BC05696	Boron, Dissolved	mg/L	-0.000298	0.0650	1.00	1.19	1.16	0.986	0.850 to 1.15	104	70.0 to 130	2.55	20.0
BC05695	Boron, Total	mg/L	-0.000196	0.0650	1.00	1.14	1.13	0.985	0.850 to 1.15	102	70.0 to 130	0.881	20.0
BC05696	Cadmium, Dissolved	mg/L	0.0000066	0.000147	0.100	0.104	0.0994	0.104	0.0850 to 0.115	104	70.0 to 130	4.52	20.0
BC05695	Cadmium, Total	mg/L	0.0000062	0.000147	0.100	0.101	0.101	0.106	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC05696	Calcium, Dissolved	mg/L	-0.00416	0.152	5.00	79.8	75.4	4.83	4.25 to 5.75	236	70.0 to 130	5.67	20.0
BC05695	Calcium, Total	mg/L	-0.000866	0.152	5.00	7.59	7.42	4.78	4.25 to 5.75	98.6	70.0 to 130	2.27	20.0
BC05693	Chloride	mg/L	0.00143	1.00	200	322	345	10.1	9.00 to 11.0	97.5	80.0 to 120	6.90	20.0
BC05696	Chromium, Dissolved	mg/L	-0.0000315	0.000440	0.100	0.0989	0.0955	0.103	0.0850 to 0.115	98.9	70.0 to 130	3.50	20.0
BC05695	Chromium, Total	mg/L	0.0000096	0.000440	0.100	0.0982	0.0982	0.102	0.0850 to 0.115	97.9	70.0 to 130	0.00	20.0
BC05696	Cobalt, Dissolved	mg/L	0.0000005	0.000147	0.100	0.101	0.0980	0.106	0.0850 to 0.115	101	70.0 to 130	3.02	20.0
BC05695	Cobalt, Total	mg/L	0.0000005	0.000147	0.100	0.102	0.101	0.105	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC05692	Fluoride	mg/L	-0.0193	0.125	2.50	2.95	2.93	2.59	2.25 to 2.75	102	80.0 to 120	0.680	20.0
BC05696	Iron, Dissolved	mg/L	-0.000434	0.0176	0.2	0.283	0.278	0.198	0.170 to 0.230	95.4	70.0 to 130	1.78	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/17/22 09:40  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-12

**Laboratory ID Number:** BC05690

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05695	Iron, Total	mg/L	-0.000366	0.0176	0.2	0.240	0.241	0.196	0.170 to 0.230	101	70.0 to 130	0.416	20.0
BC05696	Lead, Dissolved	mg/L	0.0000035	0.000147	0.100	0.100	0.0994	0.0984	0.0850 to 0.115	100	70.0 to 130	0.602	20.0
BC05695	Lead, Total	mg/L	-0.0000022	0.000147	0.100	0.0940	0.0969	0.0989	0.0850 to 0.115	94.0	70.0 to 130	3.04	20.0
BC05696	Lithium, Dissolved	mg/L	-0.000245	0.0154	0.200	0.607	0.603	0.200	0.170 to 0.230	111	70.0 to 130	0.661	20.0
BC05695	Lithium, Total	mg/L	0.000005	0.0154	0.200	0.249	0.248	0.202	0.170 to 0.230	101	70.0 to 130	0.402	20.0
BC05696	Magnesium, Dissolved	mg/L	-0.00632	0.0462	5.00	25.8	25.6	5.13	4.25 to 5.75	98.0	70.0 to 130	0.778	20.0
BC05695	Magnesium, Total	mg/L	-0.000858	0.0462	5.00	5.92	5.87	5.09	4.25 to 5.75	103	70.0 to 130	0.848	20.0
BC05696	Manganese, Dissolved	mg/L	-0.0000044	0.0002	0.100	0.153	0.151	0.105	0.0850 to 0.115	97.7	70.0 to 130	1.32	20.0
BC05695	Manganese, Total	mg/L	0.0000292	0.0002	0.100	0.106	0.106	0.104	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BC05692	Mercury, Total by CVAA	mg/L	0.00000	0.000500	0.004	0.00401	0.00399	0.004	0.00340 to 0.00460	100	70.0 to 130	0.500	20.0
BC05696	Molybdenum, Dissolved	mg/L	0.0000088	0.0002	0.100	0.106	0.104	0.0983	0.0850 to 0.115	101	70.0 to 130	1.90	20.0
BC05695	Molybdenum, Total	mg/L	0.0000171	0.0002	0.100	0.0985	0.0975	0.100	0.0850 to 0.115	97.2	70.0 to 130	1.02	20.0
BC05696	Potassium, Dissolved	mg/L	0.00485	0.367	10.0	23.9	23.4	10.6	8.50 to 11.5	102	70.0 to 130	2.11	20.0
BC05695	Potassium, Total	mg/L	0.00208	0.367	10.0	13.7	13.5	10.5	8.50 to 11.5	104	70.0 to 130	1.47	20.0
BC05696	Selenium, Dissolved	mg/L	0.000179	0.00100	0.100	0.103	0.101	0.105	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BC05695	Selenium, Total	mg/L	-0.0000256	0.00100	0.100	0.100	0.0992	0.105	0.0850 to 0.115	100	70.0 to 130	0.803	20.0
BC05696	Silicon, Dissolved	mg/L	-0.000753	0.0440	1.00	5.47	5.39	0.991	0.850 to 1.15	96.0	70.0 to 130	1.47	20.0
BC05695	Silicon, Total	mg/L	-0.000676	0.0440	1.00	6.43	6.46	1.02	0.850 to 1.15	109	70.0 to 130	0.465	20.0
BC05696	Sodium, Dissolved	mg/L	0.0216	0.0660	5.00	1880	1740	5.04	4.25 to 5.75	4000	70.0 to 130	7.73	20.0
BC05695	Sodium, Total	mg/L	0.000376	0.0660	5.00	160	159	5.08	4.25 to 5.75	80.0	70.0 to 130	0.627	20.0
BC05692	Sulfate	mg/L	0.122	2.0	80.0	115	115	19.9	18.0 to 22.0	102	80.0 to 120	0.00	20.0
BC05696	Thallium, Dissolved	mg/L	0.0000022	0.000147	0.100	0.101	0.100	0.102	0.0850 to 0.115	101	70.0 to 130	0.995	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/17/22 09:40  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-12

**Laboratory ID Number:** BC05690

Sample	Analysis	Units	MB	MB				Standard	Standard Limit	Rec		Prec Limit	
				Limit	Spike	MS	MSD			Rec	Limit		
BC05695	Thallium, Total	mg/L	0.0000003	0.000147	0.100	0.0988	0.0990	0.102	0.0850 to 0.115	98.8	70.0 to 130	0.202	20.0
BC05693	Total Organic Carbon	mg/L	0.350	1.00	10.0	10.4	10.1	9.79		104	80.0 to 120	2.93	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

## Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/17/22 09:40  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-12

**Laboratory ID Number:** BC05690

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05696	Alkalinity, Total as CaCO3	mg/L					112	50.8	45.0 to 55.0			2.71	10.0
BC05692	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	2.75	0.823	1.94	1.80 to 2.20	94.0	90.0 to 110	5.55	15.0
BC05696	Solids, Dissolved	mg/L	1.00	25.0			4400	50.0	40.0 to 60.0			4.44	10.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond Equipment Blank-1

**Location Code:** WMWMILAPEB  
**Collected:** 3/17/22 10:40  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05691

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: RDA</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	3/28/22 15:00	3/29/22 10:40		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	3/28/22 15:00	3/29/22 10:40		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	3/28/22 15:00	3/29/22 10:40		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	3/28/22 15:00	3/29/22 10:40		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	3/28/22 15:00	3/29/22 10:40		1.015	Not Detected	mg/L	0.021315	0.406	U
Silica, Total (calc.)	3/28/22 15:00	3/29/22 10:40		1	Not Detected	mg/L			
Silicon, Total	3/28/22 15:00	3/29/22 10:40		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	3/28/22 15:00	3/29/22 10:40		1.015	0.128	mg/L	0.03045	0.406	J
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	3/21/22 10:00	3/21/22 19:00		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/21/22 10:00	3/21/22 19:00		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	3/21/22 10:00	3/21/22 19:00		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	3/21/22 10:00	3/21/22 19:00		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Beryllium, Total	3/21/22 10:00	3/21/22 19:00		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/21/22 10:00	3/21/22 19:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/21/22 10:00	3/21/22 19:00		1.015	0.000244	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/21/22 10:00	3/21/22 19:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	3/21/22 10:00	3/21/22 19:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/21/22 10:00	3/21/22 19:00		1.015	Not Detected	mg/L	0.000152	0.000203	U
* Molybdenum, Total	3/21/22 10:00	3/21/22 19:00		1.015	0.000192	mg/L	0.000102	0.000203	J
* Potassium, Total	3/21/22 10:00	3/21/22 19:00		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	3/21/22 10:00	3/21/22 19:00		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/21/22 10:00	3/21/22 19:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>			<b>Analyst: CRB</b>						
* Mercury, Total by CVAA	3/18/22 17:13	3/18/22 23:40		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>			<b>Analyst: ELH</b>						
* Nitrogen, Nitrate/Nitrite	3/23/22 13:51	3/23/22 13:51		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2540C</b>			<b>Analyst: CNJ</b>						
* Solids, Dissolved	3/23/22 13:04	3/24/22 14:33		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:** 3/17/22 10:40

**Customer ID:**

**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05691

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<i>Analytical Method: SM 5310 B</i>		<i>Analyst: ELH</i>							
* Total Organic Carbon	3/21/22 17:02	3/21/22 17:02		1	Not Detected	mg/L	1.00	2	U
<i>Analytical Method: SM4500CI E</i>		<i>Analyst: JCC</i>							
* Chloride	3/21/22 12:01	3/21/22 12:01		1	Not Detected	mg/L	0.50	1	U
<i>Analytical Method: SM4500F G 2017</i>		<i>Analyst: JCC</i>							
* Fluoride	3/22/22 10:47	3/22/22 10:47		1	Not Detected	mg/L	0.06	0.125	U
<i>Analytical Method: SM4500SO4 E 2011</i>		<i>Analyst: JCC</i>							
* Sulfate	3/24/22 12:57	3/24/22 12:57		1	Not Detected	mg/L	0.6	2	U

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

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**Comments:**



# Batch QC Summary

**Customer Account:** WMWMILAPEB  
**Sample Date:** 3/17/22 10:40  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond Equipment Blank-1

**Laboratory ID Number:** BC05691

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05695	Aluminum, Total	mg/L	-0.000159	0.010	0.100	0.181	0.181	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC05695	Antimony, Total	mg/L	0.000261	0.00100	0.100	0.0974	0.0967	0.0950	0.0850 to 0.115	97.4	70.0 to 130	0.721	20.0
BC05695	Arsenic, Total	mg/L	0.0000387	0.000176	0.100	0.102	0.101	0.104	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC05695	Barium, Total	mg/L	0.0000059	0.000200	0.100	0.132	0.130	0.0997	0.0850 to 0.115	95.3	70.0 to 130	1.53	20.0
BC05695	Beryllium, Total	mg/L	0.0000184	0.000880	0.100	0.0901	0.0922	0.0982	0.0850 to 0.115	90.1	70.0 to 130	2.30	20.0
BC05695	Boron, Total	mg/L	-0.000196	0.0650	1.00	1.14	1.13	0.985	0.850 to 1.15	102	70.0 to 130	0.881	20.0
BC05695	Cadmium, Total	mg/L	0.0000062	0.000147	0.100	0.101	0.101	0.106	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC05695	Calcium, Total	mg/L	-0.000866	0.152	5.00	7.59	7.42	4.78	4.25 to 5.75	98.6	70.0 to 130	2.27	20.0
BC05693	Chloride	mg/L	0.00143	1.00	200	322	345	10.1	9.00 to 11.0	97.5	80.0 to 120	6.90	20.0
BC05695	Chromium, Total	mg/L	0.0000096	0.000440	0.100	0.0982	0.0982	0.102	0.0850 to 0.115	97.9	70.0 to 130	0.00	20.0
BC05695	Cobalt, Total	mg/L	0.0000005	0.000147	0.100	0.102	0.101	0.105	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC05692	Fluoride	mg/L	-0.0193	0.125	2.50	2.95	2.93	2.59	2.25 to 2.75	102	80.0 to 120	0.680	20.0
BC05695	Iron, Total	mg/L	-0.000366	0.0176	0.2	0.240	0.241	0.196	0.170 to 0.230	101	70.0 to 130	0.416	20.0
BC05695	Lead, Total	mg/L	-0.0000022	0.000147	0.100	0.0940	0.0969	0.0989	0.0850 to 0.115	94.0	70.0 to 130	3.04	20.0
BC05695	Lithium, Total	mg/L	0.0000005	0.0154	0.200	0.249	0.248	0.202	0.170 to 0.230	101	70.0 to 130	0.402	20.0
BC05695	Magnesium, Total	mg/L	-0.000858	0.0462	5.00	5.92	5.87	5.09	4.25 to 5.75	103	70.0 to 130	0.848	20.0
BC05695	Manganese, Total	mg/L	0.0000292	0.0002	0.100	0.106	0.106	0.104	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BC05692	Mercury, Total by CVAA	mg/L	0.00000	0.000500	0.004	0.00401	0.00399	0.004	0.00340 to 0.00460	100	70.0 to 130	0.500	20.0
BC05695	Molybdenum, Total	mg/L	0.0000171	0.0002	0.100	0.0985	0.0975	0.100	0.0850 to 0.115	97.2	70.0 to 130	1.02	20.0
BC05695	Potassium, Total	mg/L	0.00208	0.367	10.0	13.7	13.5	10.5	8.50 to 11.5	104	70.0 to 130	1.47	20.0
BC05695	Selenium, Total	mg/L	-0.0000256	0.00100	0.100	0.100	0.0992	0.105	0.0850 to 0.115	100	70.0 to 130	0.803	20.0
BC05695	Silicon, Total	mg/L	-0.000676	0.0440	1.00	6.43	6.46	1.02	0.850 to 1.15	109	70.0 to 130	0.465	20.0
BC05695	Sodium, Total	mg/L	0.000376	0.0660	5.00	160	159	5.08	4.25 to 5.75	80.0	70.0 to 130	0.627	20.0

**Comments:**

# Batch QC Summary

**Customer Account:** WMWMILAPEB  
**Sample Date:** 3/17/22 10:40  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond Equipment Blank-1

**Laboratory ID Number:** BC05691

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05692	Sulfate	mg/L	0.122	2.0	80.0	115	115	19.9	18.0 to 22.0	102	80.0 to 120	0.00	20.0
BC05695	Thallium, Total	mg/L	0.0000003	0.000147	0.100	0.0988	0.0990	0.102	0.0850 to 0.115	98.8	70.0 to 130	0.202	20.0
BC05693	Total Organic Carbon	mg/L	0.350	1.00	10.0	10.4	10.1	9.79		104	80.0 to 120	2.93	20.0

**Comments:**

## Batch QC Summary

**Customer Account:** WMWMILAPEB

**Sample Date:** 3/17/22 10:40

**Customer ID:**

**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond Equipment Blank-1

**Laboratory ID Number:** BC05691

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05692	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	2.75	0.823	1.94	1.80 to 2.20	94.0	90.0 to 110	5.55	15.0
BC05696	Solids, Dissolved	mg/L	1.00	25.0			4400	50.0	40.0 to 60.0			4.44	10.0

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**Comments:**

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-23A

**Location Code:** WMWMILAP  
**Collected:** 3/16/22 11:00  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05692

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	3/28/22 15:00	3/29/22 10:42		1.015	0.668	mg/L	0.030000	0.1015	
* Calcium, Total	3/28/22 15:00	3/29/22 13:15		50.75	128	mg/L	3.50175	20.3	
* Iron, Total	3/28/22 15:00	3/29/22 10:42		1.015	0.573	mg/L	0.008120	0.0406	
* Lithium, Total	3/28/22 15:00	3/29/22 11:10		1.015	0.815	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/28/22 15:00	3/29/22 13:15		50.75	45.6	mg/L	1.06575	20.3	
Silica, Total (calc.)	3/28/22 15:00	3/29/22 10:42		1	15.9	mg/L			
Silicon, Total	3/28/22 15:00	3/29/22 10:42		1.015	7.44	mg/L	0.02030	0.25375	
* Sodium, Total	3/28/22 15:00	3/29/22 13:15		50.75	1640	mg/L	1.5225	20.3	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	3/28/22 15:00	3/29/22 12:10		1.015	0.687	mg/L	0.030000	0.1015	
* Calcium, Dissolved	3/28/22 15:00	3/29/22 14:02		50.75	131	mg/L	3.50175	20.3	
* Iron, Dissolved	3/28/22 15:00	3/29/22 12:10		1.015	0.478	mg/L	0.008120	0.0406	
* Lithium, Dissolved	3/28/22 15:00	3/29/22 12:10		1.015	0.823	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	3/28/22 15:00	3/29/22 14:02		50.75	47.0	mg/L	1.06575	20.3	
Silica, Dissolved (calc.)	3/28/22 15:00	3/29/22 12:10		1	16.3	mg/L			
Silicon, Dissolved	3/28/22 15:00	3/29/22 12:10		1.015	7.63	mg/L	0.02030	0.25375	
* Sodium, Dissolved	3/28/22 15:00	3/29/22 14:02		50.75	1680	mg/L	1.5225	20.3	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	3/21/22 10:00	3/21/22 19:03		1.015	0.00109	mg/L	0.000508	0.001015	
* Aluminum, Total	3/21/22 10:00	3/21/22 19:03		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	3/21/22 10:00	3/21/22 19:03		1.015	0.00449	mg/L	0.000081	0.000203	
* Barium, Total	3/21/22 10:00	3/22/22 13:02		10.15	6.68	mg/L	0.001015	0.00203	
* Beryllium, Total	3/21/22 10:00	3/21/22 19:03		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/21/22 10:00	3/21/22 19:03		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/21/22 10:00	3/21/22 19:03		1.015	0.000305	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/21/22 10:00	3/21/22 19:03		1.015	0.00294	mg/L	0.000068	0.000203	
* Lead, Total	3/21/22 10:00	3/21/22 19:03		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/21/22 10:00	3/21/22 19:03		1.015	0.0676	mg/L	0.000152	0.000203	
* Molybdenum, Total	3/21/22 10:00	3/21/22 19:03		1.015	0.00535	mg/L	0.000102	0.000203	
* Potassium, Total	3/21/22 10:00	3/21/22 19:03		1.015	8.36	mg/L	0.169505	0.5075	

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-23A

**Location Code:** WMWMILAP  
**Collected:** 3/16/22 11:00  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05692

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/21/22 10:00	3/21/22 19:03		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/21/22 10:00	3/21/22 19:03		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	3/21/22 11:05	3/21/22 17:03		1.015	0.000603	mg/L	0.000508	0.001015	J
* Aluminum, Dissolved	3/21/22 11:05	3/21/22 17:03		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/21/22 11:05	3/21/22 17:03		1.015	0.00374	mg/L	0.000081	0.000203	
* Barium, Dissolved	3/21/22 11:05	3/22/22 12:36		10.15	7.21	mg/L	0.001015	0.00203	
* Beryllium, Dissolved	3/21/22 11:05	3/21/22 17:03		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/21/22 11:05	3/21/22 17:03		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/21/22 11:05	3/21/22 17:03		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	3/21/22 11:05	3/21/22 17:03		1.015	0.00235	mg/L	0.000068	0.000203	
* Lead, Dissolved	3/21/22 11:05	3/21/22 17:03		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/21/22 11:05	3/21/22 17:03		1.015	0.0626	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/21/22 11:05	3/21/22 17:03		1.015	0.00463	mg/L	0.000102	0.000203	
* Potassium, Dissolved	3/21/22 11:05	3/21/22 17:03		1.015	7.96	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/21/22 11:05	3/21/22 17:03		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/21/22 11:05	3/21/22 17:03		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	3/18/22 17:13	3/18/22 23:44		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: ELH</b>							
* Nitrogen, Nitrate/Nitrite	3/23/22 13:53	3/23/22 13:53		1	0.870	mg/L as N	0.20	0.3	
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity, Total as CaCO3	3/29/22 12:50	3/29/22 15:42		1	246	mg/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	3/18/22 10:38	3/21/22 13:52		1	4520	mg/L		416.7	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
Bicarbonate Alkalinity, (calc.)	3/29/22 12:50	3/29/22 15:42		1	244	mg/L			A
Carbonate Alkalinity, (calc.)	3/29/22 12:50	3/29/22 15:42		1	1.87	mg/L			A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/21/22 17:16	3/21/22 17:16		1	Not Detected	mg/L	1.00	2	U

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-23A

**Location Code:** WMWMILAP  
**Collected:** 3/16/22 11:00  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05692

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/21/22 12:03	3/21/22 12:03		200	2520	mg/L	100.00	200	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 10:49	3/22/22 10:49		1	0.394	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/24/22 12:58	3/24/22 12:58		3	33.5	mg/L	1.8	6	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	3/16/22 10:56	3/16/22 10:56			7695.25	uS/cm			FA
pH	3/16/22 10:56	3/16/22 10:56			7.48	SU			FA
Temperature	3/16/22 10:56	3/16/22 10:56			20.51	C			FA
Turbidity	3/16/22 10:56	3/16/22 10:56			2.19	NTU			FA

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

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**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/16/22 11:00  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-23A

**Laboratory ID Number:** BC05692

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BC05696	Aluminum, Dissolved	mg/L	-0.000828	0.010	0.100	0.114	0.113	0.103	0.0850 to 0.115	105	70.0 to 130	0.881	20.0
BC05695	Aluminum, Total	mg/L	-0.000159	0.010	0.100	0.181	0.181	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC05696	Antimony, Dissolved	mg/L	0.000289	0.00100	0.100	0.105	0.105	0.0944	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BC05695	Antimony, Total	mg/L	0.000261	0.00100	0.100	0.0974	0.0967	0.0950	0.0850 to 0.115	97.4	70.0 to 130	0.721	20.0
BC05696	Arsenic, Dissolved	mg/L	0.0000140	0.000176	0.100	0.107	0.107	0.103	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BC05695	Arsenic, Total	mg/L	0.0000387	0.000176	0.100	0.102	0.101	0.104	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC05696	Barium, Dissolved	mg/L	-0.0000261	0.000200	0.100	3.66	3.71	0.102	0.0850 to 0.115	150	70.0 to 130	1.36	20.0
BC05695	Barium, Total	mg/L	0.0000059	0.000200	0.100	0.132	0.130	0.0997	0.0850 to 0.115	95.3	70.0 to 130	1.53	20.0
BC05696	Beryllium, Dissolved	mg/L	0.0000422	0.000880	0.100	0.101	0.101	0.0905	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC05695	Beryllium, Total	mg/L	0.0000184	0.000880	0.100	0.0901	0.0922	0.0982	0.0850 to 0.115	90.1	70.0 to 130	2.30	20.0
BC05696	Boron, Dissolved	mg/L	-0.000298	0.0650	1.00	1.19	1.16	0.986	0.850 to 1.15	104	70.0 to 130	2.55	20.0
BC05695	Boron, Total	mg/L	-0.000196	0.0650	1.00	1.14	1.13	0.985	0.850 to 1.15	102	70.0 to 130	0.881	20.0
BC05696	Cadmium, Dissolved	mg/L	0.0000066	0.000147	0.100	0.104	0.0994	0.104	0.0850 to 0.115	104	70.0 to 130	4.52	20.0
BC05695	Cadmium, Total	mg/L	0.0000062	0.000147	0.100	0.101	0.101	0.106	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC05696	Calcium, Dissolved	mg/L	-0.00416	0.152	5.00	79.8	75.4	4.83	4.25 to 5.75	236	70.0 to 130	5.67	20.0
BC05695	Calcium, Total	mg/L	-0.000866	0.152	5.00	7.59	7.42	4.78	4.25 to 5.75	98.6	70.0 to 130	2.27	20.0
BC05693	Chloride	mg/L	0.00143	1.00	200	322	345	10.1	9.00 to 11.0	97.5	80.0 to 120	6.90	20.0
BC05696	Chromium, Dissolved	mg/L	-0.0000315	0.000440	0.100	0.0989	0.0955	0.103	0.0850 to 0.115	98.9	70.0 to 130	3.50	20.0
BC05695	Chromium, Total	mg/L	0.0000096	0.000440	0.100	0.0982	0.0982	0.102	0.0850 to 0.115	97.9	70.0 to 130	0.00	20.0
BC05696	Cobalt, Dissolved	mg/L	0.0000005	0.000147	0.100	0.101	0.0980	0.106	0.0850 to 0.115	101	70.0 to 130	3.02	20.0
BC05695	Cobalt, Total	mg/L	0.0000005	0.000147	0.100	0.102	0.101	0.105	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC05692	Fluoride	mg/L	-0.0193	0.125	2.50	2.95	2.93	2.59	2.25 to 2.75	102	80.0 to 120	0.680	20.0
BC05696	Iron, Dissolved	mg/L	-0.000434	0.0176	0.2	0.283	0.278	0.198	0.170 to 0.230	95.4	70.0 to 130	1.78	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/16/22 11:00  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-23A

**Laboratory ID Number:** BC05692

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05695	Iron, Total	mg/L	-0.000366	0.0176	0.2	0.240	0.241	0.196	0.170 to 0.230	101	70.0 to 130	0.416	20.0
BC05696	Lead, Dissolved	mg/L	0.0000035	0.000147	0.100	0.100	0.0994	0.0984	0.0850 to 0.115	100	70.0 to 130	0.602	20.0
BC05695	Lead, Total	mg/L	-0.0000022	0.000147	0.100	0.0940	0.0969	0.0989	0.0850 to 0.115	94.0	70.0 to 130	3.04	20.0
BC05696	Lithium, Dissolved	mg/L	-0.000245	0.0154	0.200	0.607	0.603	0.200	0.170 to 0.230	111	70.0 to 130	0.661	20.0
BC05695	Lithium, Total	mg/L	0.000005	0.0154	0.200	0.249	0.248	0.202	0.170 to 0.230	101	70.0 to 130	0.402	20.0
BC05696	Magnesium, Dissolved	mg/L	-0.00632	0.0462	5.00	25.8	25.6	5.13	4.25 to 5.75	98.0	70.0 to 130	0.778	20.0
BC05695	Magnesium, Total	mg/L	-0.000858	0.0462	5.00	5.92	5.87	5.09	4.25 to 5.75	103	70.0 to 130	0.848	20.0
BC05696	Manganese, Dissolved	mg/L	-0.0000044	0.0002	0.100	0.153	0.151	0.105	0.0850 to 0.115	97.7	70.0 to 130	1.32	20.0
BC05695	Manganese, Total	mg/L	0.0000292	0.0002	0.100	0.106	0.106	0.104	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BC05692	Mercury, Total by CVAA	mg/L	0.00000	0.000500	0.004	0.00401	0.00399	0.004	0.00340 to 0.00460	100	70.0 to 130	0.500	20.0
BC05696	Molybdenum, Dissolved	mg/L	0.0000088	0.0002	0.100	0.106	0.104	0.0983	0.0850 to 0.115	101	70.0 to 130	1.90	20.0
BC05695	Molybdenum, Total	mg/L	0.0000171	0.0002	0.100	0.0985	0.0975	0.100	0.0850 to 0.115	97.2	70.0 to 130	1.02	20.0
BC05696	Potassium, Dissolved	mg/L	0.00485	0.367	10.0	23.9	23.4	10.6	8.50 to 11.5	102	70.0 to 130	2.11	20.0
BC05695	Potassium, Total	mg/L	0.00208	0.367	10.0	13.7	13.5	10.5	8.50 to 11.5	104	70.0 to 130	1.47	20.0
BC05696	Selenium, Dissolved	mg/L	0.000179	0.00100	0.100	0.103	0.101	0.105	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BC05695	Selenium, Total	mg/L	-0.0000256	0.00100	0.100	0.100	0.0992	0.105	0.0850 to 0.115	100	70.0 to 130	0.803	20.0
BC05696	Silicon, Dissolved	mg/L	-0.000753	0.0440	1.00	5.47	5.39	0.991	0.850 to 1.15	96.0	70.0 to 130	1.47	20.0
BC05695	Silicon, Total	mg/L	-0.000676	0.0440	1.00	6.43	6.46	1.02	0.850 to 1.15	109	70.0 to 130	0.465	20.0
BC05696	Sodium, Dissolved	mg/L	0.0216	0.0660	5.00	1880	1740	5.04	4.25 to 5.75	4000	70.0 to 130	7.73	20.0
BC05695	Sodium, Total	mg/L	0.000376	0.0660	5.00	160	159	5.08	4.25 to 5.75	80.0	70.0 to 130	0.627	20.0
BC05692	Sulfate	mg/L	0.122	2.0	80.0	115	115	19.9	18.0 to 22.0	102	80.0 to 120	0.00	20.0
BC05696	Thallium, Dissolved	mg/L	0.0000022	0.000147	0.100	0.101	0.100	0.102	0.0850 to 0.115	101	70.0 to 130	0.995	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.



# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/16/22 11:00  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-23A

**Laboratory ID Number:** BC05692

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05695	Thallium, Total	mg/L	0.0000003	0.000147	0.100	0.0988	0.0990	0.102	0.0850 to 0.115	98.8	70.0 to 130	0.202	20.0
BC05693	Total Organic Carbon	mg/L	0.350	1.00	10.0	10.4	10.1	9.79		104	80.0 to 120	2.93	20.0

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**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

## Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/16/22 11:00  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-23A

**Laboratory ID Number:** BC05692

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05696	Alkalinity, Total as CaCO3	mg/L					112	50.8	45.0 to 55.0			2.71	10.0
BC05692	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	2.75	0.823	1.94	1.80 to 2.20	94.0	90.0 to 110	5.55	15.0
BC05695	Solids, Dissolved	mg/L	1.00	25.0			386	52.0	40.0 to 60.0			1.29	10.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-22S

**Location Code:** WMWMILAP  
**Collected:** 3/16/22 13:33  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05693

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	3/28/22 15:00	3/29/22 10:44		1.015	0.0672	mg/L	0.030000	0.1015	J
* Calcium, Total	3/28/22 15:00	3/29/22 13:17		10.15	97.5	mg/L	0.70035	4.06	
* Iron, Total	3/28/22 15:00	3/29/22 10:44		1.015	1.52	mg/L	0.008120	0.0406	
* Lithium, Total	3/28/22 15:00	3/29/22 10:44		1.015	0.0626	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/28/22 15:00	3/29/22 13:17		10.15	45.2	mg/L	0.21315	4.06	
Silica, Total (calc.)	3/28/22 15:00	3/29/22 10:44		1	31.0	mg/L			
Silicon, Total	3/28/22 15:00	3/29/22 10:44		1.015	14.5	mg/L	0.02030	0.25375	
* Sodium, Total	3/28/22 15:00	3/29/22 13:17		10.15	73.4	mg/L	0.3045	4.06	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	3/28/22 15:00	3/29/22 12:12		1.015	0.0667	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	3/28/22 15:00	3/29/22 14:04		10.15	114	mg/L	0.70035	4.06	
* Iron, Dissolved	3/28/22 15:00	3/29/22 12:12		1.015	1.51	mg/L	0.008120	0.0406	
* Lithium, Dissolved	3/28/22 15:00	3/29/22 12:12		1.015	0.0604	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	3/28/22 15:00	3/29/22 14:04		10.15	53.2	mg/L	0.21315	4.06	
Silica, Dissolved (calc.)	3/28/22 15:00	3/29/22 12:12		1	30.8	mg/L			
Silicon, Dissolved	3/28/22 15:00	3/29/22 12:12		1.015	14.4	mg/L	0.02030	0.25375	
* Sodium, Dissolved	3/28/22 15:00	3/29/22 14:04		10.15	85.6	mg/L	0.3045	4.06	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	3/21/22 10:00	3/21/22 19:07		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/21/22 10:00	3/21/22 19:07		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	3/21/22 10:00	3/21/22 19:07		1.015	0.000369	mg/L	0.000081	0.000203	
* Barium, Total	3/21/22 10:00	3/21/22 19:07		1.015	0.0530	mg/L	0.000102	0.000203	
* Beryllium, Total	3/21/22 10:00	3/21/22 19:07		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/21/22 10:00	3/21/22 19:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/21/22 10:00	3/21/22 19:07		1.015	0.000235	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/21/22 10:00	3/21/22 19:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	3/21/22 10:00	3/21/22 19:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/21/22 10:00	3/21/22 19:07		1.015	0.209	mg/L	0.000152	0.000203	
* Molybdenum, Total	3/21/22 10:00	3/21/22 19:07		1.015	0.000324	mg/L	0.000102	0.000203	
* Potassium, Total	3/21/22 10:00	3/21/22 19:07		1.015	1.81	mg/L	0.169505	0.5075	

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-22S

**Location Code:** WMWMILAP  
**Collected:** 3/16/22 13:33  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05693

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/21/22 10:00	3/21/22 19:07		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/21/22 10:00	3/21/22 19:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	3/21/22 11:05	3/21/22 17:07		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/21/22 11:05	3/21/22 17:07		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/21/22 11:05	3/21/22 17:07		1.015	0.000322	mg/L	0.000081	0.000203	
* Barium, Dissolved	3/21/22 11:05	3/21/22 17:07		1.015	0.0525	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/21/22 11:05	3/21/22 17:07		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/21/22 11:05	3/21/22 17:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/21/22 11:05	3/21/22 17:07		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	3/21/22 11:05	3/21/22 17:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	3/21/22 11:05	3/21/22 17:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/21/22 11:05	3/21/22 17:07		1.015	0.208	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/21/22 11:05	3/21/22 17:07		1.015	0.000314	mg/L	0.000102	0.000203	
* Potassium, Dissolved	3/21/22 11:05	3/21/22 17:07		1.015	1.77	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/21/22 11:05	3/21/22 17:07		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/21/22 11:05	3/21/22 17:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	3/18/22 17:13	3/19/22 00:03		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: ELH</b>							
* Nitrogen, Nitrate/Nitrite	3/23/22 14:02	3/23/22 14:02		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity, Total as CaCO3	3/29/22 12:50	3/29/22 15:42		1	235	mg/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	3/18/22 10:38	3/21/22 13:52		1	648	mg/L		50	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
Bicarbonate Alkalinity, (calc.)	3/29/22 12:50	3/29/22 15:42		1	232	mg/L			A
Carbonate Alkalinity, (calc.)	3/29/22 12:50	3/29/22 15:42		1	3.15	mg/L			A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/21/22 17:36	3/21/22 17:36		1	Not Detected	mg/L	1.00	2	U

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-22S

**Location Code:** WMWMILAP  
**Collected:** 3/16/22 13:33  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05693

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/21/22 12:04	3/21/22 12:04		20	127	mg/L	10.00	20	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 11:01	3/22/22 11:01		1	0.145	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/24/22 13:23	3/24/22 13:23		8	174	mg/L	4.8	16	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	3/16/22 13:29	3/16/22 13:29			1075.17	uS/cm			FA
pH	3/16/22 13:29	3/16/22 13:29			6.92	SU			FA
Temperature	3/16/22 13:29	3/16/22 13:29			21.28	C			FA
Turbidity	3/16/22 13:29	3/16/22 13:29			0.87	NTU			FA

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/16/22 13:33  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-22S

**Laboratory ID Number:** BC05693

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05696	Aluminum, Dissolved	mg/L	-0.000828	0.010	0.100	0.114	0.113	0.103	0.0850 to 0.115	105	70.0 to 130	0.881	20.0
BC05695	Aluminum, Total	mg/L	-0.000159	0.010	0.100	0.181	0.181	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC05696	Antimony, Dissolved	mg/L	0.000289	0.00100	0.100	0.105	0.105	0.0944	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BC05695	Antimony, Total	mg/L	0.000261	0.00100	0.100	0.0974	0.0967	0.0950	0.0850 to 0.115	97.4	70.0 to 130	0.721	20.0
BC05696	Arsenic, Dissolved	mg/L	0.0000140	0.000176	0.100	0.107	0.107	0.103	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BC05695	Arsenic, Total	mg/L	0.0000387	0.000176	0.100	0.102	0.101	0.104	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC05696	Barium, Dissolved	mg/L	-0.0000261	0.000200	0.100	3.66	3.71	0.102	0.0850 to 0.115	150	70.0 to 130	1.36	20.0
BC05695	Barium, Total	mg/L	0.0000059	0.000200	0.100	0.132	0.130	0.0997	0.0850 to 0.115	95.3	70.0 to 130	1.53	20.0
BC05696	Beryllium, Dissolved	mg/L	0.0000422	0.000880	0.100	0.101	0.101	0.0905	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC05695	Beryllium, Total	mg/L	0.0000184	0.000880	0.100	0.0901	0.0922	0.0982	0.0850 to 0.115	90.1	70.0 to 130	2.30	20.0
BC05696	Boron, Dissolved	mg/L	-0.000298	0.0650	1.00	1.19	1.16	0.986	0.850 to 1.15	104	70.0 to 130	2.55	20.0
BC05695	Boron, Total	mg/L	-0.000196	0.0650	1.00	1.14	1.13	0.985	0.850 to 1.15	102	70.0 to 130	0.881	20.0
BC05696	Cadmium, Dissolved	mg/L	0.0000066	0.000147	0.100	0.104	0.0994	0.104	0.0850 to 0.115	104	70.0 to 130	4.52	20.0
BC05695	Cadmium, Total	mg/L	0.0000062	0.000147	0.100	0.101	0.101	0.106	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC05696	Calcium, Dissolved	mg/L	-0.00416	0.152	5.00	79.8	75.4	4.83	4.25 to 5.75	236	70.0 to 130	5.67	20.0
BC05695	Calcium, Total	mg/L	-0.000866	0.152	5.00	7.59	7.42	4.78	4.25 to 5.75	98.6	70.0 to 130	2.27	20.0
BC05693	Chloride	mg/L	0.00143	1.00	200	322	345	10.1	9.00 to 11.0	97.5	80.0 to 120	6.90	20.0
BC05696	Chromium, Dissolved	mg/L	-0.0000315	0.000440	0.100	0.0989	0.0955	0.103	0.0850 to 0.115	98.9	70.0 to 130	3.50	20.0
BC05695	Chromium, Total	mg/L	0.0000096	0.000440	0.100	0.0982	0.0982	0.102	0.0850 to 0.115	97.9	70.0 to 130	0.00	20.0
BC05696	Cobalt, Dissolved	mg/L	0.0000005	0.000147	0.100	0.101	0.0980	0.106	0.0850 to 0.115	101	70.0 to 130	3.02	20.0
BC05695	Cobalt, Total	mg/L	0.0000005	0.000147	0.100	0.102	0.101	0.105	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC05696	Fluoride	mg/L	-0.0418	0.125	2.50	2.69	2.67	2.60	2.25 to 2.75	103	80.0 to 120	0.746	20.0
BC05696	Iron, Dissolved	mg/L	-0.000434	0.0176	0.2	0.283	0.278	0.198	0.170 to 0.230	95.4	70.0 to 130	1.78	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/16/22 13:33  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-22S

**Laboratory ID Number:** BC05693

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05695	Iron, Total	mg/L	-0.000366	0.0176	0.2	0.240	0.241	0.196	0.170 to 0.230	101	70.0 to 130	0.416	20.0
BC05696	Lead, Dissolved	mg/L	0.0000035	0.000147	0.100	0.100	0.0994	0.0984	0.0850 to 0.115	100	70.0 to 130	0.602	20.0
BC05695	Lead, Total	mg/L	-0.0000022	0.000147	0.100	0.0940	0.0969	0.0989	0.0850 to 0.115	94.0	70.0 to 130	3.04	20.0
BC05696	Lithium, Dissolved	mg/L	-0.000245	0.0154	0.200	0.607	0.603	0.200	0.170 to 0.230	111	70.0 to 130	0.661	20.0
BC05695	Lithium, Total	mg/L	0.000005	0.0154	0.200	0.249	0.248	0.202	0.170 to 0.230	101	70.0 to 130	0.402	20.0
BC05696	Magnesium, Dissolved	mg/L	-0.00632	0.0462	5.00	25.8	25.6	5.13	4.25 to 5.75	98.0	70.0 to 130	0.778	20.0
BC05695	Magnesium, Total	mg/L	-0.000858	0.0462	5.00	5.92	5.87	5.09	4.25 to 5.75	103	70.0 to 130	0.848	20.0
BC05696	Manganese, Dissolved	mg/L	-0.0000044	0.0002	0.100	0.153	0.151	0.105	0.0850 to 0.115	97.7	70.0 to 130	1.32	20.0
BC05695	Manganese, Total	mg/L	0.0000292	0.0002	0.100	0.106	0.106	0.104	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BC05696	Mercury, Total by CVAA	mg/L	0.00000	0.000500	0.004	0.00394	0.00396	0.004	0.00340 to 0.00460	98.5	70.0 to 130	0.506	20.0
BC05696	Molybdenum, Dissolved	mg/L	0.0000088	0.0002	0.100	0.106	0.104	0.0983	0.0850 to 0.115	101	70.0 to 130	1.90	20.0
BC05695	Molybdenum, Total	mg/L	0.0000171	0.0002	0.100	0.0985	0.0975	0.100	0.0850 to 0.115	97.2	70.0 to 130	1.02	20.0
BC05696	Potassium, Dissolved	mg/L	0.00485	0.367	10.0	23.9	23.4	10.6	8.50 to 11.5	102	70.0 to 130	2.11	20.0
BC05695	Potassium, Total	mg/L	0.00208	0.367	10.0	13.7	13.5	10.5	8.50 to 11.5	104	70.0 to 130	1.47	20.0
BC05696	Selenium, Dissolved	mg/L	0.000179	0.00100	0.100	0.103	0.101	0.105	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BC05695	Selenium, Total	mg/L	-0.0000256	0.00100	0.100	0.100	0.0992	0.105	0.0850 to 0.115	100	70.0 to 130	0.803	20.0
BC05696	Silicon, Dissolved	mg/L	-0.000753	0.0440	1.00	5.47	5.39	0.991	0.850 to 1.15	96.0	70.0 to 130	1.47	20.0
BC05695	Silicon, Total	mg/L	-0.000676	0.0440	1.00	6.43	6.46	1.02	0.850 to 1.15	109	70.0 to 130	0.465	20.0
BC05696	Sodium, Dissolved	mg/L	0.0216	0.0660	5.00	1880	1740	5.04	4.25 to 5.75	4000	70.0 to 130	7.73	20.0
BC05695	Sodium, Total	mg/L	0.000376	0.0660	5.00	160	159	5.08	4.25 to 5.75	80.0	70.0 to 130	0.627	20.0
BC05696	Sulfate	mg/L	-0.0131	2.0	160	229	237	19.8	18.0 to 22.0	102	80.0 to 120	3.43	20.0
BC05696	Thallium, Dissolved	mg/L	0.0000022	0.000147	0.100	0.101	0.100	0.102	0.0850 to 0.115	101	70.0 to 130	0.995	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/16/22 13:33  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-22S

**Laboratory ID Number:** BC05693

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BC05695	Thallium, Total	mg/L	0.0000003	0.000147	0.100	0.0988	0.0990	0.102	0.0850 to 0.115	98.8	70.0 to 130	0.202	20.0
BC05693	Total Organic Carbon	mg/L	0.350	1.00	10.0	10.4	10.1	9.79		104	80.0 to 120	2.93	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.



## Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/16/22 13:33  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-22S

**Laboratory ID Number:** BC05693

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05696	Alkalinity, Total as CaCO3	mg/L					112	50.8	45.0 to 55.0			2.71	10.0
BC05696	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	1.98	-0.004	1.92	1.80 to 2.20	99.0	90.0 to 110	0.00	15.0
BC05695	Solids, Dissolved	mg/L	1.00	25.0			386	52.0	40.0 to 60.0			1.29	10.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-22S DUP

**Location Code:** WMWMILAP  
**Collected:** 3/16/22 13:33  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05694

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: RDA</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	3/28/22 15:00	3/29/22 10:46		1.015	0.0671	mg/L	0.030000	0.1015	J
* Calcium, Total	3/28/22 15:00	3/29/22 13:19		10.15	98.4	mg/L	0.70035	4.06	
* Iron, Total	3/28/22 15:00	3/29/22 10:46		1.015	1.52	mg/L	0.008120	0.0406	
* Lithium, Total	3/28/22 15:00	3/29/22 10:46		1.015	0.0631	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/28/22 15:00	3/29/22 13:19		10.15	45.9	mg/L	0.21315	4.06	
Silica, Total (calc.)	3/28/22 15:00	3/29/22 10:46		1	30.4	mg/L			
Silicon, Total	3/28/22 15:00	3/29/22 10:46		1.015	14.2	mg/L	0.02030	0.25375	
* Sodium, Total	3/28/22 15:00	3/29/22 13:19		10.15	75.4	mg/L	0.3045	4.06	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: RDA</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	3/28/22 15:00	3/29/22 12:14		1.015	0.0659	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	3/28/22 15:00	3/29/22 14:06		10.15	106	mg/L	0.70035	4.06	
* Iron, Dissolved	3/28/22 15:00	3/29/22 12:14		1.015	1.52	mg/L	0.008120	0.0406	
* Lithium, Dissolved	3/28/22 15:00	3/29/22 12:14		1.015	0.0603	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	3/28/22 15:00	3/29/22 14:06		10.15	49.4	mg/L	0.21315	4.06	
Silica, Dissolved (calc.)	3/28/22 15:00	3/29/22 12:14		1	30.6	mg/L			
Silicon, Dissolved	3/28/22 15:00	3/29/22 12:14		1.015	14.3	mg/L	0.02030	0.25375	
* Sodium, Dissolved	3/28/22 15:00	3/29/22 14:06		10.15	77.9	mg/L	0.3045	4.06	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	3/21/22 10:00	3/21/22 19:11		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/21/22 10:00	3/21/22 19:11		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	3/21/22 10:00	3/21/22 19:11		1.015	0.000325	mg/L	0.000081	0.000203	
* Barium, Total	3/21/22 10:00	3/21/22 19:11		1.015	0.0530	mg/L	0.000102	0.000203	
* Beryllium, Total	3/21/22 10:00	3/21/22 19:11		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/21/22 10:00	3/21/22 19:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/21/22 10:00	3/21/22 19:11		1.015	0.000269	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/21/22 10:00	3/21/22 19:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	3/21/22 10:00	3/21/22 19:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/21/22 10:00	3/21/22 19:11		1.015	0.212	mg/L	0.000152	0.000203	
* Molybdenum, Total	3/21/22 10:00	3/21/22 19:11		1.015	0.000306	mg/L	0.000102	0.000203	
* Potassium, Total	3/21/22 10:00	3/21/22 19:11		1.015	1.82	mg/L	0.169505	0.5075	

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-22S DUP

**Location Code:** WMWMILAP  
**Collected:** 3/16/22 13:33  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05694

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/21/22 10:00	3/21/22 19:11		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/21/22 10:00	3/21/22 19:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	3/21/22 11:05	3/21/22 17:11		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/21/22 11:05	3/21/22 17:11		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/21/22 11:05	3/21/22 17:11		1.015	0.000338	mg/L	0.000081	0.000203	
* Barium, Dissolved	3/21/22 11:05	3/21/22 17:11		1.015	0.0508	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/21/22 11:05	3/21/22 17:11		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/21/22 11:05	3/21/22 17:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/21/22 11:05	3/21/22 17:11		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	3/21/22 11:05	3/21/22 17:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	3/21/22 11:05	3/21/22 17:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/21/22 11:05	3/21/22 17:11		1.015	0.217	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/21/22 11:05	3/21/22 17:11		1.015	0.000243	mg/L	0.000102	0.000203	
* Potassium, Dissolved	3/21/22 11:05	3/21/22 17:11		1.015	1.81	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/21/22 11:05	3/21/22 17:11		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/21/22 11:05	3/21/22 17:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	3/18/22 17:13	3/19/22 00:07		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: ELH</b>							
* Nitrogen, Nitrate/Nitrite	3/23/22 14:02	3/23/22 14:02		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity, Total as CaCO3	3/29/22 12:50	3/29/22 15:42		1	248	mg/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	3/18/22 10:38	3/21/22 13:52		1	642	mg/L		50	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
Bicarbonate Alkalinity, (calc.)	3/29/22 12:50	3/29/22 15:42		1	245	mg/L			A
Carbonate Alkalinity, (calc.)	3/29/22 12:50	3/29/22 15:42		1	2.71	mg/L			A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/21/22 18:58	3/21/22 18:58		1	Not Detected	mg/L	1.00	2	U

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-22S DUP

**Location Code:** WMWMILAP  
**Collected:** 3/16/22 13:33  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05694

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/21/22 12:29	3/21/22 12:29		10	140	mg/L	5.00	10	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 11:02	3/22/22 11:02		1	0.151	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/24/22 13:24	3/24/22 13:24		8	170	mg/L	4.8	16	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	3/16/22 13:29	3/16/22 13:29			1075.17	uS/cm			FA
pH	3/16/22 13:29	3/16/22 13:29			6.92	SU			FA
Temperature	3/16/22 13:29	3/16/22 13:29			21.28	C			FA
Turbidity	3/16/22 13:29	3/16/22 13:29			0.87	NTU			FA

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/16/22 13:33  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-22S DUP

**Laboratory ID Number:** BC05694

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BC05696	Aluminum, Dissolved	mg/L	-0.000828	0.010	0.100	0.114	0.113	0.103	0.0850 to 0.115	105	70.0 to 130	0.881	20.0
BC05695	Aluminum, Total	mg/L	-0.000159	0.010	0.100	0.181	0.181	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC05696	Antimony, Dissolved	mg/L	0.000289	0.00100	0.100	0.105	0.105	0.0944	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BC05695	Antimony, Total	mg/L	0.000261	0.00100	0.100	0.0974	0.0967	0.0950	0.0850 to 0.115	97.4	70.0 to 130	0.721	20.0
BC05696	Arsenic, Dissolved	mg/L	0.0000140	0.000176	0.100	0.107	0.107	0.103	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BC05695	Arsenic, Total	mg/L	0.0000387	0.000176	0.100	0.102	0.101	0.104	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC05696	Barium, Dissolved	mg/L	-0.0000261	0.000200	0.100	3.66	3.71	0.102	0.0850 to 0.115	150	70.0 to 130	1.36	20.0
BC05695	Barium, Total	mg/L	0.0000059	0.000200	0.100	0.132	0.130	0.0997	0.0850 to 0.115	95.3	70.0 to 130	1.53	20.0
BC05696	Beryllium, Dissolved	mg/L	0.0000422	0.000880	0.100	0.101	0.101	0.0905	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC05695	Beryllium, Total	mg/L	0.0000184	0.000880	0.100	0.0901	0.0922	0.0982	0.0850 to 0.115	90.1	70.0 to 130	2.30	20.0
BC05696	Boron, Dissolved	mg/L	-0.000298	0.0650	1.00	1.19	1.16	0.986	0.850 to 1.15	104	70.0 to 130	2.55	20.0
BC05695	Boron, Total	mg/L	-0.000196	0.0650	1.00	1.14	1.13	0.985	0.850 to 1.15	102	70.0 to 130	0.881	20.0
BC05696	Cadmium, Dissolved	mg/L	0.0000066	0.000147	0.100	0.104	0.0994	0.104	0.0850 to 0.115	104	70.0 to 130	4.52	20.0
BC05695	Cadmium, Total	mg/L	0.0000062	0.000147	0.100	0.101	0.101	0.106	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC05696	Calcium, Dissolved	mg/L	-0.00416	0.152	5.00	79.8	75.4	4.83	4.25 to 5.75	236	70.0 to 130	5.67	20.0
BC05695	Calcium, Total	mg/L	-0.000866	0.152	5.00	7.59	7.42	4.78	4.25 to 5.75	98.6	70.0 to 130	2.27	20.0
BC05696	Chloride	mg/L	0.0741	1.00	2000	4950	4780	10.1	9.00 to 11.0	114	80.0 to 120	3.49	20.0
BC05696	Chromium, Dissolved	mg/L	-0.0000315	0.000440	0.100	0.0989	0.0955	0.103	0.0850 to 0.115	98.9	70.0 to 130	3.50	20.0
BC05695	Chromium, Total	mg/L	0.0000096	0.000440	0.100	0.0982	0.0982	0.102	0.0850 to 0.115	97.9	70.0 to 130	0.00	20.0
BC05696	Cobalt, Dissolved	mg/L	0.0000005	0.000147	0.100	0.101	0.0980	0.106	0.0850 to 0.115	101	70.0 to 130	3.02	20.0
BC05695	Cobalt, Total	mg/L	0.0000005	0.000147	0.100	0.102	0.101	0.105	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC05696	Fluoride	mg/L	-0.0418	0.125	2.50	2.69	2.67	2.60	2.25 to 2.75	103	80.0 to 120	0.746	20.0
BC05696	Iron, Dissolved	mg/L	-0.000434	0.0176	0.2	0.283	0.278	0.198	0.170 to 0.230	95.4	70.0 to 130	1.78	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/16/22 13:33  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-22S DUP

**Laboratory ID Number:** BC05694

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05695	Iron, Total	mg/L	-0.000366	0.0176	0.2	0.240	0.241	0.196	0.170 to 0.230	101	70.0 to 130	0.416	20.0
BC05696	Lead, Dissolved	mg/L	0.0000035	0.000147	0.100	0.100	0.0994	0.0984	0.0850 to 0.115	100	70.0 to 130	0.602	20.0
BC05695	Lead, Total	mg/L	-0.0000022	0.000147	0.100	0.0940	0.0969	0.0989	0.0850 to 0.115	94.0	70.0 to 130	3.04	20.0
BC05696	Lithium, Dissolved	mg/L	-0.000245	0.0154	0.200	0.607	0.603	0.200	0.170 to 0.230	111	70.0 to 130	0.661	20.0
BC05695	Lithium, Total	mg/L	0.000005	0.0154	0.200	0.249	0.248	0.202	0.170 to 0.230	101	70.0 to 130	0.402	20.0
BC05696	Magnesium, Dissolved	mg/L	-0.00632	0.0462	5.00	25.8	25.6	5.13	4.25 to 5.75	98.0	70.0 to 130	0.778	20.0
BC05695	Magnesium, Total	mg/L	-0.000858	0.0462	5.00	5.92	5.87	5.09	4.25 to 5.75	103	70.0 to 130	0.848	20.0
BC05696	Manganese, Dissolved	mg/L	-0.0000044	0.0002	0.100	0.153	0.151	0.105	0.0850 to 0.115	97.7	70.0 to 130	1.32	20.0
BC05695	Manganese, Total	mg/L	0.0000292	0.0002	0.100	0.106	0.106	0.104	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BC05696	Mercury, Total by CVAA	mg/L	0.00000	0.000500	0.004	0.00394	0.00396	0.004	0.00340 to 0.00460	98.5	70.0 to 130	0.506	20.0
BC05696	Molybdenum, Dissolved	mg/L	0.0000088	0.0002	0.100	0.106	0.104	0.0983	0.0850 to 0.115	101	70.0 to 130	1.90	20.0
BC05695	Molybdenum, Total	mg/L	0.0000171	0.0002	0.100	0.0985	0.0975	0.100	0.0850 to 0.115	97.2	70.0 to 130	1.02	20.0
BC05696	Potassium, Dissolved	mg/L	0.00485	0.367	10.0	23.9	23.4	10.6	8.50 to 11.5	102	70.0 to 130	2.11	20.0
BC05695	Potassium, Total	mg/L	0.00208	0.367	10.0	13.7	13.5	10.5	8.50 to 11.5	104	70.0 to 130	1.47	20.0
BC05696	Selenium, Dissolved	mg/L	0.000179	0.00100	0.100	0.103	0.101	0.105	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BC05695	Selenium, Total	mg/L	-0.0000256	0.00100	0.100	0.100	0.0992	0.105	0.0850 to 0.115	100	70.0 to 130	0.803	20.0
BC05696	Silicon, Dissolved	mg/L	-0.000753	0.0440	1.00	5.47	5.39	0.991	0.850 to 1.15	96.0	70.0 to 130	1.47	20.0
BC05695	Silicon, Total	mg/L	-0.000676	0.0440	1.00	6.43	6.46	1.02	0.850 to 1.15	109	70.0 to 130	0.465	20.0
BC05696	Sodium, Dissolved	mg/L	0.0216	0.0660	5.00	1880	1740	5.04	4.25 to 5.75	4000	70.0 to 130	7.73	20.0
BC05695	Sodium, Total	mg/L	0.000376	0.0660	5.00	160	159	5.08	4.25 to 5.75	80.0	70.0 to 130	0.627	20.0
BC05696	Sulfate	mg/L	-0.0131	2.0	160	229	237	19.8	18.0 to 22.0	102	80.0 to 120	3.43	20.0
BC05696	Thallium, Dissolved	mg/L	0.0000022	0.000147	0.100	0.101	0.100	0.102	0.0850 to 0.115	101	70.0 to 130	0.995	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/16/22 13:33  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-22S DUP

**Laboratory ID Number:** BC05694

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BC05695	Thallium, Total	mg/L	0.0000003	0.000147	0.100	0.0988	0.0990	0.102	0.0850 to 0.115	98.8	70.0 to 130	0.202	20.0
BC05696	Total Organic Carbon	mg/L	0.330	1.00	10.0	10.3	10.3	9.91		103	80.0 to 120	0.00	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

## Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/16/22 13:33  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-22S DUP

**Laboratory ID Number:** BC05694

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05696	Alkalinity, Total as CaCO3	mg/L					112	50.8	45.0 to 55.0			2.71	10.0
BC05696	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	1.98	-0.004	1.92	1.80 to 2.20	99.0	90.0 to 110	0.00	15.0
BC05695	Solids, Dissolved	mg/L	1.00	25.0			386	52.0	40.0 to 60.0			1.29	10.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.



# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-22I

**Location Code:** WMWMLAP  
**Collected:** 3/16/22 14:58  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05695

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	3/28/22 15:00	3/29/22 10:53		1.015	0.121	mg/L	0.030000	0.1015		
* Calcium, Total	3/28/22 15:00	3/29/22 10:53		1.015	2.66	mg/L	0.070035	0.406		
* Iron, Total	3/28/22 15:00	3/29/22 10:53		1.015	0.0386	mg/L	0.008120	0.0406	J	
* Lithium, Total	3/28/22 15:00	3/29/22 10:53		1.015	0.0469	mg/L	0.007105	0.01999956		
* Magnesium, Total	3/28/22 15:00	3/29/22 10:53		1.015	0.748	mg/L	0.021315	0.406		
Silica, Total (calc.)	3/28/22 15:00	3/29/22 10:53		1	11.4	mg/L				
Silicon, Total	3/28/22 15:00	3/29/22 10:53		1.015	5.34	mg/L	0.02030	0.25375		
* Sodium, Total	3/28/22 15:00	3/29/22 13:21		10.15	156	mg/L	0.3045	4.06	RA	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Dissolved	3/28/22 15:00	3/29/22 12:15		1.015	0.121	mg/L	0.030000	0.1015		
* Calcium, Dissolved	3/28/22 15:00	3/29/22 12:15		1.015	2.73	mg/L	0.070035	0.406		
* Iron, Dissolved	3/28/22 15:00	3/29/22 12:15		1.015	0.0203	mg/L	0.008120	0.0406	J	
* Lithium, Dissolved	3/28/22 15:00	3/29/22 12:15		1.015	0.0466	mg/L	0.007105	0.01999956		
* Magnesium, Dissolved	3/28/22 15:00	3/29/22 12:15		1.015	0.747	mg/L	0.021315	0.406		
Silica, Dissolved (calc.)	3/28/22 15:00	3/29/22 12:15		1	11.0	mg/L				
Silicon, Dissolved	3/28/22 15:00	3/29/22 12:15		1.015	5.14	mg/L	0.02030	0.25375		
* Sodium, Dissolved	3/28/22 15:00	3/29/22 14:08		101.5	178	mg/L	3.045	40.6		
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	3/21/22 10:00	3/21/22 19:14		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	3/21/22 10:00	3/21/22 19:14		1.015	0.0779	mg/L	0.006090	0.01015		
* Arsenic, Total	3/21/22 10:00	3/21/22 19:14		1.015	0.000259	mg/L	0.000081	0.000203		
* Barium, Total	3/21/22 10:00	3/21/22 19:14		1.015	0.0367	mg/L	0.000102	0.000203		
* Beryllium, Total	3/21/22 10:00	3/21/22 19:14		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	3/21/22 10:00	3/21/22 19:14		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	3/21/22 10:00	3/21/22 19:14		1.015	0.000300	mg/L	0.000203	0.001015	J	
* Cobalt, Total	3/21/22 10:00	3/21/22 19:14		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	3/21/22 10:00	3/21/22 19:14		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	3/21/22 10:00	3/21/22 19:14		1.015	0.00588	mg/L	0.000152	0.000203		
* Molybdenum, Total	3/21/22 10:00	3/21/22 19:14		1.015	0.00135	mg/L	0.000102	0.000203		
* Potassium, Total	3/21/22 10:00	3/21/22 19:14		1.015	3.32	mg/L	0.169505	0.5075		

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-22I

**Location Code:** WMWMILAP  
**Collected:** 3/16/22 14:58  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05695

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/21/22 10:00	3/21/22 19:14		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/21/22 10:00	3/21/22 19:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	3/21/22 11:05	3/21/22 17:14		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/21/22 11:05	3/21/22 17:14		1.015	0.0121	mg/L	0.006090	0.01015	
* Arsenic, Dissolved	3/21/22 11:05	3/21/22 17:14		1.015	0.000328	mg/L	0.000081	0.000203	
* Barium, Dissolved	3/21/22 11:05	3/21/22 17:14		1.015	0.0387	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/21/22 11:05	3/21/22 17:14		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/21/22 11:05	3/21/22 17:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/21/22 11:05	3/21/22 17:14		1.015	0.000229	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	3/21/22 11:05	3/21/22 17:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	3/21/22 11:05	3/21/22 17:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/21/22 11:05	3/21/22 17:14		1.015	0.00587	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/21/22 11:05	3/21/22 17:14		1.015	0.00131	mg/L	0.000102	0.000203	
* Potassium, Dissolved	3/21/22 11:05	3/21/22 17:14		1.015	3.23	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/21/22 11:05	3/21/22 17:14		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/21/22 11:05	3/21/22 17:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	3/18/22 17:13	3/19/22 00:11		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: ELH</b>							
* Nitrogen, Nitrate/Nitrite	3/23/22 14:03	3/23/22 14:03		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity, Total as CaCO3	3/29/22 12:50	3/29/22 15:42		1	272	mg/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	3/18/22 10:38	3/21/22 13:52		1	391	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
Bicarbonate Alkalinity, (calc.)	3/29/22 12:50	3/29/22 15:42		1	266	mg/L			
Carbonate Alkalinity, (calc.)	3/29/22 12:50	3/29/22 15:42		1	6.13	mg/L			
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/21/22 19:18	3/21/22 19:18		1	Not Detected	mg/L	1.00	2	U

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-22I

**Location Code:** WMWMILAP  
**Collected:** 3/16/22 14:58  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05695

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/21/22 12:31	3/21/22 12:31		5	47.3	mg/L	2.50	5	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 11:03	3/22/22 11:03		1	0.222	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/24/22 13:25	3/24/22 13:25		1	24.8	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	3/16/22 14:55	3/16/22 14:55			638.79	uS/cm			FA
pH	3/16/22 14:55	3/16/22 14:55			7.94	SU			FA
Temperature	3/16/22 14:55	3/16/22 14:55			21.58	C			FA
Turbidity	3/16/22 14:55	3/16/22 14:55			1.85	NTU			FA

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/16/22 14:58  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-22I

**Laboratory ID Number:** BC05695

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05696	Aluminum, Dissolved	mg/L	-0.000828	0.010	0.100	0.114	0.113	0.103	0.0850 to 0.115	105	70.0 to 130	0.881	20.0
BC05695	Aluminum, Total	mg/L	-0.000159	0.010	0.100	0.181	0.181	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC05696	Antimony, Dissolved	mg/L	0.000289	0.00100	0.100	0.105	0.105	0.0944	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BC05695	Antimony, Total	mg/L	0.000261	0.00100	0.100	0.0974	0.0967	0.0950	0.0850 to 0.115	97.4	70.0 to 130	0.721	20.0
BC05696	Arsenic, Dissolved	mg/L	0.0000140	0.000176	0.100	0.107	0.107	0.103	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BC05695	Arsenic, Total	mg/L	0.0000387	0.000176	0.100	0.102	0.101	0.104	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC05696	Barium, Dissolved	mg/L	-0.0000261	0.000200	0.100	3.66	3.71	0.102	0.0850 to 0.115	150	70.0 to 130	1.36	20.0
BC05695	Barium, Total	mg/L	0.0000059	0.000200	0.100	0.132	0.130	0.0997	0.0850 to 0.115	95.3	70.0 to 130	1.53	20.0
BC05696	Beryllium, Dissolved	mg/L	0.0000422	0.000880	0.100	0.101	0.101	0.0905	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC05695	Beryllium, Total	mg/L	0.0000184	0.000880	0.100	0.0901	0.0922	0.0982	0.0850 to 0.115	90.1	70.0 to 130	2.30	20.0
BC05696	Boron, Dissolved	mg/L	-0.000298	0.0650	1.00	1.19	1.16	0.986	0.850 to 1.15	104	70.0 to 130	2.55	20.0
BC05695	Boron, Total	mg/L	-0.000196	0.0650	1.00	1.14	1.13	0.985	0.850 to 1.15	102	70.0 to 130	0.881	20.0
BC05696	Cadmium, Dissolved	mg/L	0.0000066	0.000147	0.100	0.104	0.0994	0.104	0.0850 to 0.115	104	70.0 to 130	4.52	20.0
BC05695	Cadmium, Total	mg/L	0.0000062	0.000147	0.100	0.101	0.101	0.106	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC05696	Calcium, Dissolved	mg/L	-0.00416	0.152	5.00	79.8	75.4	4.83	4.25 to 5.75	236	70.0 to 130	5.67	20.0
BC05695	Calcium, Total	mg/L	-0.000866	0.152	5.00	7.59	7.42	4.78	4.25 to 5.75	98.6	70.0 to 130	2.27	20.0
BC05696	Chloride	mg/L	0.0741	1.00	2000	4950	4780	10.1	9.00 to 11.0	114	80.0 to 120	3.49	20.0
BC05696	Chromium, Dissolved	mg/L	-0.0000315	0.000440	0.100	0.0989	0.0955	0.103	0.0850 to 0.115	98.9	70.0 to 130	3.50	20.0
BC05695	Chromium, Total	mg/L	0.0000096	0.000440	0.100	0.0982	0.0982	0.102	0.0850 to 0.115	97.9	70.0 to 130	0.00	20.0
BC05696	Cobalt, Dissolved	mg/L	0.0000005	0.000147	0.100	0.101	0.0980	0.106	0.0850 to 0.115	101	70.0 to 130	3.02	20.0
BC05695	Cobalt, Total	mg/L	0.0000005	0.000147	0.100	0.102	0.101	0.105	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC05696	Fluoride	mg/L	-0.0418	0.125	2.50	2.69	2.67	2.60	2.25 to 2.75	103	80.0 to 120	0.746	20.0
BC05696	Iron, Dissolved	mg/L	-0.000434	0.0176	0.2	0.283	0.278	0.198	0.170 to 0.230	95.4	70.0 to 130	1.78	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/16/22 14:58  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-22I

**Laboratory ID Number:** BC05695

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Limit	Prec				
BC05695	Iron, Total	mg/L	-0.000366	0.0176	0.2	0.240	0.241	0.196	0.170 to 0.230	101	70.0 to 130	0.416	20.0	
BC05696	Lead, Dissolved	mg/L	0.0000035	0.000147	0.100	0.100	0.0994	0.0984	0.0850 to 0.115	100	70.0 to 130	0.602	20.0	
BC05695	Lead, Total	mg/L	-0.0000022	0.000147	0.100	0.0940	0.0969	0.0989	0.0850 to 0.115	94.0	70.0 to 130	3.04	20.0	
BC05696	Lithium, Dissolved	mg/L	-0.000245	0.0154	0.200	0.607	0.603	0.200	0.170 to 0.230	111	70.0 to 130	0.661	20.0	
BC05695	Lithium, Total	mg/L	0.000005	0.0154	0.200	0.249	0.248	0.202	0.170 to 0.230	101	70.0 to 130	0.402	20.0	
BC05696	Magnesium, Dissolved	mg/L	-0.00632	0.0462	5.00	25.8	25.6	5.13	4.25 to 5.75	98.0	70.0 to 130	0.778	20.0	
BC05695	Magnesium, Total	mg/L	-0.000858	0.0462	5.00	5.92	5.87	5.09	4.25 to 5.75	103	70.0 to 130	0.848	20.0	
BC05696	Manganese, Dissolved	mg/L	-0.0000044	0.0002	0.100	0.153	0.151	0.105	0.0850 to 0.115	97.7	70.0 to 130	1.32	20.0	
BC05695	Manganese, Total	mg/L	0.0000292	0.0002	0.100	0.106	0.106	0.104	0.0850 to 0.115	100	70.0 to 130	0.00	20.0	
BC05696	Mercury, Total by CVAA	mg/L	0.00000	0.000500	0.004	0.00394	0.00396	0.004	0.00340 to 0.00460	98.5	70.0 to 130	0.506	20.0	
BC05696	Molybdenum, Dissolved	mg/L	0.0000088	0.0002	0.100	0.106	0.104	0.0983	0.0850 to 0.115	101	70.0 to 130	1.90	20.0	
BC05695	Molybdenum, Total	mg/L	0.0000171	0.0002	0.100	0.0985	0.0975	0.100	0.0850 to 0.115	97.2	70.0 to 130	1.02	20.0	
BC05696	Potassium, Dissolved	mg/L	0.00485	0.367	10.0	23.9	23.4	10.6	8.50 to 11.5	102	70.0 to 130	2.11	20.0	
BC05695	Potassium, Total	mg/L	0.00208	0.367	10.0	13.7	13.5	10.5	8.50 to 11.5	104	70.0 to 130	1.47	20.0	
BC05696	Selenium, Dissolved	mg/L	0.000179	0.00100	0.100	0.103	0.101	0.105	0.0850 to 0.115	103	70.0 to 130	1.96	20.0	
BC05695	Selenium, Total	mg/L	-0.0000256	0.00100	0.100	0.100	0.0992	0.105	0.0850 to 0.115	100	70.0 to 130	0.803	20.0	
BC05696	Silicon, Dissolved	mg/L	-0.000753	0.0440	1.00	5.47	5.39	0.991	0.850 to 1.15	96.0	70.0 to 130	1.47	20.0	
BC05695	Silicon, Total	mg/L	-0.000676	0.0440	1.00	6.43	6.46	1.02	0.850 to 1.15	109	70.0 to 130	0.465	20.0	
BC05696	Sodium, Dissolved	mg/L	0.0216	0.0660	5.00	1880	1740	5.04	4.25 to 5.75	4000	70.0 to 130	7.73	20.0	
BC05695	Sodium, Total	mg/L	0.000376	0.0660	5.00	160	159	5.08	4.25 to 5.75	80.0	70.0 to 130	0.627	20.0	
BC05696	Sulfate	mg/L	-0.0131	2.0	160	229	237	19.8	18.0 to 22.0	102	80.0 to 120	3.43	20.0	
BC05696	Thallium, Dissolved	mg/L	0.0000022	0.000147	0.100	0.101	0.100	0.102	0.0850 to 0.115	101	70.0 to 130	0.995	20.0	

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/16/22 14:58  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-22I

**Laboratory ID Number:** BC05695

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BC05695	Thallium, Total	mg/L	0.0000003	0.000147	0.100	0.0988	0.0990	0.102	0.0850 to 0.115	98.8	70.0 to 130	0.202	20.0
BC05696	Total Organic Carbon	mg/L	0.330	1.00	10.0	10.3	10.3	9.91		103	80.0 to 120	0.00	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

## Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/16/22 14:58  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-22I

**Laboratory ID Number:** BC05695

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec Rec	Rec Limit	Prec	Prec Limit
BC05696	Alkalinity, Total as CaCO3	mg/L					112	50.8	45.0 to 55.0			2.71	10.0
BC05696	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	1.98	-0.004	1.92	1.80 to 2.20	99.0	90.0 to 110	0.00	15.0
BC05695	Solids, Dissolved	mg/L	1.00	25.0			386	52.0	40.0 to 60.0			1.29	10.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-22D

**Location Code:** WMWMILAP  
**Collected:** 3/17/22 11:13  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05696

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	3/28/22 15:00	3/29/22 11:04		1.015	0.153	mg/L	0.030000	0.1015	
* Calcium, Total	3/28/22 15:00	3/29/22 11:12		50.75	71.2	mg/L	3.50175	20.3	RA
* Iron, Total	3/28/22 15:00	3/29/22 11:04		1.015	0.0971	mg/L	0.008120	0.0406	
* Lithium, Total	3/28/22 15:00	3/29/22 11:04		1.015	0.369	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/28/22 15:00	3/29/22 11:04		1.015	20.6	mg/L	0.021315	0.406	
Silica, Total (calc.)	3/28/22 15:00	3/29/22 11:04		1	9.76	mg/L			
Silicon, Total	3/28/22 15:00	3/29/22 11:04		1.015	4.56	mg/L	0.02030	0.25375	
* Sodium, Total	3/28/22 15:00	3/29/22 11:12		50.75	1760	mg/L	1.5225	20.3	RA
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	3/28/22 15:00	3/29/22 12:17		1.015	0.151	mg/L	0.030000	0.1015	
* Calcium, Dissolved	3/28/22 15:00	3/29/22 14:10		50.75	68.0	mg/L	3.50175	20.3	RA
* Iron, Dissolved	3/28/22 15:00	3/29/22 12:17		1.015	0.0921	mg/L	0.008120	0.0406	
* Lithium, Dissolved	3/28/22 15:00	3/29/22 12:17		1.015	0.385	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	3/28/22 15:00	3/29/22 12:17		1.015	20.9	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	3/28/22 15:00	3/29/22 12:17		1	9.65	mg/L			
Silicon, Dissolved	3/28/22 15:00	3/29/22 12:17		1.015	4.51	mg/L	0.02030	0.25375	
* Sodium, Dissolved	3/28/22 15:00	3/29/22 14:10		50.75	1680	mg/L	1.5225	20.3	RA
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	3/21/22 10:00	3/21/22 19:43		1.015	0.00114	mg/L	0.000508	0.001015	
* Aluminum, Total	3/21/22 10:00	3/21/22 19:43		1.015	0.0125	mg/L	0.006090	0.01015	
* Arsenic, Total	3/21/22 10:00	3/21/22 19:43		1.015	0.00354	mg/L	0.000081	0.000203	
* Barium, Total	3/21/22 10:00	3/22/22 13:05		5.075	2.95	mg/L	0.000508	0.001015	RA
* Beryllium, Total	3/21/22 10:00	3/21/22 19:43		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/21/22 10:00	3/21/22 19:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/21/22 10:00	3/21/22 19:43		1.015	0.000659	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/21/22 10:00	3/21/22 19:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	3/21/22 10:00	3/21/22 19:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/21/22 10:00	3/21/22 19:43		1.015	0.0578	mg/L	0.000152	0.000203	
* Molybdenum, Total	3/21/22 10:00	3/21/22 19:43		1.015	0.00897	mg/L	0.000102	0.000203	
* Potassium, Total	3/21/22 10:00	3/21/22 19:43		1.015	16.2	mg/L	0.169505	0.5075	

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.



# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-22D

**Location Code:** WMWMILAP  
**Collected:** 3/17/22 11:13  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05696

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/21/22 10:00	3/21/22 19:43		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/21/22 10:00	3/21/22 19:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	3/21/22 11:05	3/21/22 17:18		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/21/22 11:05	3/21/22 17:18		1.015	0.00879	mg/L	0.006090	0.01015	J
* Arsenic, Dissolved	3/21/22 11:05	3/21/22 17:18		1.015	0.00232	mg/L	0.000081	0.000203	
* Barium, Dissolved	3/21/22 11:05	3/22/22 12:40		5.075	3.51	mg/L	0.000508	0.001015	RA
* Beryllium, Dissolved	3/21/22 11:05	3/21/22 17:18		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/21/22 11:05	3/21/22 17:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/21/22 11:05	3/21/22 17:18		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	3/21/22 11:05	3/21/22 17:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	3/21/22 11:05	3/21/22 17:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/21/22 11:05	3/21/22 17:18		1.015	0.0553	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/21/22 11:05	3/21/22 17:18		1.015	0.00542	mg/L	0.000102	0.000203	
* Potassium, Dissolved	3/21/22 11:05	3/21/22 17:18		1.015	13.7	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/21/22 11:05	3/21/22 17:18		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/21/22 11:05	3/21/22 17:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	3/18/22 17:13	3/19/22 00:15		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: ELH</b>							
* Nitrogen, Nitrate/Nitrite	3/23/22 14:04	3/23/22 14:04		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity, Total as CaCO3	3/29/22 12:50	3/29/22 15:42		1	109	mg/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	3/23/22 13:04	3/24/22 14:33		1	4600	mg/L		416.7	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
Bicarbonate Alkalinity, (calc.)	3/29/22 12:50	3/29/22 15:42		1	108	mg/L			A
Carbonate Alkalinity, (calc.)	3/29/22 12:50	3/29/22 15:42		1	1.04	mg/L			A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: ELH</b>							
* Total Organic Carbon	3/21/22 19:38	3/21/22 19:38		1	Not Detected	mg/L	1.00	2	U

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-22D

**Location Code:** WMWMILAP  
**Collected:** 3/17/22 11:13  
**Customer ID:**  
**Submittal Date:** 3/17/22 14:19

**Laboratory ID Number:** BC05696

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	3/21/22 12:32	3/21/22 12:32		200	2660	mg/L	100.00	200	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	3/22/22 11:04	3/22/22 11:04		1	0.116	mg/L	0.06	0.125	J
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	3/24/22 13:27	3/24/22 13:27		8	66.2	mg/L	4.8	16	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	3/17/22 11:10	3/17/22 11:10			7738.13	uS/cm			FA
pH	3/17/22 11:10	3/17/22 11:10			7.96	SU			FA
Temperature	3/17/22 11:10	3/17/22 11:10			22.20	C			FA
Turbidity	3/17/22 11:10	3/17/22 11:10			0.99	NTU			FA

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/17/22 11:13  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-22D

**Laboratory ID Number:** BC05696

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC05696	Aluminum, Dissolved	mg/L	-0.000828	0.010	0.100	0.114	0.113	0.103	0.0850 to 0.115	105	70.0 to 130	0.881	20.0
BC05696	Aluminum, Total	mg/L	-0.000166	0.010	0.100	0.117	0.116	0.105	0.0850 to 0.115	104	70.0 to 130	0.858	20.0
BC05696	Antimony, Dissolved	mg/L	0.000289	0.00100	0.100	0.105	0.105	0.0944	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BC05696	Antimony, Total	mg/L	0.000389	0.00100	0.100	0.114	0.111	0.0974	0.0850 to 0.115	113	70.0 to 130	2.67	20.0
BC05696	Arsenic, Dissolved	mg/L	0.0000140	0.000176	0.100	0.107	0.107	0.103	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BC05696	Arsenic, Total	mg/L	-0.0000024	0.000176	0.100	0.107	0.108	0.103	0.0850 to 0.115	103	70.0 to 130	0.930	20.0
BC05696	Barium, Dissolved	mg/L	-0.0000261	0.000200	0.100	3.66	3.71	0.102	0.0850 to 0.115	150	70.0 to 130	1.36	20.0
BC05696	Barium, Total	mg/L	-0.0000028	0.000200	0.100	2.98	3.02	0.103	0.0850 to 0.115	30.0	70.0 to 130	1.33	20.0
BC05696	Beryllium, Dissolved	mg/L	0.0000422	0.000880	0.100	0.101	0.101	0.0905	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC05696	Beryllium, Total	mg/L	0.000028	0.000880	0.100	0.0955	0.0963	0.0901	0.0850 to 0.115	95.5	70.0 to 130	0.834	20.0
BC05696	Boron, Dissolved	mg/L	-0.000298	0.0650	1.00	1.19	1.16	0.986	0.850 to 1.15	104	70.0 to 130	2.55	20.0
BC05696	Boron, Total	mg/L	-0.000182	0.0650	1.00	1.20	1.18	0.964	0.850 to 1.15	105	70.0 to 130	1.68	20.0
BC05696	Cadmium, Dissolved	mg/L	0.0000066	0.000147	0.100	0.104	0.0994	0.104	0.0850 to 0.115	104	70.0 to 130	4.52	20.0
BC05696	Cadmium, Total	mg/L	0.0000062	0.000147	0.100	0.102	0.100	0.103	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BC05696	Calcium, Dissolved	mg/L	-0.00416	0.152	5.00	79.8	75.4	4.83	4.25 to 5.75	236	70.0 to 130	5.67	20.0
BC05696	Calcium, Total	mg/L	-0.00953	0.152	5.00	74.5	73.6	4.82	4.25 to 5.75	66.0	70.0 to 130	1.22	20.0
BC05696	Chloride	mg/L	0.0741	1.00	2000	4950	4780	10.1	9.00 to 11.0	114	80.0 to 120	3.49	20.0
BC05696	Chromium, Dissolved	mg/L	-0.0000315	0.000440	0.100	0.0989	0.0955	0.103	0.0850 to 0.115	98.9	70.0 to 130	3.50	20.0
BC05696	Chromium, Total	mg/L	-0.0000012	0.000440	0.100	0.100	0.0989	0.103	0.0850 to 0.115	99.3	70.0 to 130	1.11	20.0
BC05696	Cobalt, Dissolved	mg/L	0.0000005	0.000147	0.100	0.101	0.0980	0.106	0.0850 to 0.115	101	70.0 to 130	3.02	20.0
BC05696	Cobalt, Total	mg/L	0.0000057	0.000147	0.100	0.101	0.0998	0.105	0.0850 to 0.115	101	70.0 to 130	1.20	20.0
BC05696	Fluoride	mg/L	-0.0418	0.125	2.50	2.69	2.67	2.60	2.25 to 2.75	103	80.0 to 120	0.746	20.0
BC05696	Iron, Dissolved	mg/L	-0.000434	0.0176	0.2	0.283	0.278	0.198	0.170 to 0.230	95.4	70.0 to 130	1.78	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/17/22 11:13  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-22D

**Laboratory ID Number:** BC05696

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC05696	Iron, Total	mg/L	-0.000387	0.0176	0.2	0.291	0.287	0.195	0.170 to 0.230	97.0	70.0 to 130	1.38	20.0
BC05696	Lead, Dissolved	mg/L	0.0000035	0.000147	0.100	0.100	0.0994	0.0984	0.0850 to 0.115	100	70.0 to 130	0.602	20.0
BC05696	Lead, Total	mg/L	-0.0000004	0.000147	0.100	0.100	0.100	0.0991	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BC05696	Lithium, Dissolved	mg/L	-0.000245	0.0154	0.200	0.607	0.603	0.200	0.170 to 0.230	111	70.0 to 130	0.661	20.0
BC05696	Lithium, Total	mg/L	-0.000019	0.0154	0.200	0.603	0.613	0.200	0.170 to 0.230	117	70.0 to 130	1.64	20.0
BC05696	Magnesium, Dissolved	mg/L	-0.00632	0.0462	5.00	25.8	25.6	5.13	4.25 to 5.75	98.0	70.0 to 130	0.778	20.0
BC05696	Magnesium, Total	mg/L	0.00236	0.0462	5.00	26.1	26.2	5.08	4.25 to 5.75	110	70.0 to 130	0.382	20.0
BC05696	Manganese, Dissolved	mg/L	-0.0000044	0.0002	0.100	0.153	0.151	0.105	0.0850 to 0.115	97.7	70.0 to 130	1.32	20.0
BC05696	Manganese, Total	mg/L	0.0000104	0.0002	0.100	0.157	0.155	0.104	0.0850 to 0.115	99.2	70.0 to 130	1.28	20.0
BC05696	Mercury, Total by CVAA	mg/L	0.00000	0.000500	0.004	0.00394	0.00396	0.004	0.00340 to 0.00460	98.5	70.0 to 130	0.506	20.0
BC05696	Molybdenum, Dissolved	mg/L	0.0000088	0.0002	0.100	0.106	0.104	0.0983	0.0850 to 0.115	101	70.0 to 130	1.90	20.0
BC05696	Molybdenum, Total	mg/L	0.0000087	0.0002	0.100	0.108	0.107	0.0999	0.0850 to 0.115	99.0	70.0 to 130	0.930	20.0
BC05696	Potassium, Dissolved	mg/L	0.00485	0.367	10.0	23.9	23.4	10.6	8.50 to 11.5	102	70.0 to 130	2.11	20.0
BC05696	Potassium, Total	mg/L	0.00632	0.367	10.0	26.3	25.8	10.6	8.50 to 11.5	101	70.0 to 130	1.92	20.0
BC05696	Selenium, Dissolved	mg/L	0.000179	0.00100	0.100	0.103	0.101	0.105	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BC05696	Selenium, Total	mg/L	-0.0000082	0.00100	0.100	0.101	0.100	0.103	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC05696	Silicon, Dissolved	mg/L	-0.000753	0.0440	1.00	5.47	5.39	0.991	0.850 to 1.15	96.0	70.0 to 130	1.47	20.0
BC05696	Silicon, Total	mg/L	-0.000805	0.0440	1.00	5.63	5.62	0.999	0.850 to 1.15	107	70.0 to 130	0.178	20.0
BC05696	Sodium, Dissolved	mg/L	0.0216	0.0660	5.00	1880	1740	5.04	4.25 to 5.75	4000	70.0 to 130	7.73	20.0
BC05696	Sodium, Total	mg/L	0.0218	0.0660	5.00	1710	1680	5.05	4.25 to 5.75	-1000	70.0 to 130	1.77	20.0
BC05696	Sulfate	mg/L	-0.0131	2.0	160	229	237	19.8	18.0 to 22.0	102	80.0 to 120	3.43	20.0
BC05696	Thallium, Dissolved	mg/L	0.0000022	0.000147	0.100	0.101	0.100	0.102	0.0850 to 0.115	101	70.0 to 130	0.995	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/17/22 11:13  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-22D

**Laboratory ID Number:** BC05696

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05696	Thallium, Total	mg/L	-0.000002	0.000147	0.100	0.102	0.103	0.102	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC05696	Total Organic Carbon	mg/L	0.330	1.00	10.0	10.3	10.3	9.91		103	80.0 to 120	0.00	20.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

## Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 3/17/22 11:13  
**Customer ID:**  
**Delivery Date:** 3/17/22 14:19

**Description:** Miller Ash Pond - MW-22D

**Laboratory ID Number:** BC05696

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC05696	Alkalinity, Total as CaCO3	mg/L					112	50.8	45.0 to 55.0			2.71	10.0
BC05696	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	1.98	-0.004	1.92	1.80 to 2.20	99.0	90.0 to 110	0.00	15.0
BC05696	Solids, Dissolved	mg/L	1.00	25.0			4400	50.0	40.0 to 60.0			4.44	10.0

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

# Definitions

**Project Number:** WMWMILAP\_1354

Abbreviation	Description
DF	Dilution Factor
LCS	Lab Control Sample
LFM	Lab Fortified Matrix
MB	Method Blank
MDL	Method Detection Limit; minimum concentration of an analyte that can be determined with 99% confidence that the concentration is greater than zero.
MS	Matrix Spike
MSD	Matrix Spike Duplicate
Prec	Precision (% RPD)
Q	Qualifier; comment used to note deviations or additional information associated with analytical results.
QC	Quality Control
Rec	Recovery of Matrix Spike
RL	Reporting Limit; lowest concentration at which an analyte can be quantitatively measured.
Vio Spec	Violation Specification; regulatory limit which has been exceeded by the sample analyzed.

Qualifier	Description
A	Bicarbonate alkalinity, carbonate alkalinity, hydroxide alkalinity, free carbon dioxide, and/or total carbon dioxide calculations are estimates due to pH>10SU and/or TDS>500mg/L.
FA	Field results were reviewed by the Water Field Group. Refer to APC Field Case Narrative.
J	Reported value is an estimate because concentration is less than reporting limit.
R	Matrix spike recovery and/or matrix spike duplicate recovery is outside of specification limit.
RA	Matrix spike is invalid due to sample concentration.
U	Compound was analyzed, but not detected.



# Chain of Custody

## Groundwater

APC General Testing Laboratory

Field Complete  
 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	500 mL	7	Alkalinity	250 mL
	2	Dissolved Metals	500 mL	4	Nitrate/Nitrite; TOC	250 mL	6	Anions	250 mL	8	N/A	N/A

Comments: N/N, TOC pH<2. LBM 3/10/22

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-35H	03/08/2022	07:57	7	Groundwater		BC05057
MW-17H	03/08/2022	09:14	7	Groundwater		BC05058
MW-18H	03/08/2022	10:38	7	Groundwater		BC05059
MW-7SR	03/08/2022	12:48	7	Groundwater		BC05060
MW-7DR	03/08/2022	13:46	7	Groundwater		BC05061
FB-1	03/08/2022	14:35	5	Field Blank		BC05062
MW-32H	03/09/2022	08:42	7	Groundwater		BC05063
MW-20HS	03/09/2022	10:30	7	Groundwater		BC05064
MW-20HS dup	03/09/2022	10:30	7	Sample Duplicate		BC05065
MW-20H	03/09/2022	12:23	7	Groundwater		BC05066

Relinquished By	Received By	Date/Time
<i>M. Gentry</i>	<i>Lauren M. Dyer</i>	03/10/2022 09:12

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-20010-2-2	
Sample Event	1354	
Cooler Temp	0.5 degrees C & 0.1 degrees C	
Thermometer ID	5408-27568-2-2	
pH Strip ID	9772-56581-100-3	

Bottles/Pre-Preserved Bottles are provided by the GTL





# Chain of Custody

## Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To Requested By Location	Dustin Brooks, Greg Dyer	
	Collector		TJ Daugherty	Greg Dyer
				Miller Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS	500 mL	7	Alkalinity	250 mL
	2	Dissolved Metals	500 mL	4	Nitrates/Nitrates, TOC	250 mL	6	Anions	250 mL	8	N/A	N/A

Comments: N/N, TOC pH<2. LBM 3/10/22

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-9SR	03/08/2022	09:39	7	Groundwater		BC05067
MW-9DR	03/08/2022	11:00	7	Groundwater		BC05068
MW-16	03/08/2022	13:25	7	Groundwater		BC05069
MW-15	03/09/2022	10:09	7	Groundwater		BC05070
MW-15 Dup	03/09/2022	10:09	7	Sample Duplicate		BC05071
MW-14R	03/09/2022	11:38	7	Groundwater		BC05072
MW-13DR	03/09/2022	13:27	7	Groundwater		BC05073
MW-13SR	03/09/2022	15:10	7	Groundwater		BC05074

Relinquished By	Received By	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	03/10/2022 09:13

SmarTroll ID	7586-41445-5-4	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>	
Turbidity ID	4677-23342-4-1		
Sample Event	1354		
		Cooler Temp	0.0 degrees C
		Thermometer ID	5408-27568-2-2
		pH Strip ID	9772-56581-100-3

Bottles/Pre-Preserved Bottles are provided by the GTL



# Chain of Custody Groundwater

APC General Testing Laboratory

 Field Complete  
 Lab Complete

 Outside Lab

 Lab ETA **03/10/2022 08:00**

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	500 mL	7	Alkalinity	250 mL
	2	Dissolved Metals	500 mL	4	Nitrite/Nitrate; TOC	250 mL	6	Anions	250 mL	8	N/A	N/A

Comments	Correcting dates to 03/09/22 per AWG. N/N, TOC pH<2. LBM 3/10/22
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Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-19HA	03/09/2022	11:43	7	Groundwater		BC05075
FB-3	03/09/2022	12:20	5	Field Blank		BC05076
MW-34H	03/09/2022	14:15	7	Groundwater		BC05077

Relinquished By	Received By	Date/Time
<i>Anthony Goggins</i>	<i>Greg Dyer</i>	03/10/2022 09:09

SmarTroll ID	7586-41442-5-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	4677-23343-4-2	
Sample Event	1354	
Cooler Temp	0.0 degrees C	
Thermometer ID	5408-27568-2-2	
pH Strip ID	9772-56581-100-3	

Bottles/Pre-Preserved Bottles are provided by the GTL



# Chain of Custody

## Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA **03/15/2022 13:25**

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 500 mL	7 Alkalinity 250 mL
	2 Dissolved Metals 500 mL	4 Nitrite/Nitrate; TOC 250 mL	6 Anions 250 mL	8 N/A N/A

Comments Nitrate/Nitrite and TOC bottles pH<2. Correcting bottle count to 7. LBM 3/15/22

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-1	03/15/2022	11:10	7	Groundwater		BC05470

Relinquished By	Received By	Date/Time
<i>Anthony Goggins</i>	<i>Kevin Meloy</i>	03/15/2022 13:40

SmarTroll ID	7586-41442-5-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	4677-23343-4-2	
Sample Event	1354	
	Cooler Temp	0.0 degrees C
	Thermometer ID	5408-27568-2-2
	pH Strip ID	9772-56581-100-3

Bottles/Pre-Preserved Bottles are provided by the GTL



# Chain of Custody

## Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: TJ Daugherty		Requested By
		Location	Miller Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS	500 mL	7	Alkalinity	250 mL
	2	Dissolved Metals	500 mL	4	Nitrates/Nitrites, TOC	250 mL	6	Anions	250 mL	8	N/A	N/A

Comments: Nitrate/Nitrite and TOC bottles pH<2. LBM 3/15/22

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-27HR	03/14/2022	12:18	7	Groundwater		BC05466
MW-28H	03/14/2022	14:40	7	Groundwater		BC05467
FB-2	03/14/2022	15:45	5	Field Blank		BC05468
MW-23	03/15/2022	09:45	7	Groundwater		BC05469

Relinquished By	Received By	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	03/15/2022 13:42

SmarTroll ID	7586-41445-5-4	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	4677-23342-4-1	
Sample Event	1354	
Cooler Temp	0.7 degrees C	
Thermometer ID	5408-27568-2-2	
pH Strip ID	9772-56581-100-3	

Bottles/Pre-Preserved Bottles are provided by the GTL



# Chain of Custody

## Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: Dallas Gentry		Requested By: Greg Dyer
		Location	Miller Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS	500 mL	7	Alkalinity	250 mL
	2	Dissolved Metals	500 mL	4	Nitrate/Nitrite; TOC	250 mL	6	Anions	250 mL	8	N/A	N/A

Comments: Nitrate/Nitrite and TOC bottles pH<2. LBM 3/15/22

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-33H	03/14/2022	11:54	7	Groundwater		BC05459
MW-5	03/14/2022	13:05	7	Groundwater		BC05460
MW-5 dup	03/14/2022	13:05	7	Sample Duplicate		BC05461
PZ-5	03/14/2022	14:58	7	Groundwater		BC05462
MW-4	03/15/2022	08:49	7	Groundwater		BC05463
MW-4V	03/15/2022	09:38	7	Groundwater		BC05464
MW-4V dup	03/15/2022	09:38	7	Sample Duplicate		BC05465

Relinquished By	Received By	Date/Time
<i>Mel Dyer</i>	<i>Laura Kelly</i>	03/15/2022 13:44

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-20010-2-2	
Sample Event	1354	
Cooler Temp	0.6 degrees C	
Thermometer ID	5408-27568-2-2	
pH Strip ID	9772-56581-100-3	

Bottles/Pre-Preserved Bottles are provided by the GTL



# Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine		Results To	Dustin Brooks, Greg Dyer	
	Collector	Dallas Gentry		Requested By	Greg Dyer
			Location	Miller Ash Pond	

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS	500 mL	7	Alkalinity	250 mL
	2	Dissolved Metals	500 mL	4	Nitrate/Nitrite; TOC	250 mL	6	Anions	250 mL	8	N/A	N/A

Comments: Nitrate/Nitrite & TOC bottles pH<2. LBM 3/17/22

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-6	03/16/2022	09:05	7	Groundwater		BC05676
MW-6V	03/16/2022	10:49	7	Groundwater		BC05677
MW-3S	03/16/2022	12:42	7	Groundwater		BC05678
FB-4	03/16/2022	13:25	5	Field Blank		BC05679
MW-3D	03/16/2022	14:00	7	Groundwater		BC05680
MW-2	03/16/2022	15:43	7	Groundwater		BC05681
MW-10	03/17/2022	07:56	7	Groundwater		BC05682
MW-21	03/17/2022	09:28	7	Groundwater		BC05683
MW-37H	03/17/2022	10:49	7	Groundwater		BC05684

Relinquished By	Received By	Date/Time
<i>Dallas Gentry</i>	<i>Laura Webb</i>	03/17/2022 13:24

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>		
Turbidity ID	3901-20010-2-2		Cooler Temp	0.2 degrees C
Sample Event	1354		Thermometer ID	5408-27568-2-2
			pH Strip ID	9772-56581-100-3

Bottles/Pre-Preserved Bottles are provided by the GTL



# Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA **03/17/2022 13:03**

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	500 mL	7	Alkalinity	250 mL
	2	Dissolved Metals	500 mL	4	Nitrite/Nitrate; TOC	250 mL	6	Anions	250 mL	8	N/A	N/A

Comments: Matching FB-5 time to bottles per AWG. Nitrate/Nitrite & TOC bottles pH<2. LBM 3/17/22

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-30H	03/16/2022	11:10	7	Groundwater		BC05685
MW-11	03/16/2022	13:27	7	Groundwater		BC05686
FB-5	03/16/2022	15:50	5	Field Blank		BC05687
MW-36HR	03/16/2022	16:57	7	Groundwater		BC05688
MW-31H	03/16/2022	19:27	7	Groundwater		BC05689
MW-12	03/17/2022	09:40	7	Groundwater		BC05690
EB-1	03/17/2022	10:40	5	Equipment Blank		BC05691

Relinquished By	Received By	Date/Time
<i>Anthony Goggins</i>	<i>Greg Dyer</i>	03/17/2022 13:28

SmarTroll ID	7586-41442-5-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	4677-23343-4-2	
Sample Event	1354	
Cooler Temp	0.0 degrees C	
Thermometer ID	5408-27568-2-2	
pH Strip ID	9772-56581-100-3	

Bottles/Pre-Preserved Bottles are provided by the GTL



# Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Collector	TJ Daugherty	Requested By	Greg Dyer
		Location	Miller Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS	500 mL	7	Alkalinity	250 mL
	2	Dissolved Metals	500 mL	4	Nitrates/Nitrites, TOC	250 mL	6	Anions	250 mL	8	N/A	N/A

Comments: Nitrate/Nitrite & TOC bottles pH<2. LBM 3/17/22

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-23A	03/16/2022	11:00	7	Groundwater		BC05692
MW-22S	03/16/2022	13:33	7	Groundwater		BC05693
MW-22S Dup	03/16/2022	13:33	7	Sample Duplicate		BC05694
MW-22I	03/16/2022	14:58	7	Groundwater		BC05695
MW-22D	03/17/2022	11:13	7	Groundwater		BC05696

Relinquished By	Received By	Date/Time
<i>HAB</i>	<i>Laura M. Dyer</i>	03/17/2022 13:48

SmarTroll ID	7586-41445-5-4	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	4677-23342-4-1	
Sample Event	1354	
Cooler Temp	0.3 degrees C	
Thermometer ID	5408-27568-2-2	
pH Strip ID	9772-56581-100-3	

Bottles/Pre-Preserved Bottles are provided by the GTL





# Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete

Outside Lab

Lab Complete

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: 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 Sulfide	250 mL	4 N/A	N/A	6 N/A	N/A	8 N/A	N/A

Comments: Radium MS/MSD collected at MW-35H.  
Sulfide pH>9. LBM 3/10/22

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-35H	03/08/2022	07:57	4	Groundwater		BC05078
MW-17H	03/08/2022	09:14	2	Groundwater		BC05079
MW-18H	03/08/2022	10:38	2	Groundwater		BC05080
MW-7SR	03/08/2022	12:48	2	Groundwater		BC05081
MW-7DR	03/08/2022	13:46	2	Groundwater		BC05082
FB-1	03/08/2022	14:35	2	Field Blank		BC05083
MW-32H	03/09/2022	08:42	2	Groundwater		BC05084
MW-20HS	03/09/2022	10:30	2	Groundwater		BC05085
MW-20HS dup	03/09/2022	10:30	2	Sample Duplicate		BC05086
MW-20H	03/09/2022	12:23	2	Groundwater		BC05087

Relinquished By	Received By	Date/Time
<i>M. Gentry</i>	<i>Laura M. Dyer</i>	03/10/2022 09:12

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-20010-2-2	
Sample Event	1354	
Cooler Temp	0.5 degrees C & 0.1 degrees C	
Thermometer ID	5408-27568-2-2	
pH Strip ID	9772-56581-100-3	

Bottles/Pre-Preserved Bottles are provided by the GTL



# Chain of Custody Groundwater

APC General Testing Laboratory

 Field Complete  
 Lab Complete

 Outside Lab

 Lab ETA 

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: TJ Daugherty		Requested By
		Location	Miller Ash Pond

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	Sulfide	250 mL	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments	Radium MS/MSD collected at MW-16. Sulfide pH>9. LBM 3/10/22
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Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-9SR	03/08/2022	09:39	2	Groundwater		BC05088
MW-9DR	03/08/2022	11:00	2	Groundwater		BC05089
MW-16	03/08/2022	13:25	4	Groundwater		BC05090
MW-15	03/09/2022	10:09	2	Groundwater		BC05091
MW-15 Dup	03/09/2022	10:09	2	Sample Duplicate		BC05092
MW-14R	03/09/2022	11:38	2	Groundwater		BC05093
MW-13DR	03/09/2022	13:27	2	Groundwater		BC05094
MW-13SR	03/09/2022	15:10	2	Groundwater		BC05095

Relinquished By	Received By	Date/Time
<i>HAB</i>	<i>Laura Wiley</i>	03/10/2022 09:13

SmarTroll ID	7586-41445-5-4	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>	
Turbidity ID	4677-23342-4-1		
Sample Event	1354		
		Cooler Temp	0.0 degrees C
		Thermometer ID	5408-27568-2-2
		pH Strip ID	9772-56581-100-3

Bottles/Pre-Preserved Bottles are provided by the GTL



# Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA 03/10/2022 08:00

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	Sulfide	250 mL	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments	Correcting dates to 03/09/22 per AWG. Sulfide pH>9. LBM 3/10/22
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Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-19HA	03/09/2022	11:43	2	Groundwater		BC05096
FB-3	03/09/2022	12:20	2	Field Blank		BC05097
MW-34H	03/09/2022	14:15	2	Groundwater		BC05098

Relinquished By	Received By	Date/Time
<i>Anthony Goggins</i>	<i>Greg Dyer</i>	03/10/2022 09:09

SmarTroll ID	7586-41442-5-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	4677-23343-4-2	Cooler Temp
Sample Event	1354	0.0 degrees C
		Thermometer ID
		5408-27568-2-2
		pH Strip ID
		9772-56581-100-3

Bottles/Pre-Preserved Bottles are provided by the GTL



# Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA 03/15/2022 13:25

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	Sulfide	250 mL	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments Sulfide bottles pH>9. LBM 3/15/22

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-1	03/15/2022	11:10	2	Groundwater		BC05482

Relinquished By	Received By	Date/Time
		03/15/2022 13:41

SmarTroll ID	<span style="border: 1px solid black; padding: 2px;">7586-41442-5-1</span>	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	<span style="border: 1px solid black; padding: 2px;">4677-23343-4-2</span>	
Sample Event	<span style="border: 1px solid black; padding: 2px;">1354</span>	
Cooler Temp	<span style="border: 1px solid black; padding: 2px;">0.0 degrees C</span>	
Thermometer ID	<span style="border: 1px solid black; padding: 2px;">5408-27568-2-2</span>	
pH Strip ID	<span style="border: 1px solid black; padding: 2px;">9772-56581-100-3</span>	



# Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete

Outside Lab

Lab Complete

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: Dallas Gentry		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	Sulfide	250 mL	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments: Sulfide bottles pH>9. LBM 3/15/22

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-33H	03/14/2022	11:54	2	Groundwater		BC05471
MW-5	03/14/2022	13:05	2	Groundwater		BC05472
MW-5 dup	03/14/2022	13:05	2	Sample Duplicate		BC05473
PZ-5	03/14/2022	14:58	2	Groundwater		BC05474
MW-4	03/15/2022	08:49	2	Groundwater		BC05475
MW-4V	03/15/2022	09:38	2	Groundwater		BC05476
MW-4V dup	03/15/2022	09:38	2	Sample Duplicate		BC05477

Relinquished By	Received By	Date/Time
		03/15/2022 13:43

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-20010-2-2	
Sample Event	1354	
Cooler Temp	0.6 degrees C	
Thermometer ID	5408-27568-2-2	
pH Strip ID	9772-56581-100-3	

Bottles/Pre-Preserved Bottles are provided by the GTL



# Chain of Custody

## Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: TJ Daugherty		Requested By
		Location	Miller Ash Pond

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	Sulfide	250 mL	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments: Sulfide bottles pH>9. LBM 3/15/22

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-27HR	03/14/2022	12:18	2	Groundwater		BC05478
MW-28H	03/14/2022	14:40	2	Groundwater		BC05479
FB-2	03/14/2022	15:45	2	Field Blank		BC05480
MW-23	03/15/2022	09:45	2	Groundwater		BC05481

Relinquished By	Received By	Date/Time
<i>HAB</i>	<i>Raven M...</i>	03/15/2022 13:42

SmarTroll ID	7586-41445-5-4	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	4677-23342-4-1	
Sample Event	1354	
	Cooler Temp	0.7 degrees C
	Thermometer ID	5408-27568-2-2
	pH Strip ID	9772-56581-100-3

Bottles/Pre-Preserved Bottles are provided by the GTL



# Chain of Custody Groundwater

APC General Testing Laboratory

 Field Complete  
 Lab Complete

 Outside Lab

 Lab ETA 

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Collector	Dallas Gentry	Requested By	Greg Dyer
		Location	Miller Ash Pond

Bottles	1 Radium	1 L	3 N/A	N/A	5 N/A	N/A	7 N/A	N/A
	2 Sulfide	250 mL	4 N/A	N/A	6 N/A	N/A	8 N/A	N/A

Comments: Radium MS/MSD collected at MW-6  
 Sulfide bottles pH>9. LBM 3/17/22

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-6	03/16/2022	09:05	4	Groundwater		BC05697
MW-6V	03/16/2022	10:49	2	Groundwater		BC05698
MW-3S	03/16/2022	12:42	2	Groundwater		BC05699
FB-4	03/16/2022	13:25	2	Field Blank		BC05700
MW-3D	03/16/2022	14:00	2	Groundwater		BC05701
MW-2	03/16/2022	15:43	2	Groundwater		BC05702
MW-10	03/17/2022	07:56	2	Groundwater		BC05703
MW-21	03/17/2022	09:28	2	Groundwater		BC05704
MW-37H	03/17/2022	10:49	2	Groundwater		BC05705

Relinquished By	Received By	Date/Time
		03/17/2022 13:23

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2	<input checked="" type="checkbox"/>
Turbidity ID	3901-20010-2-2	Cooler Temp	0.2 degrees C
Sample Event	1354	Thermometer ID	5408-27568-2-2
		pH Strip ID	9772-56581-100-3

Bottles/Pre-Preserved Bottles are provided by the GTL



# Chain of Custody

## Groundwater

APC General Testing Laboratory

 Field Complete  
 Lab Complete

 Outside Lab

 Lab ETA **03/17/2022 13:03**

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 Sulfide	250 mL	4 N/A	N/A	6 N/A	N/A	8 N/A	N/A

Comments	Matching FB-5 time to bottles per AWG. Sulfide bottles pH>9. LBM 3/17/22
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Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-30H	03/16/2022	11:10	2	Groundwater		BC05706
MW-11	03/16/2022	13:27	2	Groundwater		BC05707
FB-5	03/16/2022	15:50	2	Field Blank		BC05708
MW-36HR	03/16/2022	16:57	2	Groundwater		BC05709
MW-31H	03/16/2022	19:27	2	Groundwater		BC05710
MW-12	03/17/2022	09:40	2	Groundwater		BC05711
EB-1	03/17/2022	10:40	2	Equipment Blank		BC05712

Relinquished By <i>Anthony Goggins</i>	Received By <i>Laura M. Dyer</i>	Date/Time 03/17/2022 13:27

SmarTroll ID	7586-41442-5-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	4677-23343-4-2	
Sample Event	1354	
Cooler Temp	0.0 degrees C	
Thermometer ID	5408-27568-2-2	
pH Strip ID	9772-56581-100-3	





# Chain of Custody

## Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: TJ Daugherty		Requested By
		Location	Miller Ash Pond

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	Sulfide	250 mL	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments: Sulfide bottles pH>9. LBM 3/17/22

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-23A	03/16/2022	11:00	2	Groundwater		BC05713
MW-22S	03/16/2022	13:33	2	Groundwater		BC05714
MW-22S Dup	03/16/2022	13:33	2	Sample Duplicate		BC05715
MW-22I	03/16/2022	14:58	2	Groundwater		BC05716
MW-22D	03/17/2022	11:13	2	Groundwater		BC05717

Relinquished By	Received By	Date/Time
		03/17/2022 13:48

SmarTroll ID	7586-41445-5-4	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>	
Turbidity ID	4677-23342-4-1		
Sample Event	1354		
		Cooler Temp	0.3 degrees C
		Thermometer ID	5408-27568-2-2
		pH Strip ID	9772-56581-100-3

Bottles/Pre-Preserved Bottles are provided by the GTL

April 01, 2022

Laura Midkiff  
Alabama Power  
744 Highway 87  
GSC 8  
Calera, AL 35040

RE: Project: WMWMILAP\_1354  
Pace Project No.: 20237334

Dear Laura Midkiff:

Enclosed are the analytical results for sample(s) received by the laboratory between March 11, 2022 and March 18, 2022. 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 - New Orleans

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

Sincerely,



Karen Brown  
karen.brown@pacelabs.com  
(504)469-0333  
Project Manager

Enclosures

cc: Renee Jernigan, Alabama Power  
Trinity B. Williams, Alabama Power



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: WMWMILAP\_1354  
Pace Project No.: 20237334

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### **Pace Analytical Services New Orleans**

Florida Department of Health (NELAC): E87595  
Illinois Environmental Protection Agency: 0025721  
Kansas Department of Health and Environment (NELAC):  
E-10266  
Louisiana Dept. of Environmental Quality (NELAC/LELAP):  
02006

Texas Commission on Env. Quality (NELAC):  
T104704405-09-TX  
U.S. Dept. of Agriculture Foreign Soil Import: P330-10-  
00119

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: WMWMILAP\_1354

Pace Project No.: 20237334

Lab ID	Sample ID	Matrix	Date Collected	Date Received
20237334001	BC05078 MW-35H	Water	03/08/22 07:57	03/11/22 09:35
20237334002	BC05079 MW-17H	Water	03/08/22 09:14	03/11/22 09:35
20237334003	BC05080 MW-18H	Water	03/08/22 10:38	03/11/22 09:35
20237334004	BC05081 MW-7SR	Water	03/08/22 12:48	03/11/22 09:35
20237334005	BC05082 MW-7DR	Water	03/08/22 13:46	03/11/22 09:35
20237334006	BC05083 FB-1	Water	03/08/22 14:35	03/11/22 09:35
20237334007	BC05084 MW-32H	Water	03/09/22 08:42	03/11/22 09:35
20237334008	BC05085 MW-20HS	Water	03/09/22 10:30	03/11/22 09:35
20237334009	BC05086 MW-20HS DUP	Water	03/09/22 10:30	03/11/22 09:35
20237334010	BC05087 MW-20H	Water	03/09/22 12:23	03/11/22 09:35
20237334011	BC05088 MW-9SR	Water	03/08/22 09:39	03/11/22 09:35
20237334012	BC05089 MW-9DR	Water	03/08/22 11:00	03/11/22 09:35
20237334013	BC05090 MW-16	Water	03/08/22 13:25	03/11/22 09:35
20237334014	BC05091 MW-15	Water	03/09/22 10:09	03/11/22 09:35
20237334015	BC05092 MW-15 DUP	Water	03/09/22 10:09	03/11/22 09:35
20237334016	BC05093 MW-14R	Water	03/09/22 11:38	03/11/22 09:35
20237334017	BC05094 MW-13DR	Water	03/09/22 13:27	03/11/22 09:35
20237334018	BC05095 MW-13SR	Water	03/09/22 15:10	03/11/22 09:35
20237334019	BC05096 MW-19HA	Water	03/09/22 11:43	03/11/22 09:35
20237334020	BC05097 FB-3	Water	03/09/22 12:20	03/11/22 09:35
20237334021	BC05098 MW-34H	Water	03/09/22 14:15	03/11/22 09:35
20237334022	BC05471 MW-33H	Water	03/14/22 11:54	03/16/22 09:55
20237334023	BC05472 MW-5	Water	03/14/22 13:05	03/16/22 09:55
20237334024	BC05473 MW-5 DUP	Water	03/14/22 13:05	03/16/22 09:55
20237334025	BC05474 PZ-5	Water	03/14/22 14:58	03/16/22 09:55
20237334026	BC05475 MW-4	Water	03/15/22 08:49	03/16/22 09:55
20237334027	BC05476 MW-4V	Water	03/15/22 09:38	03/16/22 09:55
20237334028	BC05477 MW-4V DUP	Water	03/15/22 09:38	03/16/22 09:55
20237334029	BC05478 MW-27HR	Water	03/14/22 12:18	03/16/22 09:55
20237334030	BC05479 MW-28H	Water	03/14/22 14:40	03/16/22 09:55
20237334031	BC05480 FB-2	Water	03/14/22 15:45	03/16/22 09:55
20237334032	BC05481 MW-23	Water	03/15/22 09:45	03/16/22 09:55
20237334033	BC05482 MW-1	Water	03/15/22 11:10	03/16/22 09:55
20237334034	BC05697 MW-6	Water	03/16/22 09:05	03/18/22 09:45
20237334035	BC05698 MW-6V	Water	03/16/22 10:49	03/18/22 09:45
20237334036	BC05699 MW-3S	Water	03/16/22 12:42	03/18/22 09:45
20237334037	BC05700 FB-4	Water	03/16/22 13:25	03/18/22 09:45

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: WMWMILAP\_1354

Pace Project No.: 20237334

Lab ID	Sample ID	Matrix	Date Collected	Date Received
20237334038	BC05701 MW-3D	Water	03/16/22 14:00	03/18/22 09:45
20237334039	BC05702 MW-2	Water	03/16/22 15:43	03/18/22 09:45
20237334040	BC05703 MW-10	Water	03/17/22 07:56	03/18/22 09:45
20237334041	BC05704 MW-21	Water	03/17/22 09:28	03/18/22 09:45
20237334042	BC05705 MW-37H	Water	03/17/22 10:49	03/18/22 09:45
20237334043	BC05706 MW-30H	Water	03/16/22 11:10	03/18/22 09:45
20237334044	BC05707 MW-11	Water	03/16/22 13:27	03/18/22 09:45
20237334045	BC05708 FB-5	Water	03/16/22 15:50	03/18/22 09:45
20237334046	BC05709 MW-36HR	Water	03/16/22 16:57	03/18/22 09:45
20237334047	BC05710 MW-31H	Water	03/16/22 19:27	03/18/22 09:45
20237334048	BC05711 MW-12	Water	03/17/22 09:40	03/18/22 09:45
20237334049	BC05712 EB-1	Water	03/17/22 10:40	03/18/22 09:45
20237334050	BC05713 MW-23A	Water	03/16/22 11:00	03/18/22 09:45
20237334051	BC05714 MW-22S	Water	03/16/22 13:33	03/18/22 09:45
20237334052	BC05715 MW-22S DUP	Water	03/16/22 13:33	03/18/22 09:45
20237334053	BC05716 MW-22I	Water	03/16/22 14:58	03/18/22 09:45
20237334054	BC05717 MW-22D	Water	03/17/22 11:13	03/18/22 09:45

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: WMWMILAP\_1354

Pace Project No.: 20237334

Lab ID	Sample ID	Method	Analysts	Analytes Reported
20237334001	BC05078 MW-35H	SM 4500-S-2 D	RVJ	1
20237334002	BC05079 MW-17H	SM 4500-S-2 D	RVJ	1
20237334003	BC05080 MW-18H	SM 4500-S-2 D	RVJ	1
20237334004	BC05081 MW-7SR	SM 4500-S-2 D	RVJ	1
20237334005	BC05082 MW-7DR	SM 4500-S-2 D	RVJ	1
20237334006	BC05083 FB-1	SM 4500-S-2 D	RVJ	1
20237334007	BC05084 MW-32H	SM 4500-S-2 D	RVJ	1
20237334008	BC05085 MW-20HS	SM 4500-S-2 D	RVJ	1
20237334009	BC05086 MW-20HS DUP	SM 4500-S-2 D	RVJ	1
20237334010	BC05087 MW-20H	SM 4500-S-2 D	RVJ	1
20237334011	BC05088 MW-9SR	SM 4500-S-2 D	RVJ	1
20237334012	BC05089 MW-9DR	SM 4500-S-2 D	RVJ	1
20237334013	BC05090 MW-16	SM 4500-S-2 D	RVJ	1
20237334014	BC05091 MW-15	SM 4500-S-2 D	RVJ	1
20237334015	BC05092 MW-15 DUP	SM 4500-S-2 D	RVJ	1
20237334016	BC05093 MW-14R	SM 4500-S-2 D	RVJ	1
20237334017	BC05094 MW-13DR	SM 4500-S-2 D	RVJ	1
20237334018	BC05095 MW-13SR	SM 4500-S-2 D	RVJ	1
20237334019	BC05096 MW-19HA	SM 4500-S-2 D	RVJ	1
20237334020	BC05097 FB-3	SM 4500-S-2 D	RVJ	1
20237334021	BC05098 MW-34H	SM 4500-S-2 D	RVJ	1
20237334022	BC05471 MW-33H	SM 4500-S-2 D	DWR	1
20237334023	BC05472 MW-5	SM 4500-S-2 D	DWR	1
20237334024	BC05473 MW-5 DUP	SM 4500-S-2 D	DWR	1
20237334025	BC05474 PZ-5	SM 4500-S-2 D	DWR	1
20237334026	BC05475 MW-4	SM 4500-S-2 D	NTG	1
20237334027	BC05476 MW-4V	SM 4500-S-2 D	NTG	1
20237334028	BC05477 MW-4V DUP	SM 4500-S-2 D	NTG	1
20237334029	BC05478 MW-27HR	SM 4500-S-2 D	DWR	1
20237334030	BC05479 MW-28H	SM 4500-S-2 D	DWR	1
20237334031	BC05480 FB-2	SM 4500-S-2 D	DWR	1
20237334032	BC05481 MW-23	SM 4500-S-2 D	NTG	1
20237334033	BC05482 MW-1	SM 4500-S-2 D	NTG	1
20237334034	BC05697 MW-6	SM 4500-S-2 D	NTG	1
20237334035	BC05698 MW-6V	SM 4500-S-2 D	NTG	1
20237334036	BC05699 MW-3S	SM 4500-S-2 D	NTG	1
20237334037	BC05700 FB-4	SM 4500-S-2 D	NTG	1

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: WMWMILAP\_1354  
Pace Project No.: 20237334

Lab ID	Sample ID	Method	Analysts	Analytes Reported
20237334038	BC05701 MW-3D	SM 4500-S-2 D	NTG	1
20237334039	BC05702 MW-2	SM 4500-S-2 D	NTG	1
20237334040	BC05703 MW-10	SM 4500-S-2 D	RVJ	1
20237334041	BC05704 MW-21	SM 4500-S-2 D	RVJ	1
20237334042	BC05705 MW-37H	SM 4500-S-2 D	RVJ	1
20237334043	BC05706 MW-30H	SM 4500-S-2 D	RVJ	1
20237334044	BC05707 MW-11	SM 4500-S-2 D	RVJ	1
20237334045	BC05708 FB-5	SM 4500-S-2 D	RVJ	1
20237334046	BC05709 MW-36HR	SM 4500-S-2 D	RVJ	1
20237334047	BC05710 MW-31H	SM 4500-S-2 D	RVJ	1
20237334048	BC05711 MW-12	SM 4500-S-2 D	RVJ	1
20237334049	BC05712 EB-1	SM 4500-S-2 D	RVJ	1
20237334050	BC05713 MW-23A	SM 4500-S-2 D	RVJ	1
20237334051	BC05714 MW-22S	SM 4500-S-2 D	RVJ	1
20237334052	BC05715 MW-22S DUP	SM 4500-S-2 D	RVJ	1
20237334053	BC05716 MW-22I	SM 4500-S-2 D	RVJ	1
20237334054	BC05717 MW-22D	SM 4500-S-2 D	RVJ	1

PASI-N = Pace Analytical Services - New Orleans

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: WMWMILAP\_1354

Pace Project No.: 20237334

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**Method:** SM 4500-S-2 D

**Description:** 4500S2D Sulfide, Total

**Client:** Alabama Power

**Date:** April 01, 2022

### General Information:

54 samples were analyzed for SM 4500-S-2 D by Pace Analytical Services New Orleans. 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.

QC Batch: 250232

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 20237429001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1188728)
- Sulfide, Total

QC Batch: 250508

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 20237530002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1190402)
- Sulfide, Total

QC Batch: 250663

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 20238113001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1191029)
- Sulfide, Total

QC Batch: 250981

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 20238233001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1192580)
- Sulfide, Total

### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: WMWMILAP\_1354  
Pace Project No.: 20237334

---

**Method:** SM 4500-S-2 D  
**Description:** 4500S2D Sulfide, Total  
**Client:** Alabama Power  
**Date:** April 01, 2022

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: WMWMILAP\_1354

Pace Project No.: 20237334

---

**Sample: BC05078 MW-35H**      **Lab ID: 20237334001**      Collected: 03/08/22 07:57      Received: 03/11/22 09:35      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide, Total</b>									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/14/22 13:55	18496-25-8	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: WMWMILAP\_1354

Pace Project No.: 20237334

---

**Sample: BC05079 MW-17H**      **Lab ID: 20237334002**      Collected: 03/08/22 09:14      Received: 03/11/22 09:35      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide, Total</b>									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/14/22 13:56	18496-25-8	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: WMWMILAP\_1354

Pace Project No.: 20237334

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**Sample: BC05080 MW-18H**      **Lab ID: 20237334003**      Collected: 03/08/22 10:38      Received: 03/11/22 09:35      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide, Total</b>									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/14/22 13:57	18496-25-8	

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### ANALYTICAL RESULTS

Project: WMWMILAP\_1354

Pace Project No.: 20237334

**Sample: BC05081 MW-7SR**      **Lab ID: 20237334004**      Collected: 03/08/22 12:48      Received: 03/11/22 09:35      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide, Total</b>									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/14/22 13:57	18496-25-8	

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### ANALYTICAL RESULTS

Project: WMWMILAP\_1354

Pace Project No.: 20237334

**Sample: BC05082 MW-7DR**      **Lab ID: 20237334005**      Collected: 03/08/22 13:46      Received: 03/11/22 09:35      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide, Total</b>									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/14/22 13:58	18496-25-8	

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### ANALYTICAL RESULTS

Project: WMWMILAP\_1354  
Pace Project No.: 20237334

Sample: BC05083 FB-1      Lab ID: 20237334006      Collected: 03/08/22 14:35      Received: 03/11/22 09:35      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide, Total</b>									
Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/14/22 13:58	18496-25-8	

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### ANALYTICAL RESULTS

Project: WMWMILAP\_1354  
Pace Project No.: 20237334

Sample: BC05084 MW-32H      Lab ID: 20237334007      Collected: 03/09/22 08:42      Received: 03/11/22 09:35      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide, Total</b>									
Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/16/22 14:05	18496-25-8	

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### ANALYTICAL RESULTS

Project: WMWMILAP\_1354

Pace Project No.: 20237334

**Sample: BC05085 MW-20HS**      **Lab ID: 20237334008**      Collected: 03/09/22 10:30      Received: 03/11/22 09:35      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide, Total</b>									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/16/22 14:06	18496-25-8	

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### ANALYTICAL RESULTS

Project: WMWMILAP\_1354

Pace Project No.: 20237334

**Sample: BC05086 MW-20HS DUP**      **Lab ID: 20237334009**      Collected: 03/09/22 10:30      Received: 03/11/22 09:35      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide, Total</b>									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/16/22 14:06	18496-25-8	

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### ANALYTICAL RESULTS

Project: WMWMILAP\_1354

Pace Project No.: 20237334

**Sample: BC05087 MW-20H**      **Lab ID: 20237334010**      Collected: 03/09/22 12:23      Received: 03/11/22 09:35      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide, Total</b>									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/16/22 14:38	18496-25-8	

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### ANALYTICAL RESULTS

Project: WMWMILAP\_1354

Pace Project No.: 20237334

**Sample: BC05088 MW-9SR**      **Lab ID: 20237334011**      Collected: 03/08/22 09:39      Received: 03/11/22 09:35      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide, Total</b>									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/14/22 13:59	18496-25-8	

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### ANALYTICAL RESULTS

Project: WMWMILAP\_1354

Pace Project No.: 20237334

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**Sample: BC05089 MW-9DR**      **Lab ID: 20237334012**      Collected: 03/08/22 11:00      Received: 03/11/22 09:35      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide, Total</b>									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/14/22 14:01	18496-25-8	

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### ANALYTICAL RESULTS

Project: WMWMILAP\_1354

Pace Project No.: 20237334

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**Sample: BC05090 MW-16**      **Lab ID: 20237334013**      Collected: 03/08/22 13:25      Received: 03/11/22 09:35      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide, Total</b>									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/14/22 14:01	18496-25-8	

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### ANALYTICAL RESULTS

Project: WMWMILAP\_1354

Pace Project No.: 20237334

Sample: BC05091 MW-15		Lab ID: 20237334014		Collected: 03/09/22 10:09	Received: 03/11/22 09:35	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide, Total</b>		Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans							
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/16/22 14:39	18496-25-8	

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### ANALYTICAL RESULTS

Project: WMWMILAP\_1354

Pace Project No.: 20237334

**Sample: BC05092 MW-15 DUP**      **Lab ID: 20237334015**      Collected: 03/09/22 10:09      Received: 03/11/22 09:35      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide, Total</b>									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/16/22 14:39	18496-25-8	

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### ANALYTICAL RESULTS

Project: WMWMILAP\_1354

Pace Project No.: 20237334

**Sample: BC05093 MW-14R**      **Lab ID: 20237334016**      Collected: 03/09/22 11:38      Received: 03/11/22 09:35      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide, Total</b>									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/16/22 14:40	18496-25-8	

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## ANALYTICAL RESULTS

Project: WMWMILAP\_1354

Pace Project No.: 20237334

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**Sample: BC05094 MW-13DR**      **Lab ID: 20237334017**      Collected: 03/09/22 13:27      Received: 03/11/22 09:35      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide, Total</b>									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	<b>0.11</b>	mg/L	0.020	0.012	1		03/16/22 14:41	18496-25-8	

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### ANALYTICAL RESULTS

Project: WMWMILAP\_1354

Pace Project No.: 20237334

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**Sample: BC05095 MW-13SR**      **Lab ID: 20237334018**      Collected: 03/09/22 15:10      Received: 03/11/22 09:35      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide, Total</b>									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/16/22 14:41	18496-25-8	

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### ANALYTICAL RESULTS

Project: WMWMILAP\_1354  
Pace Project No.: 20237334

Sample: BC05096 MW-19HA      Lab ID: 20237334019      Collected: 03/09/22 11:43      Received: 03/11/22 09:35      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide, Total</b>									
Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	<b>10.4</b>	mg/L	0.50	0.30	25		03/16/22 14:43	18496-25-8	

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### ANALYTICAL RESULTS

Project: WMWMILAP\_1354

Pace Project No.: 20237334

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**Sample: BC05097 FB-3**      **Lab ID: 20237334020**      Collected: 03/09/22 12:20      Received: 03/11/22 09:35      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide, Total</b>									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/16/22 14:42	18496-25-8	

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## ANALYTICAL RESULTS

Project: WMWMILAP\_1354

Pace Project No.: 20237334

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: BC05098 MW-34H      Lab ID: 20237334021      Collected: 03/09/22 14:15      Received: 03/11/22 09:35      Matrix: Water</b>									
<b>4500S2D Sulfide, Total</b>									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	3.3	mg/L	0.50	0.30	25		03/16/22 14:43	18496-25-8	

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### ANALYTICAL RESULTS

Project: WMWMILAP\_1354

Pace Project No.: 20237334

**Sample: BC05471 MW-33H**      **Lab ID: 20237334022**      Collected: 03/14/22 11:54      Received: 03/16/22 09:55      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide, Total</b>									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/19/22 10:09	18496-25-8	

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### ANALYTICAL RESULTS

Project: WMWMILAP\_1354

Pace Project No.: 20237334

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**Sample: BC05472 MW-5**      **Lab ID: 20237334023**      Collected: 03/14/22 13:05      Received: 03/16/22 09:55      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide, Total</b>									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/19/22 10:10	18496-25-8	

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### ANALYTICAL RESULTS

Project: WMWMILAP\_1354  
Pace Project No.: 20237334

Sample: BC05473 MW-5 DUP									
Lab ID: 20237334024									
Collected: 03/14/22 13:05									
Received: 03/16/22 09:55									
Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide, Total</b>									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/19/22 10:10	18496-25-8	

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### ANALYTICAL RESULTS

Project: WMWMILAP\_1354

Pace Project No.: 20237334

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**Sample: BC05474 PZ-5**      **Lab ID: 20237334025**      Collected: 03/14/22 14:58      Received: 03/16/22 09:55      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide, Total</b>									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	4.1	mg/L	1.0	0.59	50		03/19/22 11:07	18496-25-8	

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### ANALYTICAL RESULTS

Project: WMWMILAP\_1354

Pace Project No.: 20237334

**Sample: BC05475 MW-4**      **Lab ID: 20237334026**      Collected: 03/15/22 08:49      Received: 03/16/22 09:55      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide, Total</b>									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/22/22 12:35	18496-25-8	

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### ANALYTICAL RESULTS

Project: WMWMILAP\_1354

Pace Project No.: 20237334

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**Sample: BC05476 MW-4V**      **Lab ID: 20237334027**      Collected: 03/15/22 09:38      Received: 03/16/22 09:55      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide, Total</b>									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/22/22 12:35	18496-25-8	

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### ANALYTICAL RESULTS

Project: WMWMILAP\_1354

Pace Project No.: 20237334

**Sample: BC05477 MW-4V DUP**      **Lab ID: 20237334028**      Collected: 03/15/22 09:38      Received: 03/16/22 09:55      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide, Total</b>									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/22/22 12:36	18496-25-8	

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### ANALYTICAL RESULTS

Project: WMWMILAP\_1354

Pace Project No.: 20237334

**Sample: BC05478 MW-27HR**      **Lab ID: 20237334029**      Collected: 03/14/22 12:18      Received: 03/16/22 09:55      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide, Total</b>									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/19/22 10:12	18496-25-8	

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### ANALYTICAL RESULTS

Project: WMWMILAP\_1354

Pace Project No.: 20237334

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**Sample: BC05479 MW-28H**      **Lab ID: 20237334030**      Collected: 03/14/22 14:40      Received: 03/16/22 09:55      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide, Total</b>									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/19/22 10:47	18496-25-8	

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### ANALYTICAL RESULTS

Project: WMWMILAP\_1354  
Pace Project No.: 20237334

Sample: BC05480 FB-2      Lab ID: 20237334031      Collected: 03/14/22 15:45      Received: 03/16/22 09:55      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide, Total</b>									
Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/19/22 10:48	18496-25-8	

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## ANALYTICAL RESULTS

Project: WMWMILAP\_1354

Pace Project No.: 20237334

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: BC05481 MW-23      Lab ID: 20237334032      Collected: 03/15/22 09:45      Received: 03/16/22 09:55      Matrix: Water</b>									
Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/22/22 12:36	18496-25-8	

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### ANALYTICAL RESULTS

Project: WMWMILAP\_1354  
Pace Project No.: 20237334

Sample: BC05482 MW-1		Lab ID: 20237334033		Collected: 03/15/22 11:10	Received: 03/16/22 09:55	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide, Total</b>		Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans							
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/22/22 12:41	18496-25-8	

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### ANALYTICAL RESULTS

Project: WMWMILAP\_1354  
Pace Project No.: 20237334

Sample: BC05697 MW-6      Lab ID: 20237334034      Collected: 03/16/22 09:05      Received: 03/18/22 09:45      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide, Total</b>									
Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/22/22 13:17	18496-25-8	

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### ANALYTICAL RESULTS

Project: WMWMILAP\_1354

Pace Project No.: 20237334

Sample: BC05698 MW-6V      Lab ID: 20237334035      Collected: 03/16/22 10:49      Received: 03/18/22 09:45      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide, Total</b>									
Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/22/22 13:19	18496-25-8	

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## ANALYTICAL RESULTS

Project: WMWMILAP\_1354

Pace Project No.: 20237334

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**Sample: BC05699 MW-3S**      **Lab ID: 20237334036**      Collected: 03/16/22 12:42      Received: 03/18/22 09:45      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide, Total</b>									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	<b>0.086</b>	mg/L	0.020	0.012	1		03/22/22 13:20	18496-25-8	

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### ANALYTICAL RESULTS

Project: WMWMILAP\_1354  
Pace Project No.: 20237334

Sample: BC05700 FB-4      Lab ID: 20237334037      Collected: 03/16/22 13:25      Received: 03/18/22 09:45      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide, Total</b>									
Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/22/22 13:20	18496-25-8	

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### ANALYTICAL RESULTS

Project: WMWMILAP\_1354

Pace Project No.: 20237334

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**Sample: BC05701 MW-3D**      **Lab ID: 20237334038**      Collected: 03/16/22 14:00      Received: 03/18/22 09:45      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide, Total</b>									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/22/22 13:21	18496-25-8	

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### ANALYTICAL RESULTS

Project: WMWMILAP\_1354  
Pace Project No.: 20237334

Sample: BC05702 MW-2      Lab ID: 20237334039      Collected: 03/16/22 15:43      Received: 03/18/22 09:45      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide, Total</b>									
Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/22/22 13:21	18496-25-8	

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### ANALYTICAL RESULTS

Project: WMWMILAP\_1354

Pace Project No.: 20237334

**Sample: BC05703 MW-10**      **Lab ID: 20237334040**      Collected: 03/17/22 07:56      Received: 03/18/22 09:45      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide, Total</b>									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/24/22 15:38	18496-25-8	

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### ANALYTICAL RESULTS

Project: WMWMILAP\_1354

Pace Project No.: 20237334

**Sample: BC05704 MW-21**      **Lab ID: 20237334041**      Collected: 03/17/22 09:28      Received: 03/18/22 09:45      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide, Total</b>									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	<b>0.46</b>	mg/L	0.020	0.012	1		03/24/22 15:38	18496-25-8	

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### ANALYTICAL RESULTS

Project: WMWMILAP\_1354

Pace Project No.: 20237334

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**Sample: BC05705 MW-37H**      **Lab ID: 20237334042**      Collected: 03/17/22 10:49      Received: 03/18/22 09:45      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide, Total</b>									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	<b>0.021</b>	mg/L	0.020	0.012	1		03/24/22 15:38	18496-25-8	

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### ANALYTICAL RESULTS

Project: WMWMILAP\_1354

Pace Project No.: 20237334

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**Sample: BC05706 MW-30H**      **Lab ID: 20237334043**      Collected: 03/16/22 11:10      Received: 03/18/22 09:45      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide, Total</b>									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	<b>0.21</b>	mg/L	0.020	0.012	1		03/23/22 14:42	18496-25-8	

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### ANALYTICAL RESULTS

Project: WMWMILAP\_1354

Pace Project No.: 20237334

**Sample: BC05707 MW-11**      **Lab ID: 20237334044**      Collected: 03/16/22 13:27      Received: 03/18/22 09:45      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide, Total</b>									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/23/22 14:43	18496-25-8	

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### ANALYTICAL RESULTS

Project: WMWMILAP\_1354

Pace Project No.: 20237334

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**Sample: BC05708 FB-5**      **Lab ID: 20237334045**      Collected: 03/16/22 15:50      Received: 03/18/22 09:45      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide, Total</b>									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/23/22 14:43	18496-25-8	

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### ANALYTICAL RESULTS

Project: WMWMILAP\_1354

Pace Project No.: 20237334

**Sample: BC05709 MW-36HR**      **Lab ID: 20237334046**      Collected: 03/16/22 16:57      Received: 03/18/22 09:45      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide, Total</b>	Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans								
Sulfide, Total	<b>0.051</b>	mg/L	0.020	0.012	1		03/23/22 14:44	18496-25-8	

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## ANALYTICAL RESULTS

Project: WMWMILAP\_1354

Pace Project No.: 20237334

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**Sample: BC05710 MW-31H**      **Lab ID: 20237334047**      Collected: 03/16/22 19:27      Received: 03/18/22 09:45      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide, Total</b>									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	<b>0.035</b>	mg/L	0.020	0.012	1		03/23/22 14:44	18496-25-8	

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### ANALYTICAL RESULTS

Project: WMWMILAP\_1354

Pace Project No.: 20237334

**Sample: BC05711 MW-12**      **Lab ID: 20237334048**      Collected: 03/17/22 09:40      Received: 03/18/22 09:45      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide, Total</b>									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/24/22 15:38	18496-25-8	

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### ANALYTICAL RESULTS

Project: WMWMILAP\_1354

Pace Project No.: 20237334

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**Sample: BC05712 EB-1**      **Lab ID: 20237334049**      Collected: 03/17/22 10:40      Received: 03/18/22 09:45      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide, Total</b>									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/24/22 15:38	18496-25-8	

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### ANALYTICAL RESULTS

Project: WMWMILAP\_1354

Pace Project No.: 20237334

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**Sample: BC05713 MW-23A**      **Lab ID: 20237334050**      Collected: 03/16/22 11:00      Received: 03/18/22 09:45      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide, Total</b>									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/23/22 14:45	18496-25-8	

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### ANALYTICAL RESULTS

Project: WMWMILAP\_1354  
Pace Project No.: 20237334

Sample: BC05714 MW-22S      Lab ID: 20237334051      Collected: 03/16/22 13:33      Received: 03/18/22 09:45      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide, Total</b>									
Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/23/22 14:46	18496-25-8	

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### ANALYTICAL RESULTS

Project: WMWMILAP\_1354  
Pace Project No.: 20237334

Sample: BC05715 MW-22S DUP      Lab ID: 20237334052      Collected: 03/16/22 13:33      Received: 03/18/22 09:45      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide, Total</b>									
Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/23/22 14:46	18496-25-8	

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### ANALYTICAL RESULTS

Project: WMWMILAP\_1354

Pace Project No.: 20237334

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**Sample: BC05716 MW-22I**      **Lab ID: 20237334053**      Collected: 03/16/22 14:58      Received: 03/18/22 09:45      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide, Total</b>									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	<b>0.24</b>	mg/L	0.020	0.012	1		03/23/22 14:47	18496-25-8	

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### ANALYTICAL RESULTS

Project: WMWMILAP\_1354

Pace Project No.: 20237334

**Sample: BC05717 MW-22D**      **Lab ID: 20237334054**      Collected: 03/17/22 11:13      Received: 03/18/22 09:45      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide, Total</b>									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	<b>0.26</b>	mg/L	0.020	0.012	1		03/24/22 15:38	18496-25-8	

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### QUALITY CONTROL DATA

Project: WMWMILAP\_1354  
Pace Project No.: 20237334

QC Batch:	250005	Analysis Method:	SM 4500-S-2 D
QC Batch Method:	SM 4500-S-2 D	Analysis Description:	4500S2D Sulfide, Total
		Laboratory:	Pace Analytical Services - New Orleans

Associated Lab Samples: 20237334001, 20237334002, 20237334003, 20237334004, 20237334005, 20237334006, 20237334011, 20237334012, 20237334013

METHOD BLANK: 1187603 Matrix: Water  
Associated Lab Samples: 20237334001, 20237334002, 20237334003, 20237334004, 20237334005, 20237334006, 20237334011, 20237334012, 20237334013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.020	0.012	03/14/22 13:35	

LABORATORY CONTROL SAMPLE: 1187604

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.2	0.18	90	90-110	

MATRIX SPIKE SAMPLE: 1187606

Parameter	Units	20237334001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	0.2	0.17	83	75-125	

SAMPLE DUPLICATE: 1187605

Parameter	Units	20237334001 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

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### QUALITY CONTROL DATA

Project: WMWMILAP\_1354  
Pace Project No.: 20237334

QC Batch:	250232	Analysis Method:	SM 4500-S-2 D
QC Batch Method:	SM 4500-S-2 D	Analysis Description:	4500S2D Sulfide, Total
		Laboratory:	Pace Analytical Services - New Orleans

Associated Lab Samples: 20237334007, 20237334008, 20237334009, 20237334010, 20237334014, 20237334015, 20237334016, 20237334017, 20237334018, 20237334019, 20237334020, 20237334021

METHOD BLANK: 1188725 Matrix: Water  
Associated Lab Samples: 20237334007, 20237334008, 20237334009, 20237334010, 20237334014, 20237334015, 20237334016, 20237334017, 20237334018, 20237334019, 20237334020, 20237334021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.020	0.012	03/16/22 13:43	

LABORATORY CONTROL SAMPLE: 1188726

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.2	0.18	93	90-110	

MATRIX SPIKE SAMPLE: 1188728

Parameter	Units	20237429001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	0.2	0.14	67	75-125	M1

SAMPLE DUPLICATE: 1188727

Parameter	Units	20237429001 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

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### QUALITY CONTROL DATA

Project: WMWMLAP\_1354  
Pace Project No.: 20237334

QC Batch: 250508      Analysis Method: SM 4500-S-2 D  
QC Batch Method: SM 4500-S-2 D      Analysis Description: 4500S2D Sulfide, Total  
Laboratory: Pace Analytical Services - New Orleans  
Associated Lab Samples: 20237334022, 20237334023, 20237334024, 20237334025, 20237334029, 20237334030, 20237334031

METHOD BLANK: 1190399      Matrix: Water  
Associated Lab Samples: 20237334022, 20237334023, 20237334024, 20237334025, 20237334029, 20237334030, 20237334031

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.020	0.012	03/19/22 10:46	

LABORATORY CONTROL SAMPLE: 1190400

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.2	0.19	94	90-110	

MATRIX SPIKE SAMPLE: 1190402

Parameter	Units	20237530002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	<0.020	0.2	0.014J	7	75-125	M1

SAMPLE DUPLICATE: 1190401

Parameter	Units	20237530002 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	<0.020	ND		20	

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### QUALITY CONTROL DATA

Project: WMWMILAP\_1354  
Pace Project No.: 20237334

QC Batch: 250663 Analysis Method: SM 4500-S-2 D  
QC Batch Method: SM 4500-S-2 D Analysis Description: 4500S2D Sulfide, Total  
Laboratory: Pace Analytical Services - New Orleans  
Associated Lab Samples: 20237334026, 20237334027, 20237334028, 20237334032, 20237334033, 20237334034, 20237334035, 20237334036, 20237334037, 20237334038, 20237334039

METHOD BLANK: 1191026 Matrix: Water  
Associated Lab Samples: 20237334026, 20237334027, 20237334028, 20237334032, 20237334033, 20237334034, 20237334035, 20237334036, 20237334037, 20237334038, 20237334039

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.020	0.012	03/22/22 12:33	

LABORATORY CONTROL SAMPLE: 1191027

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.2	0.20	99	90-110	

MATRIX SPIKE SAMPLE: 1191029

Parameter	Units	20238113001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.078	0.2	0.13	24	75-125	M1

SAMPLE DUPLICATE: 1191028

Parameter	Units	20238113001 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	0.078	0.076	3	20	

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### QUALITY CONTROL DATA

Project: WMWMILAP\_1354  
Pace Project No.: 20237334

QC Batch:	250830	Analysis Method:	SM 4500-S-2 D
QC Batch Method:	SM 4500-S-2 D	Analysis Description:	4500S2D Sulfide, Total
		Laboratory:	Pace Analytical Services - New Orleans

Associated Lab Samples: 20237334043, 20237334044, 20237334045, 20237334046, 20237334047, 20237334050, 20237334051, 20237334052, 20237334053

METHOD BLANK: 1191799 Matrix: Water  
Associated Lab Samples: 20237334043, 20237334044, 20237334045, 20237334046, 20237334047, 20237334050, 20237334051, 20237334052, 20237334053

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.020	0.012	03/23/22 14:07	

LABORATORY CONTROL SAMPLE: 1191800

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.2	0.20	99	90-110	

MATRIX SPIKE SAMPLE: 1191802

Parameter	Units	20238231001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.14	0.2	0.29	76	75-125	

SAMPLE DUPLICATE: 1191801

Parameter	Units	20238231001 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	0.14	0.14	1	20	

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### QUALITY CONTROL DATA

Project: WMWMILAP\_1354  
Pace Project No.: 20237334

QC Batch:	250981	Analysis Method:	SM 4500-S-2 D
QC Batch Method:	SM 4500-S-2 D	Analysis Description:	4500S2D Sulfide, Total
		Laboratory:	Pace Analytical Services - New Orleans

Associated Lab Samples: 20237334040, 20237334041, 20237334042, 20237334048, 20237334049, 20237334054

METHOD BLANK: 1192577 Matrix: Water  
Associated Lab Samples: 20237334040, 20237334041, 20237334042, 20237334048, 20237334049, 20237334054

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.020	0.012	03/24/22 15:38	

LABORATORY CONTROL SAMPLE: 1192578

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.2	0.20	98	90-110	

MATRIX SPIKE SAMPLE: 1192580

Parameter	Units	20238233001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.086	0.2	0.20	56	75-125	M1

SAMPLE DUPLICATE: 1192579

Parameter	Units	20238233001 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	0.086	0.086	1	20	

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## QUALIFIERS

Project: WMWMILAP\_1354

Pace Project No.: 20237334

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### 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.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The Nelac Institute

### ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWMLAP\_1354

Pace Project No.: 20237334

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
20237334001	BC05078 MW-35H	SM 4500-S-2 D	250005		
20237334002	BC05079 MW-17H	SM 4500-S-2 D	250005		
20237334003	BC05080 MW-18H	SM 4500-S-2 D	250005		
20237334004	BC05081 MW-7SR	SM 4500-S-2 D	250005		
20237334005	BC05082 MW-7DR	SM 4500-S-2 D	250005		
20237334006	BC05083 FB-1	SM 4500-S-2 D	250005		
20237334007	BC05084 MW-32H	SM 4500-S-2 D	250232		
20237334008	BC05085 MW-20HS	SM 4500-S-2 D	250232		
20237334009	BC05086 MW-20HS DUP	SM 4500-S-2 D	250232		
20237334010	BC05087 MW-20H	SM 4500-S-2 D	250232		
20237334011	BC05088 MW-9SR	SM 4500-S-2 D	250005		
20237334012	BC05089 MW-9DR	SM 4500-S-2 D	250005		
20237334013	BC05090 MW-16	SM 4500-S-2 D	250005		
20237334014	BC05091 MW-15	SM 4500-S-2 D	250232		
20237334015	BC05092 MW-15 DUP	SM 4500-S-2 D	250232		
20237334016	BC05093 MW-14R	SM 4500-S-2 D	250232		
20237334017	BC05094 MW-13DR	SM 4500-S-2 D	250232		
20237334018	BC05095 MW-13SR	SM 4500-S-2 D	250232		
20237334019	BC05096 MW-19HA	SM 4500-S-2 D	250232		
20237334020	BC05097 FB-3	SM 4500-S-2 D	250232		
20237334021	BC05098 MW-34H	SM 4500-S-2 D	250232		
20237334022	BC05471 MW-33H	SM 4500-S-2 D	250508		
20237334023	BC05472 MW-5	SM 4500-S-2 D	250508		
20237334024	BC05473 MW-5 DUP	SM 4500-S-2 D	250508		
20237334025	BC05474 PZ-5	SM 4500-S-2 D	250508		
20237334026	BC05475 MW-4	SM 4500-S-2 D	250663		
20237334027	BC05476 MW-4V	SM 4500-S-2 D	250663		
20237334028	BC05477 MW-4V DUP	SM 4500-S-2 D	250663		
20237334029	BC05478 MW-27HR	SM 4500-S-2 D	250508		
20237334030	BC05479 MW-28H	SM 4500-S-2 D	250508		
20237334031	BC05480 FB-2	SM 4500-S-2 D	250508		
20237334032	BC05481 MW-23	SM 4500-S-2 D	250663		
20237334033	BC05482 MW-1	SM 4500-S-2 D	250663		
20237334034	BC05697 MW-6	SM 4500-S-2 D	250663		
20237334035	BC05698 MW-6V	SM 4500-S-2 D	250663		
20237334036	BC05699 MW-3S	SM 4500-S-2 D	250663		
20237334037	BC05700 FB-4	SM 4500-S-2 D	250663		
20237334038	BC05701 MW-3D	SM 4500-S-2 D	250663		
20237334039	BC05702 MW-2	SM 4500-S-2 D	250663		
20237334040	BC05703 MW-10	SM 4500-S-2 D	250981		
20237334041	BC05704 MW-21	SM 4500-S-2 D	250981		
20237334042	BC05705 MW-37H	SM 4500-S-2 D	250981		
20237334043	BC05706 MW-30H	SM 4500-S-2 D	250830		
20237334044	BC05707 MW-11	SM 4500-S-2 D	250830		

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWMILAP\_1354  
Pace Project No.: 20237334

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
20237334045	BC05708 FB-5	SM 4500-S-2 D	250830		
20237334046	BC05709 MW-36HR	SM 4500-S-2 D	250830		
20237334047	BC05710 MW-31H	SM 4500-S-2 D	250830		
20237334048	BC05711 MW-12	SM 4500-S-2 D	250981		
20237334049	BC05712 EB-1	SM 4500-S-2 D	250981		
20237334050	BC05713 MW-23A	SM 4500-S-2 D	250830		
20237334051	BC05714 MW-22S	SM 4500-S-2 D	250830		
20237334052	BC05715 MW-22S DUP	SM 4500-S-2 D	250830		
20237334053	BC05716 MW-22I	SM 4500-S-2 D	250830		
20237334054	BC05717 MW-22D	SM 4500-S-2 D	250981		

### REPORT OF LABORATORY ANALYSIS

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NO#: 20237334



**CHAIN-OF-CUSTODY / Analytical Request Document**  
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be cor

Section A Required Client Information: Alabama Power Company, 744 Highway 87 GSC Bldg #8, Calera, AL 35040  
 Section B Required Project Information: Report To: Laura Mickiff, Copy To: Brooke Caton & Renee Jernigan  
 Section C Invoice Information: Laura Mickiff, Alabama Power Co, 744 Highway 87 GSC Bldg #8

Address: 744 Highway 87 GSC Bldg #8  
 Email To: ldmickiff@southernco.com  
 Phone: 205-664-6197  
 Requested Due Date: Normal  
 Purchase Order #: APC10755638  
 Project Name: Plant Miller Ash Pond  
 Project Number: WMMWMLAP\_1354  
 Company Name: Alabama Power Co  
 Address: 744 Highway 87 GSC Bldg #8  
 Page Queue: CCR  
 Page Project Manager: Karen Brown  
 Page Profile #: 17210  
 Regulatory Agency: AL  
 State/Location: AL

ITEM #	SAMPLE ID (A-Z, 0-9 /, -) Sample IDs must be unique	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	EPA 9315	EPA 9320	Total Radium Sum	Total Sulfide	Residual Chlorine (Y/N)
										DATE	TIME		Unpreserved	NaOH+ZnAcetate	HNO3						
1	BC05078	MW-35H	APCO-MR-AP-MW-35H	APCO_Miller_AshPond				GW	G	3/8/2022	7:57	1	X								
2	BC05079	MW-17H	APCO-MR-AP-MW-17H	APCO_Miller_AshPond				GW	G	3/8/2022	9:14	1	X								
3	BC05080	MW-18H	APCO-MR-AP-MW-18H	APCO_Miller_AshPond				GW	G	3/8/2022	10:38	1	X								
4	BC05081	MW-7SR	APCO-MR-AP-MW-7SR	APCO_Miller_AshPond				GW	G	3/8/2022	12:48	1	X								
5	BC05082	MW-7DR	APCO-MR-AP-MW-7DR	APCO_Miller_AshPond				GW	G	3/8/2022	13:46	1	X								
6	BC05083	FB-1	APCO-MR-AP-FB-01	APCO_Miller_AshPond				GW	G	3/8/2022	14:35	1	X								
7	BC05084	MW-32H	APCO-MR-AP-MW-32H	APCO_Miller_AshPond				GW	G	3/9/2022	8:42	1	X								
8	BC05085	MW-20HS	APCO-MR-AP-MW-20HS	APCO_Miller_AshPond				GW	G	3/9/2022	10:30	1	X								
9	BC05086	MW-20HS DUP	APCO-MR-AP-MW-20HS	APCO_Miller_AshPond				GW	G	3/9/2022	10:30	1	X								
10	BC05087	MW-20H	APCO-MR-AP-MW-20H	APCO_Miller_AshPond				GW	G	3/9/2022	12:23	1	X								
11																					
12																					

ADDITIONAL COMMENTS: Laura Mickiff APC GTL  
 RELINQUISHED BY / AFFILIATION: Carrier  
 DATE: 3/10/2022  
 TIME: 12:37  
 ACCEPTED BY / AFFILIATION: [Signature]  
 DATE: 3/11/22  
 TIME: 9:35  
 SAMPLE CONDITIONS: TEMP in C, Received on Ice (Y/N), Custody Sealed Cooler (Y/N), Samples Intact (Y/N)

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: Company: Alabama Power Company Address: 744 Highway 87 GSC Bldg #8 Calera, AL 35040 Email To: lbrndkiff@southernco.com Phone: 205-664-6197 Fax: Requested Due Date: Normal

Section B Required Project Information: Report To: Laura Mickiff Copy To: Brooke Caton & Renee Jerrigan Purchase Order #: APC10755638 Project Name: Plant Miller Ash Pond Project Number: WMMWMLAP\_1354

Section C Invoice Information: Attention: Laura Mickiff Company Name: Alabama Power Co. Address: 744 Highway 87 GSC Bldg #8 CCR Page Quote: Karen Brown Page Project Manager: Page Profile #: 17210

Regulatory Agency: AL State / Location: AL

Page : 2 Of

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample IDs must be unique	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	EPA 9315	EPA 9320	Total Radium Sum	Total Sulfide	Residual Chlorine (Y/N)	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)	
										START	TIME													
1	BC05098	MW-9SR	APCO-MR-AP-MW-9SR	APCO Miller AshPond				GW	G	3/8/2022	9:39	1	X											
2	BC05099	MW-9DR	APCO-MR-AP-MW-9DR	APCO Miller AshPond				GW	G	3/8/2022	11:00	1	X											
3	BC05090	MW-16	APCO-MR-AP-MW-16	APCO Miller AshPond				GW	G	3/8/2022	13:25	1	X											
4	BC05091	MW-15	APCO-MR-AP-MW-15	APCO Miller AshPond				GW	G	3/9/2022	10:09	1	X											
5	BC05092	MW-15 DUP	APCO-MR-AP-MW-15	APCO Miller AshPond	X			GW	G	3/9/2022	10:09	1	X											
6	BC05093	MW-14R	APCO-MR-AP-MW-14R	APCO Miller AshPond				GW	G	3/9/2022	11:38	1	X											
7	BC05094	MW-13DR	APCO-MR-AP-MW-13DR	APCO Miller AshPond				GW	G	3/9/2022	13:27	1	X											
8	BC05095	MW-13SR	APCO-MR-AP-MW-13SR	APCO Miller AshPond				GW	G	3/9/2022	15:10	1	X											
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS: RELINQUISHED BY AFFILIATION: Laura Mickiff APC GTL

DATE: 3/10/2022 TIME: 12:37

ACCEPTED BY AFFILIATION: *[Signature]* DATE: 3/1/22 TIME: 9:35

TEMP in C: 1.8

Received on Ice (Y/N): Y

Custody Sealed Cooler (Y/N): Y

Samples Intact (Y/N): Y

SAMPLER NAME AND SIGNATURE: PRINT Name of SAMPLER: T.J. Daugherty DATE Signed: DATE: 3/1/22

SIGNATURE OF SAMPLER: *[Signature]*

# 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: Alabama Power Company, 744 Highway 87 GSC Bldg #8, Calera, AL 35040, Email To: lbmicki@southernco.com, Phone: 205-664-6197, Requested Due Date: Normal

Section B Required Project Information: Report To: Laura Mickitt, Copy To: Brooke Caton & Renee Jernigan, Purchase Order #: APC10755638, Project Name: Plant Miller Ash Pond, Project Number: WMANMILAP-1384

Section C Invoice Information: Attention: Laura Mickitt, Company Name: Alabama Power Co., Address: 744 Highway 87 GSC Bldg #8, City: Calera, AL, State: AL, Invoice Date: 3/12/22, Invoice Time: 9:35, Requested Analysis Filtered (Y/N): Y, State/Location: AL

ITEM #	SAMPLE ID <small>One Character per box: (A-Z, 0-9 /, -) Sample IDs must be unique</small>	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	EPA 9315	EPA 9320	Total Radium Sum	Total Sulfide	Residual Chlorine (Y/N)
										DATE	TIME		Unpreserved	NaOH+ZnAcetate	HNO3						
1	EC05096	MW-19HA	APCO-MR-AP-MW-19HA	APCO_Miller_AshPond				GW	G	3/9/2022	11:43	1	X								
2	EC05097	FB-3	APCO-MR-AP-FB-03	APCO_Miller_AshPond				GW	G	3/9/2022	12:20	1	X								
3	EC05098	MW-34H	APCO-MR-AP-MW-34H	APCO_Miller_AshPond				GW	G	3/9/2022	14:15	1	X								
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS: RELINQUISHED BY / AFFILIATION: Laura Mickitt/ APC GTL DATE: 3/10/2022 TIME: 12:37 ACCEPTED BY / AFFILIATION: [Signature] DATE: 3/12/22 TIME: 9:35

SAMPLER NAME AND SIGNATURE: [Signature] PRINT NAME OF SAMPLER: Anthony Goggins DATE SIGNED: DATE SIGNED: TEMP in C: Received on Ice (Y/N): Custody Sealed Cooler (Y/N): Samples Intact (Y/N):

**MO# : 20237334**

**PM : KHB Due Date : 03/23/22**

**CLIENT : 20-Alabama**

**CHAIN-OF-CUSTODY / Analytical Request Document**  
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be cor

Section A  
 Required Client Information: Alabama Power Company  
 Address: 744 Highway 87 GSC Bldg #8  
 Email To: lbntickliff@southpower.com  
 Phone: 205-604-6197 Fax  
 Requested Due Date: Normal

Section B  
 Required Project Information: Report To: Laura Mickliff  
 Copy To: Brooke Caton & Renee Jernigan  
 Purchase Order #: APC10755638  
 Project Name: Plant Miller Ash Pond  
 Project Number: WMMWMLAP\_1354

Section C  
 Invoice Information: Laura Mickliff  
 Attention: Laura Mickliff  
 Company Name: Alabama Power Co.  
 Address: 744 Highway 87 GSC Bldg #8  
 Page Quote: CCR  
 Page Profile #: 17210  
 Requested Analysis Filtered: (Y/N)  
 State / Location: AL

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample IDs must be unique	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	EPA 9315	EPA 9320	Total Radium Sum	Total Sulfide	Residual Chlorine (Y/N)
										DATE	TIME		Unpreserved	NaOH+ZnAcetate	HNO3						
1	BC05471	MW-33H	APCO-MR-AP-MW-33H	APCO_Miller_AshPond				GW	G	3/14/2022	11:54	1									
2	BC05472	MW-5	APCO-MR-AP-MW-5	APCO_Miller_AshPond				GW	G	3/14/2022	13:05	1	X								
3	BC05473	MW-5 DUP	APCO-MR-AP-MW-5	APCO_Miller_AshPond	X			GW	G	3/14/2022	13:05	1	X								
4	BC05474	PZ-5	APCO-MR-AP-PZ-5	APCO_Miller_AshPond				GW	G	3/14/2022	14:58	1	X								
5	BC05475	MW-4	APCO-MR-AP-MW-4	APCO_Miller_AshPond				GW	G	3/15/2022	8:49	1	X								
6	BC05476	MW-4V	APCO-MR-AP-MW-4V	APCO_Miller_AshPond				GW	G	3/15/2022	9:38	1	X								
7	BC05477	MW-4V DUP	APCO-MR-AP-MW-4V	APCO_Miller_AshPond	X			GW	G	3/15/2022	9:38	1	X								
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS: Laura Mickliff APC GTL

RELINQUISHED BY / AFFILIATION: *Gresham*

DATE: 3/15/2022 TIME: 15:45

ACCEPTED BY / AFFILIATION: *A. Gray*

DATE: 3/16/22 TIME: 9:55

DATE: 3/16/22 TIME: 9:55

TEMP in C: 15.4

Received on Ice (Y/N): Y

Custody Sealed Cooler (Y/N): Y

Samples Intact (Y/N): Y

SAMPLER NAME AND SIGNATURE: *Gresham*

PRINT Name of SAMPLER: Dallas Gentry

SIGNATURE of SAMPLER: *D. Gentry*

DATE Signed: 3/16/22

**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: **lmdicki@sculterrco.com**  
 Phone: **205-664-6197** Fax:  
 Requested Due Date: **Normal**

**Section B**  
 Required Project Information:  
 Report To: **Laura Mickitt**  
 Copy To: **Brooke Caton & Renee Jarrigan**  
 Purchase Order #: **APC10755638**  
 Project Name: **Plant Miller Ash Pond**  
 Project Number: **VMWMMILAP-1354**

**Section C**  
 Invoice Information:  
 Attention: **Laura Mickitt**  
 Company Name: **Alabama Power Co.**  
 Address: **744 Highway 87 GSC Bldg #8**  
 Pace Quote:  
 Pace Project Manager: **Karen Brown**  
 Pace Profile #:  
 Requested Analysis Filtered (Y/N):  
 State Location: **AL**  
 Regulatory Agency:

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9, -, ) Sample IDs must be unique	Description	Station Name Location, Code	Site Name Facility ID	COLLECTED		Requester	Requested Analysis Filtered (Y/N)	State Location	Regulatory Agency								
					DATE	TIME												
1	BC05478	MW-27HR	APCO-MR-AP-MW-27HR	APCO Miller AshPond	3/14/2022	12:18	1	X										
2	BC05479	MW-28H	APCO-MR-AP-MW-28H	APCO Miller AshPond	3/14/2022	14:40	1	X										
3	BC05480	FB-2	APCO-MR-AP-FB-2	APCO Miller AshPond	3/14/2022	15:45	1	X										
4	BC05481	MW-23	APCO-MR-AP-MW-23	APCO Miller AshPond	3/15/2022	9:45	1	X										
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
ADDITIONAL COMMENTS					RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS	
					Laura Mickitt APC GTL		3/15/2022		15:45		Karen Brown Pace		3/16/22		9:55		Y Y Y Y	

**SAMPLER NAME AND SIGNATURE**  
 PRINT Name of SAMPLER: \_\_\_\_\_  
 SIGNATURE of SAMPLER: \_\_\_\_\_

**TEMP in C**  
 Received on Ice (Y/N)  
 Custody Sealed Cooler (Y/N)  
 Samples Intact (Y/N)

TJ Daugherty  
 DATE Signed: \_\_\_\_\_

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: Section B Required Project Information:

Company: Alabama Power Company	Report To: Laura Mickitt
Address: 744 Highway 87 GSC Bldg #8 Calera, AL 35040	Copy To: Brooke Caton & Rense Jernigan
Email To: lomidkitt@southpower.com	Purchase Order #: APC10755638
Phone: 205-664-6197 Fax	Project Name: Plant Miller Ash Pond
Requested Due Date: Normal	Project Number: WMMWMLAP_1354
	Address: 744 Highway 87 GSC Bldg #8
	Company Name: Alabama Power Co.
	Page Queue: CCR
	Page Project Manager: Karen Brown
	Page Profile #: 17210
	State/Location: AL

Section C Invoice Information: Page : 6 Of

ITEM #	SAMPLE ID <small>One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique</small>	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	Residual Chlorine (Y/N)	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)	
										START DATE	TIME		Unpreserved	NaOH+ZnAcetate	HNO3							Y/N
1	BC05482	MW-1	APCO-MR-AP-MW-1	APCO_Miller_AshPond				GM	G	3/15/2022	11:10	1										
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	REFINISHED BY/AFFILIATION
	Laura Mickitt APC GTL
	3/15/2022 15:45
	9/15/22 9:55
	Anthony Goggins
	DATE Signed: 3/16/22 9:55
	TEMP in C 1.5
	Received on Ice (Y/N) Y
	Custody Sealed Cooler (Y/N) Y
	Samples Intact (Y/N) Y

**MO#: 20237334**

PM: KHB Due Date: 03/23/22

CLIENT: 20-Alabama

**CHAIN-OF-CUSTODY / Analytical Request Document**  
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be complete.

Page: 7 of 9

<b>Section A</b> Required Client Information:	<b>Section B</b> Reported Project Information:	<b>Section C</b> Invoice Information:
Company: Alabama Power Company	Report To: Laura Mickiff	Attention: Laura Mickiff
Address: 744 Highway 87 GSC Bldg #8 Calera, AL 35040	Copy To: Brooke Catton & Renee Jernigan	Company Name: Alabama Power Co.
Email To: lbmickiff@southernco.com	Purchase Order #: APC10755638	Address: 744 Highway 87 GSC Bldg #8
Phone: 205-664-6197 Fax	Project Name: Plant Miller Ash Pond	Page Queue: CCR
Requested Due Date: Normal	Project Number: WMMWMLAP 1354	Page Project Manager: Karen Brown
		Page Profile #: 17210
		Requested Analytic Filtered (Y/N):
		Regulatory Agency: AL

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample IDs must be unique	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)	START		# OF CONTAINERS	Preservatives			Analyses Test	EPA 9315	EPA 9320	Total Radium Sum	Total Sulfide	Residual Chlorine (Y/N)
										DATE	TIME		Unpreserved	NaOH+ZnAcetate	HNO3						
1	BC06897	MMW-6	APCO-MIR-AP-MMW-6	APCO_Miller_AshPond				GM	G	3/16/2022	9:05	1	X					X			
2	BC06898	MMW-6V	APCO-MIR-AP-MMW-6V	APCO_Miller_AshPond				GM	G	3/16/2022	10:49	1	X					X			
3	BC06899	MMW-3S	APCO-MIR-AP-MMW-3S	APCO_Miller_AshPond				GM	G	3/16/2022	12:42	1	X					X			
4	BC06700	FB-4	APCO-MIR-AP-FB-04	APCO_Miller_AshPond				GM	G	3/16/2022	13:25	1	X					X			
5	BC06701	MMW-3D	APCO-MIR-AP-MMW-3D	APCO_Miller_AshPond				GM	G	3/16/2022	14:00	1	X					X			
6	BC06702	MMW-2	APCO-MIR-AP-MMW-2	APCO_Miller_AshPond				GM	G	3/16/2022	15:43	1	X					X			
7	BC06703	MMW-10	APCO-MIR-AP-MMW-10	APCO_Miller_AshPond				GM	G	3/17/2022	7:56	1	X					X			
8	BC06704	MMW-21	APCO-MIR-AP-MMW-21	APCO_Miller_AshPond				GM	G	3/17/2022	9:28	1	X					X			
9	BC06705	MMW-37H	APCO-MIR-AP-MMW-37H	APCO_Miller_AshPond				GM	G	3/17/2022	10:49	1	X					X			
10																					
11																					
12																					

RELINQUISHED BY / ATTESTATION	DATE	TIME	ACCEPTED BY / ATTESTATION	DATE	TIME	SAMPLE CONDITIONS
Laura Mickiff APC GTL	3/17/2022	14:40	<i>Grenshaw</i>	3/18/22	9:45	1.8
SAMPLER NAME AND SIGNATURE						
PRINT Name of SAMPLER:						
SIGNATURE of SAMPLER:						
Dallise Gentry						
DATE Signed:						
TEMP in C						
Received on ice (Y/N)						
Custody Sealed Cooler (Y/N)						
Samples Intact (Y/N)						

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: Alabama Power Company  
 Address: 744 Highway 87 GSC Bldg #8  
 Email To: lbndickit@southemco.com  
 Phone: 205-664-6197  
 Requested Due Date: Normal

Section B Required Project Information: Report To: Laura Midkiff  
 Copy To: Brooke Caton & Renee Jernigan  
 Purchase Order #: APC10755638  
 Project Name: Plant Miller Ash Pond  
 Project Number: WMMWMLAP\_1354

Section C Invoice Information: Attention: Laura Midkiff  
 Company Name: Alabama Power Co.  
 Address: 744 Highway 87 GSC Bldg #8  
 Page Owner: CCR  
 Page Project Manager: Karen Brown  
 Page Profile #: 17210

Page : 8 Of 4

ITEM #	SAMPLE ID <small>One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique</small>	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)	DATE	TIME	COLLECTED	START	# OF CONTAINERS	Preservatives			Analyses Test	EPA 9315	EPA 9320	Total Radium Sum	Total Sulfide	Residual Chlorine (Y/N)	TEMP in C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)									
															Unpreserved	NaOH+ZnAcetate	HNO3																			
1	BC08706	MW-30H	APCO-MR-AP-MW-30H	APCO_Miller_AshPond				GW	G	3/16/2022	11:10			1	X																					
2	BC08707	MW-11	APCO-MR-AP-MW-11	APCO_Miller_AshPond				GW	G	3/16/2022	13:27			1	X																					
3	BC08708	FB-5	APCO-MR-AP-FB-05	APCO_Miller_AshPond				GW	G	3/16/2022	15:50			1	X																					
4	BC08709	MW-36HR	APCO-MR-AP-MW-36HR	APCO_Miller_AshPond				GW	G	3/16/2022	16:57			1	X																					
5	BC08710	MW-31H	APCO-MR-AP-MW-31H	APCO_Miller_AshPond				GW	G	3/16/2022	19:27			1	X																					
6	BC08711	MW-12	APCO-MR-AP-MW-12	APCO_Miller_AshPond				GW	G	3/17/2022	9:40			1	X																					
7	BC08712	EB-1	APCO-MR-AP-EB-01	APCO_Miller_AshPond				GW	G	3/17/2022	10:40			1	X																					
8																																				
9																																				
10																																				
11																																				
12																																				

RELINQUISHED BY / AFFILIATION: Laura Midkiff APC GTL  
 DATE: 3/17/2022  
 TIME: 14:40

ACCEPTED BY / AFFILIATION: *Anthony Goggins*  
 DATE: 3/18/22  
 TIME: 9:45

SAMPLER NAME AND SIGNATURE: *Anthony Goggins*  
 PRINT NAME OF SAMPLER: Anthony Goggins  
 SIGNATURE OF SAMPLER: *Anthony Goggins*  
 DATE SIGNED: *3/18/22*

TEMP in C: *18*  
 Received on ice (Y/N): *Y*  
 Custody Sealed Cooler (Y/N): *Y*  
 Samples Intact (Y/N): *Y*



# 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: Alabama Power Company  
 Address: 744 Highway 87 GSC Bldg #8 Calera, AL 35040  
 Email To: lbntickit@southernco.com  
 Phone: 205-664-6197 Fax: Normal  
 Requested Due Date: Normal

Section B Required Project Information: Report To: Laura Mickitt  
 Copy To: Brooke Caton & Renee Jernigan  
 Project Name: Plant Miller Ash Pond  
 Project Number: WMMWMLAP\_1354

Section C Invoice Information: Attention: Laura Mickitt  
 Company Name: Alabama Power Co  
 Address: 744 Highway 87 GSC Bldg #8  
 Page Profile #: 17210

Page: 9 of 9

Section C Invoice Information: Attention: Laura Mickitt  
 Company Name: Alabama Power Co  
 Address: 744 Highway 87 GSC Bldg #8  
 Page Profile #: 17210

Requested/Analysis Filtered (Y/N):  
 Regulatory Agency: AL  
 State/Location: AL

ITEM #	SAMPLE ID One character per box. (A-Z, 0-9 / , -) Sample IDs must be unique	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	EPA 9315	EPA 9320	Total Radium Sum	Total Sulfide	Residual Chlorine (Y/N)
										DATE	TIME		Unpreserved	NaOH+ZnAcetate	HNO3						
1	BC08713	MW-23A	APCO-MR-AP-MW-23A	APCO_Miller_AshPond				GW	G	3/16/2022	11:00	1	X					X			
2	BC08714	MW-22S	APCO-MR-AP-MW-22S	APCO_Miller_AshPond				GW	G	3/16/2022	13:33	1	X					X			
3	BC08715	MW-22S DUP	APCO-MR-AP-MW-22S	APCO_Miller_AshPond	X			GW	G	3/16/2022	13:33	1	X					X			
4	BC08716	MW-22I	APCO-MR-AP-MW-22I	APCO_Miller_AshPond				GW	G	3/16/2022	14:58	1	X					X			
5	BC08717	MW-22D	APCO-MR-AP-MW-22D	APCO_Miller_AshPond				GW	G	3/17/2022	11:13	1	X					X			
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS: RETRIEVED BY / AFFILIATION: Laura Mickitt APC GTL

DATE: 9/17/2022 TIME: 14:40

ACCEPTED BY / AFFILIATION: T.J. Daugherty

DATE: 9/18/22 TIME: 9:45

DATE SIGNED: 9/18/22 TIME: 9:45

TEMP in C: 1.8

Received on Ice (Y/N): Y

Custody Sealed Cooler (Y/N): Y

Samples Intact (Y/N): Y



Sample Condition Upon Receipt

1000 Riverbend Blvd., Suite F  
St. Rose, LA 70087

WO#: 20237334

PM: KHB Due Date: 03/23/22

CLIENT: 20-Alabama

Project:

Courier:  Pace Courier  Hired Courier  Fed X  UPS  DHL  USPS  Customer  Other

Custody Seal on Cooler/Box Present: [see COC]

Custody Seals intact:  Yes  No

Thermometer Used:  Therm Fisher IR 7  Therm Fisher IR 10

Type of Ice:  Wet  Blue  None

Samples on ice: [see COC]

Cooler Temperature: [see COC]

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 3/11/22 AZ

Temp must be measured from Temperature blank when present

Comments:

Temperature Blank Present??	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	1	
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2	
Chain of Custody Complete:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3	
Chain of Custody Relinquished:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4	
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5	
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6	
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7	
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8	
Filtered vol. Rec. for Diss. tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	9	
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10	
All containers received within manufacture's precautionary and/or expiration dates.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11	
All containers needing chemical preservation have been checked (except VOA, coliform, & O&G).	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12	
All containers preservation checked found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13	If No, was preservative added? <input type="checkbox"/> Yes <input type="checkbox"/> No If added record lot no.: HNO3 _____ H2SO4 _____
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14	
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	15	

Client Notification/ Resolution:

Person Contacted:

Date/Time:

Comments/ Resolution:

Samples 001-021 Received 3/11/22  
Samples 022-033 Received 3/16/22  
Samples 034-054 Received 3/18/22

May 02, 2022

Brooke Caton  
Alabama Power  
744 Highway 87  
Calera, AL 35040

RE: Project: WMWMILAP\_1354  
Pace Project No.: 30475234

Dear Brooke Caton:

Enclosed are the analytical results for sample(s) received by the laboratory on March 23, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

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

Sincerely,



Skyler C. Richmond  
skyler.richmond@pacelabs.com  
(724)850-5600  
Project Manager

Enclosures

cc: Blaine Denton, Alabama Power  
Renee Jernigan, Alabama Power  
Laura Midkiff, Alabama Power



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: WMWMILAP\_1354  
Pace Project No.: 30475234

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### **Pace Analytical Services Pennsylvania**

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601  
ANAB DOD-ELAP Rad Accreditation #: L2417  
Alabama Certification #: 41590  
Arizona Certification #: AZ0734  
Arkansas Certification  
California Certification #: 04222CA  
Colorado Certification #: PA01547  
Connecticut Certification #: PH-0694  
Delaware Certification  
EPA Region 4 DW Rad  
Florida/TNI Certification #: E87683  
Georgia Certification #: C040  
Florida: Cert E871149 SEKS WET  
Guam Certification  
Hawaii Certification  
Idaho Certification  
Illinois Certification  
Indiana Certification  
Iowa Certification #: 391  
Kansas/TNI Certification #: E-10358  
Kentucky Certification #: KY90133  
KY WW Permit #: KY0098221  
KY WW Permit #: KY0000221  
Louisiana DHH/TNI Certification #: LA180012  
Louisiana DEQ/TNI Certification #: 4086  
Maine Certification #: 2017020  
Maryland Certification #: 308  
Massachusetts Certification #: M-PA1457  
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235  
Montana Certification #: Cert0082  
Nebraska Certification #: NE-OS-29-14  
Nevada Certification #: PA014572018-1  
New Hampshire/TNI Certification #: 297617  
New Jersey/TNI Certification #: PA051  
New Mexico Certification #: PA01457  
New York/TNI Certification #: 10888  
North Carolina Certification #: 42706  
North Dakota Certification #: R-190  
Ohio EPA Rad Approval: #41249  
Oregon/TNI Certification #: PA200002-010  
Pennsylvania/TNI Certification #: 65-00282  
Puerto Rico Certification #: PA01457  
Rhode Island Certification #: 65-00282  
South Dakota Certification  
Tennessee Certification #: 02867  
Texas/TNI Certification #: T104704188-17-3  
Utah/TNI Certification #: PA014572017-9  
USDA Soil Permit #: P330-17-00091  
Vermont Dept. of Health: ID# VT-0282  
Virgin Island/PADEP Certification  
Virginia/VELAP Certification #: 460198  
Washington Certification #: C868  
West Virginia DEP Certification #: 143  
West Virginia DHHR Certification #: 9964C  
Wisconsin Approve List for Rad  
Wyoming Certification #: 8TMS-L

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30475234001	BC05078 MW-35H	Water	03/08/22 07:57	03/23/22 09:45
30475234002	BC05078 MW-35H MS	Water	03/08/22 07:57	03/23/22 09:45
30475234003	BC05078 MW-35H MSD	Water	03/08/22 07:57	03/23/22 09:45
30475234004	BC05079 MW-17H	Water	03/08/22 09:14	03/23/22 09:45
30475234005	BC05080 MW-18H	Water	03/08/22 10:38	03/23/22 09:45
30475234006	BC05081 MW-7SR	Water	03/08/22 12:48	03/23/22 09:45
30475234007	BC05082 MW-7DR	Water	03/08/22 13:46	03/23/22 09:45
30475234008	BC05083 FB-1	Water	03/08/22 14:35	03/23/22 09:45
30475234009	BC05084 MW-32H	Water	03/09/22 08:42	03/23/22 09:45
30475234010	BC05085 MW-20HS	Water	03/09/22 10:30	03/23/22 09:45
30475234011	BC05086 MW-20HS DUP	Water	03/09/22 10:30	03/23/22 09:45
30475234012	BC05087 MW-20H	Water	03/09/22 12:23	03/23/22 09:45
30475234013	BC05088 MW-9SR	Water	03/08/22 09:39	03/23/22 09:45
30475234014	BC05089 MW-9DR	Water	03/08/22 11:00	03/23/22 09:45
30475234015	BC05090 MW-16	Water	03/08/22 13:25	03/23/22 09:45
30475234016	BC05090 MW-16 MS	Water	03/08/22 13:25	03/23/22 09:45
30475234017	BC05090 MW-16 MSD	Water	03/08/22 13:25	03/23/22 09:45
30475234018	BC05091 MW-15	Water	03/09/22 10:09	03/23/22 09:45
30475234019	BC05092 MW-15 DUP	Water	03/09/22 10:09	03/23/22 09:45
30475234020	BC05093 MW-14R	Water	03/09/22 11:38	03/23/22 09:45
30475234021	BC05094 MW-13DR	Water	03/09/22 13:27	03/23/22 09:45
30475234022	BC05095 MW-13SR	Water	03/09/22 15:10	03/23/22 09:45
30475234023	BC05096 MW-19HA	Water	03/09/22 11:43	03/23/22 09:45
30475234024	BC05097 FB-3	Water	03/09/22 12:20	03/23/22 09:45
30475234025	BC05098 MW-34H	Water	03/09/22 14:15	03/23/22 09:45
30475234026	BC05471 MW-33H	Water	03/14/22 11:54	03/23/22 09:45
30475234027	BC05472 MW-5	Water	03/14/22 13:05	03/23/22 09:45
30475234028	BC05473 MW-5 DUP	Water	03/14/22 13:05	03/23/22 09:45
30475234029	BC05474 PZ-5	Water	03/14/22 14:58	03/23/22 09:45
30475234030	BC05475 MW-4	Water	03/15/22 08:49	03/23/22 09:45
30475234031	BC05476 MW-4V	Water	03/15/22 09:38	03/23/22 09:45
30475234032	BC05477 MW-4V DUP	Water	03/15/22 09:38	03/23/22 09:45
30475234033	BC05478 MW-27HR	Water	03/14/22 12:18	03/23/22 09:45
30475234034	BC05479 MW-28H	Water	03/14/22 14:40	03/23/22 09:45
30475234035	BC05480 FB-2	Water	03/14/22 15:45	03/23/22 09:45
30475234036	BC05481 MW-23	Water	03/15/22 09:45	03/23/22 09:45
30475234037	BC05482 MW-1	Water	03/15/22 11:10	03/23/22 09:45

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30475234038	BC05697 MW-6	Water	03/16/22 09:05	03/23/22 09:45
30475234039	BC05697 MW-6 MS	Water	03/16/22 09:05	03/23/22 09:45
30475234040	BC05697 MW-6 MSD	Water	03/16/22 09:05	03/23/22 09:45
30475234041	BC05698 MW-6V	Water	03/16/22 10:49	03/23/22 09:45
30475234042	BC05699 MW-3S	Water	03/16/22 12:42	03/23/22 09:45
30475234043	BC05700 FB-4	Water	03/16/22 13:25	03/23/22 09:45
30475234044	BC05701 MW-3D	Water	03/16/22 14:00	03/23/22 09:45
30475234045	BC05702 MW-2	Water	03/16/22 15:43	03/23/22 09:45
30475234046	BC05703 MW-10	Water	03/17/22 07:56	03/23/22 09:45
30475234047	BC05704 MW-21	Water	03/17/22 09:28	03/23/22 09:45
30475234048	BC05705 MW-37H	Water	03/17/22 10:49	03/23/22 09:45
30475234049	BC05706 MW-30H	Water	03/16/22 11:10	03/23/22 09:45
30475234050	BC05707 MW-11	Water	03/16/22 13:27	03/23/22 09:45
30475234051	BC05708 FB-5	Water	03/16/22 15:50	03/23/22 09:45
30475234052	BC05709 MW-36HR	Water	03/16/22 16:57	03/23/22 09:45
30475234053	BC05710 MW-31H	Water	03/16/22 19:27	03/23/22 09:45
30475234054	BC05711 MW-12	Water	03/17/22 09:40	03/23/22 09:45
30475234055	BC05712 EB-1	Water	03/17/22 10:40	03/23/22 09:45
30475234056	BC05713 MW-23A	Water	03/16/22 11:00	03/23/22 09:45
30475234057	BC05714 MW-22S	Water	03/16/22 13:33	03/23/22 09:45
30475234058	BC05715 MW-22S DUP	Water	03/16/22 13:33	03/23/22 09:45
30475234059	BC05716 MW-22I	Water	03/16/22 14:58	03/23/22 09:45
30475234060	BC05717 MW-22D	Water	03/17/22 11:13	03/23/22 09:45

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: WMWMLAP\_1354  
Pace Project No.: 30475234

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30475234001	BC05078 MW-35H	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30475234002	BC05078 MW-35H MS	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
30475234003	BC05078 MW-35H MSD	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
30475234004	BC05079 MW-17H	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30475234005	BC05080 MW-18H	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30475234006	BC05081 MW-7SR	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30475234007	BC05082 MW-7DR	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30475234008	BC05083 FB-1	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30475234009	BC05084 MW-32H	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30475234010	BC05085 MW-20HS	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30475234011	BC05086 MW-20HS DUP	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30475234012	BC05087 MW-20H	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30475234013	BC05088 MW-9SR	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: WMWMILAP\_1354  
Pace Project No.: 30475234

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30475234014	BC05089 MW-9DR	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30475234015	BC05090 MW-16	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30475234016	BC05090 MW-16 MS	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
30475234017	BC05090 MW-16 MSD	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
30475234018	BC05091 MW-15	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30475234019	BC05092 MW-15 DUP	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30475234020	BC05093 MW-14R	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30475234021	BC05094 MW-13DR	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30475234022	BC05095 MW-13SR	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30475234023	BC05096 MW-19HA	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30475234024	BC05097 FB-3	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30475234025	BC05098 MW-34H	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30475234026	BC05471 MW-33H	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

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### SAMPLE ANALYTE COUNT

Project: WMWMILAP\_1354

Pace Project No.: 30475234

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30475234027	BC05472 MW-5	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30475234028	BC05473 MW-5 DUP	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30475234029	BC05474 PZ-5	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30475234030	BC05475 MW-4	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30475234031	BC05476 MW-4V	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30475234032	BC05477 MW-4V DUP	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30475234033	BC05478 MW-27HR	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30475234034	BC05479 MW-28H	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30475234035	BC05480 FB-2	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30475234036	BC05481 MW-23	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30475234037	BC05482 MW-1	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30475234038	BC05697 MW-6	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30475234039	BC05697 MW-6 MS	EPA 9315	JC2	1	PASI-PA

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### SAMPLE ANALYTE COUNT

Project: WMWMLAP\_1354  
Pace Project No.: 30475234

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30475234040	BC05697 MW-6 MSD	EPA 9320	JSM	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
30475234041	BC05698 MW-6V	EPA 9320	JSM	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
30475234042	BC05699 MW-3S	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
30475234043	BC05700 FB-4	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
30475234044	BC05701 MW-3D	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
30475234045	BC05702 MW-2	EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
30475234046	BC05703 MW-10	EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
30475234047	BC05704 MW-21	EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
30475234048	BC05705 MW-37H	EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
30475234049	BC05706 MW-30H	EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
30475234050	BC05707 MW-11	EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
30475234051	BC05708 FB-5	EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
30475234052	BC05709 MW-36HR	EPA 9315	JC2	1	PASI-PA

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### SAMPLE ANALYTE COUNT

Project: WMWMILAP\_1354  
Pace Project No.: 30475234

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30475234053	BC05710 MW-31H	EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
30475234054	BC05711 MW-12	EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
30475234055	BC05712 EB-1	EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
30475234056	BC05713 MW-23A	EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
30475234057	BC05714 MW-22S	EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
30475234058	BC05715 MW-22S DUP	EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
30475234059	BC05716 MW-22I	EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
30475234060	BC05717 MW-22D	EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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## PROJECT NARRATIVE

Project: WMWMILAP\_1354

Pace Project No.: 30475234

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**Method:** EPA 9315

**Description:** 9315 Total Radium

**Client:** Alabama Power

**Date:** May 02, 2022

**General Information:**

60 samples were analyzed for EPA 9315 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

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## PROJECT NARRATIVE

Project: WMWMILAP\_1354

Pace Project No.: 30475234

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**Method:** EPA 9320

**Description:** 9320 Radium 228

**Client:** Alabama Power

**Date:** May 02, 2022

**General Information:**

60 samples were analyzed for EPA 9320 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

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## PROJECT NARRATIVE

Project: WMWMILAP\_1354

Pace Project No.: 30475234

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**Method:** Total Radium Calculation

**Description:** Total Radium 228+226

**Client:** Alabama Power

**Date:** May 02, 2022

**General Information:**

54 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05078 MW-35H**      **Lab ID: 30475234001**      Collected: 03/08/22 07:57      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.248U ± 0.172 (0.269)</b> <b>C:96% T:NA</b>	pCi/L	04/19/22 20:51	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.12 ± 0.427 (0.596)</b> <b>C:77% T:79%</b>	pCi/L	04/12/22 12:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.37 ± 0.599 (0.865)</b>	pCi/L	04/20/22 17:48	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05078 MW-35H MS**      **Lab ID: 30475234002**      Collected: 03/08/22 07:57      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>95.28 %REC ± NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	04/19/22 20:51	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>94.28 %REC ± NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	04/12/22 12:21	15262-20-1	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05078 MW-35H MSD**    **Lab ID: 30475234003**    Collected: 03/08/22 07:57    Received: 03/23/22 09:45    Matrix: Water  
PWS:    Site ID:    Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>110.27 %REC 14.59RPD ±</b> <b>NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	04/19/22 20:51	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>87.25 %REC 7.74 RPD ±</b> <b>NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	04/12/22 12:21	15262-20-1	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05079 MW-17H**      **Lab ID: 30475234004**      Collected: 03/08/22 09:14      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.417 ± 0.225 (0.293)</b> <b>C:92% T:NA</b>	pCi/L	04/19/22 20:51	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.479U ± 0.385 (0.768)</b> <b>C:74% T:87%</b>	pCi/L	04/12/22 12:21	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.896U ± 0.610 (1.06)</b>	pCi/L	04/20/22 17:48	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05080 MW-18H**      **Lab ID: 30475234005**      Collected: 03/08/22 10:38      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>-0.0661U ± 0.0750 (0.313)</b> <b>C:83% T:NA</b>	pCi/L	04/19/22 20:51	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.528U ± 0.384 (0.744)</b> <b>C:75% T:80%</b>	pCi/L	04/12/22 12:21	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.528U ± 0.459 (1.06)</b>	pCi/L	04/20/22 17:48	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05081 MW-7SR**      **Lab ID: 30475234006**      Collected: 03/08/22 12:48      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.0320U ± 0.141 (0.356)</b> <b>C:100% T:NA</b>	pCi/L	04/19/22 20:51	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.617U ± 0.369 (0.673)</b> <b>C:72% T:87%</b>	pCi/L	04/12/22 12:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.649U ± 0.510 (1.03)</b>	pCi/L	04/20/22 17:48	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05082 MW-7DR**      **Lab ID: 30475234007**      Collected: 03/08/22 13:46      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.117U ± 0.133 (0.257)</b> <b>C:100% T:NA</b>	pCi/L	04/19/22 20:51	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.146U ± 0.283 (0.622)</b> <b>C:77% T:93%</b>	pCi/L	04/12/22 12:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.263U ± 0.416 (0.879)</b>	pCi/L	04/20/22 17:48	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: BC05083 FB-1</b> <b>Lab ID: 30475234008</b> Collected: 03/08/22 14:35      Received: 03/23/22 09:45      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.110U ± 0.130 (0.255)</b> <b>C:99% T:NA</b>	pCi/L	04/19/22 20:51	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>-0.132U ± 0.303 (0.741)</b> <b>C:73% T:84%</b>	pCi/L	04/12/22 12:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.110U ± 0.433 (0.996)</b>	pCi/L	04/20/22 17:48	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05084 MW-32H**      **Lab ID: 30475234009**      Collected: 03/09/22 08:42      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.441 ± 0.219 (0.276)</b> <b>C:99% T:NA</b>	pCi/L	04/19/22 20:51	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.0557U ± 0.235 (0.541)</b> <b>C:77% T:91%</b>	pCi/L	04/12/22 12:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.497U ± 0.454 (0.817)</b>	pCi/L	04/20/22 17:48	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05085 MW-20HS**      **Lab ID: 30475234010**      Collected: 03/09/22 10:30      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.0360U ± 0.101 (0.250)</b> <b>C:103% T:NA</b>	pCi/L	04/19/22 18:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.291U ± 0.302 (0.623)</b> <b>C:76% T:88%</b>	pCi/L	04/12/22 12:22	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.327U ± 0.403 (0.873)</b>	pCi/L	04/20/22 17:48	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05086 MW-20HS DUP**    **Lab ID: 30475234011**    Collected: 03/09/22 10:30    Received: 03/23/22 09:45    Matrix: Water  
PWS:    Site ID:    Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.0681U ± 0.144 (0.338)</b> <b>C:99% T:NA</b>	pCi/L	04/19/22 18:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.352U ± 0.323 (0.654)</b> <b>C:76% T:87%</b>	pCi/L	04/12/22 12:22	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.420U ± 0.467 (0.992)</b>	pCi/L	04/20/22 17:48	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05087 MW-20H**      **Lab ID: 30475234012**      Collected: 03/09/22 12:23      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.0200U ± 0.120 (0.316)</b> <b>C:96% T:NA</b>	pCi/L	04/20/22 07:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.388U ± 0.345 (0.694)</b> <b>C:78% T:92%</b>	pCi/L	04/12/22 15:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.408U ± 0.465 (1.01)</b>	pCi/L	04/20/22 17:48	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05088 MW-9SR**      **Lab ID: 30475234013**      Collected: 03/08/22 09:39      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.209U ± 0.172 (0.299)</b> <b>C:100% T:NA</b>	pCi/L	04/20/22 07:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.238U ± 0.363 (0.785)</b> <b>C:77% T:89%</b>	pCi/L	04/12/22 15:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.447U ± 0.535 (1.08)</b>	pCi/L	04/20/22 17:48	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05089 MW-9DR**      **Lab ID: 30475234014**      Collected: 03/08/22 11:00      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.145U ± 0.145 (0.270)</b> <b>C:100% T:NA</b>	pCi/L	04/20/22 07:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>-0.146U ± 0.353 (0.864)</b> <b>C:71% T:84%</b>	pCi/L	04/12/22 15:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.145U ± 0.498 (1.13)</b>	pCi/L	04/20/22 17:48	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05090 MW-16**      **Lab ID: 30475234015**      Collected: 03/08/22 13:25      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.0602U ± 0.145 (0.347)</b> <b>C:94% T:NA</b>	pCi/L	04/20/22 07:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.395U ± 0.399 (0.820)</b> <b>C:68% T:88%</b>	pCi/L	04/13/22 13:15	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.455U ± 0.544 (1.17)</b>	pCi/L	04/20/22 17:48	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05090 MW-16 MS**      **Lab ID: 30475234016**      Collected: 03/08/22 13:25      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>100.25 %REC ± NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	04/20/22 09:13	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>75.43 %REC ± NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	04/13/22 13:20	15262-20-1	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05090 MW-16 MSD**      **Lab ID: 30475234017**      Collected: 03/08/22 13:25      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>96.27 %REC 4.06RPD ± NA</b> <b>(NA)</b> <b>C:NA T:NA</b>	pCi/L	04/20/22 09:13	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>87.03 %REC 14.29 RPD ±</b> <b>NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	04/13/22 13:20	15262-20-1	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05091 MW-15**      **Lab ID: 30475234018**      Collected: 03/09/22 10:09      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.150U ± 0.147 (0.273)</b> <b>C:100% T:NA</b>	pCi/L	04/20/22 07:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.237U ± 0.321 (0.687)</b> <b>C:78% T:93%</b>	pCi/L	04/12/22 15:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.387U ± 0.468 (0.960)</b>	pCi/L	04/20/22 17:48	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05092 MW-15 DUP**      **Lab ID: 30475234019**      Collected: 03/09/22 10:09      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.182U ± 0.184 (0.363)</b> <b>C:97% T:NA</b>	pCi/L	04/20/22 07:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>-0.0987U ± 0.325 (0.778)</b> <b>C:75% T:91%</b>	pCi/L	04/12/22 15:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.182U ± 0.509 (1.14)</b>	pCi/L	04/20/22 17:48	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: BC05093 MW-14R</b> <b>Lab ID: 30475234020</b> Collected: 03/09/22 11:38      Received: 03/23/22 09:45      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.288 ± 0.188 (0.268)</b> <b>C:91% T:NA</b>	pCi/L	04/20/22 07:38	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.129U ± 0.352 (0.787)</b> <b>C:77% T:85%</b>	pCi/L	04/12/22 15:29	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.417U ± 0.540 (1.06)</b>	pCi/L	04/20/22 17:48	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05094 MW-13DR**      **Lab ID: 30475234021**      Collected: 03/09/22 13:27      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.131U ± 0.138 (0.258)</b> <b>C:97% T:NA</b>	pCi/L	04/20/22 07:38	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.153U ± 0.335 (0.742)</b> <b>C:77% T:87%</b>	pCi/L	04/12/22 15:31	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.284U ± 0.473 (1.000)</b>	pCi/L	04/20/22 17:48	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05095 MW-13SR**      **Lab ID: 30475234022**      Collected: 03/09/22 15:10      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.655 ± 0.279 (0.307)</b> <b>C:93% T:NA</b>	pCi/L	04/20/22 07:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.623U ± 0.381 (0.708)</b> <b>C:75% T:94%</b>	pCi/L	04/12/22 15:31	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.28 ± 0.660 (1.02)</b>	pCi/L	04/20/22 17:48	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05096 MW-19HA**      **Lab ID: 30475234023**      Collected: 03/09/22 11:43      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.109U ± 0.139 (0.282)</b> <b>C:88% T:NA</b>	pCi/L	04/20/22 07:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.316U ± 0.380 (0.802)</b> <b>C:80% T:77%</b>	pCi/L	04/21/22 12:51	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.425U ± 0.519 (1.08)</b>	pCi/L	04/22/22 16:17	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05097 FB-3**      **Lab ID: 30475234024**      Collected: 03/09/22 12:20      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>-0.00192U ± 0.107 (0.303)</b> <b>C:100% T:NA</b>	pCi/L	04/20/22 09:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.126U ± 0.343 (0.773)</b> <b>C:66% T:87%</b>	pCi/L	04/13/22 13:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.126U ± 0.450 (1.08)</b>	pCi/L	04/20/22 17:48	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05098 MW-34H**      **Lab ID: 30475234025**      Collected: 03/09/22 14:15      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.189U ± 0.166 (0.298)</b> <b>C:101% T:NA</b>	pCi/L	04/20/22 09:13	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.633U ± 0.481 (0.928)</b> <b>C:62% T:79%</b>	pCi/L	04/22/22 11:58	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.822U ± 0.647 (1.23)</b>	pCi/L	04/26/22 17:48	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05471 MW-33H**      **Lab ID: 30475234026**      Collected: 03/14/22 11:54      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.300 ± 0.196 (0.292)</b> <b>C:93% T:NA</b>	pCi/L	04/20/22 09:13	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.355U ± 0.437 (0.922)</b> <b>C:62% T:83%</b>	pCi/L	04/13/22 13:21	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.655U ± 0.633 (1.21)</b>	pCi/L	04/20/22 17:48	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05472 MW-5**      **Lab ID: 30475234027**      Collected: 03/14/22 13:05      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.0732U ± 0.126 (0.281)</b> <b>C:93% T:NA</b>	pCi/L	04/20/22 09:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.498U ± 0.498 (1.03)</b> <b>C:60% T:83%</b>	pCi/L	04/13/22 13:16	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.571U ± 0.624 (1.31)</b>	pCi/L	04/20/22 17:48	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05473 MW-5 DUP**      **Lab ID: 30475234028**      Collected: 03/14/22 13:05      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.0310U ± 0.154 (0.391)</b> <b>C:90% T:NA</b>	pCi/L	04/20/22 09:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.745U ± 0.526 (1.01)</b> <b>C:61% T:84%</b>	pCi/L	04/13/22 13:16	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.776U ± 0.680 (1.40)</b>	pCi/L	04/20/22 17:48	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05474 PZ-5**      **Lab ID: 30475234029**      Collected: 03/14/22 14:58      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.125U ± 0.142 (0.275)</b> <b>C:91% T:NA</b>	pCi/L	04/20/22 09:13	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.128U ± 0.370 (0.836)</b> <b>C:71% T:75%</b>	pCi/L	04/22/22 12:12	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.253U ± 0.512 (1.11)</b>	pCi/L	04/26/22 17:48	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05475 MW-4**      **Lab ID: 30475234030**      Collected: 03/15/22 08:49      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.158U ± 0.151 (0.270)</b> <b>C:93% T:NA</b>	pCi/L	04/20/22 09:13	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.127U ± 0.461 (1.04)</b> <b>C:59% T:83%</b>	pCi/L	04/13/22 13:16	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.285U ± 0.612 (1.31)</b>	pCi/L	04/20/22 17:48	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05476 MW-4V**      **Lab ID: 30475234031**      Collected: 03/15/22 09:38      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>-0.00807U ± 0.103 (0.303)</b> <b>C:94% T:NA</b>	pCi/L	04/20/22 09:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.496U ± 0.405 (0.804)</b> <b>C:81% T:78%</b>	pCi/L	04/13/22 13:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.496U ± 0.508 (1.11)</b>	pCi/L	04/20/22 17:48	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05477 MW-4V DUP**      **Lab ID: 30475234032**      Collected: 03/15/22 09:38      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.135U ± 0.151 (0.297)</b> <b>C:98% T:NA</b>	pCi/L	04/20/22 09:02	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.433U ± 0.452 (0.936)</b> <b>C:63% T:88%</b>	pCi/L	04/13/22 13:21	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.568U ± 0.603 (1.23)</b>	pCi/L	04/20/22 17:48	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05478 MW-27HR**      **Lab ID: 30475234033**      Collected: 03/14/22 12:18      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.154U ± 0.170 (0.335)</b> <b>C:92% T:NA</b>	pCi/L	04/20/22 09:02	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.182U ± 0.379 (0.839)</b> <b>C:69% T:85%</b>	pCi/L	04/13/22 13:19	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.336U ± 0.549 (1.17)</b>	pCi/L	04/20/22 17:48	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05479 MW-28H**      **Lab ID: 30475234034**      Collected: 03/14/22 14:40      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.219U ± 0.186 (0.318)</b> <b>C:88% T:NA</b>	pCi/L	04/20/22 09:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>-0.0891U ± 0.400 (0.959)</b> <b>C:64% T:85%</b>	pCi/L	04/13/22 13:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.219U ± 0.586 (1.28)</b>	pCi/L	04/20/22 17:48	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05480 FB-2**      **Lab ID: 30475234035**      Collected: 03/14/22 15:45      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.204U ± 0.191 (0.365)</b> <b>C:93% T:NA</b>	pCi/L	04/20/22 09:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.0874U ± 0.351 (0.801)</b> <b>C:66% T:90%</b>	pCi/L	04/13/22 13:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.291U ± 0.542 (1.17)</b>	pCi/L	04/20/22 17:48	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05481 MW-23**      **Lab ID: 30475234036**      Collected: 03/15/22 09:45      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>5.34 ± 1.03 (0.331)</b> <b>C:103% T:NA</b>	pCi/L	04/20/22 09:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.62 ± 0.585 (0.817)</b> <b>C:66% T:86%</b>	pCi/L	04/13/22 13:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>6.96 ± 1.62 (1.15)</b>	pCi/L	04/20/22 17:48	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05482 MW-1**      **Lab ID: 30475234037**      Collected: 03/15/22 11:10      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.301U ± 0.225 (0.399)</b> <b>C:98% T:NA</b>	pCi/L	04/20/22 07:42	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.453U ± 0.385 (0.760)</b> <b>C:65% T:86%</b>	pCi/L	04/13/22 13:17	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.754U ± 0.610 (1.16)</b>	pCi/L	04/20/22 17:48	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05697 MW-6**      **Lab ID: 30475234038**      Collected: 03/16/22 09:05      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.199U ± 0.159 (0.258)</b> <b>C:99% T:NA</b>	pCi/L	04/20/22 09:06	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>-0.0606U ± 0.296 (0.712)</b> <b>C:71% T:88%</b>	pCi/L	04/13/22 16:31	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.199U ± 0.455 (0.970)</b>	pCi/L	04/20/22 17:47	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05697 MW-6 MS**      **Lab ID: 30475234039**      Collected: 03/16/22 09:05      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>103.04 %REC ± NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	04/20/22 09:06	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>88.77 %REC ± NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	04/13/22 16:31	15262-20-1	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05697 MW-6 MSD**      **Lab ID: 30475234040**      Collected: 03/16/22 09:05      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>95.37 %REC 7.73RPD ± NA</b> <b>(NA)</b> <b>C:NA T:NA</b>	pCi/L	04/20/22 09:06	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>84.27 %REC 5.21 RPD ±</b> <b>NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	04/13/22 16:32	15262-20-1	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05698 MW-6V**      **Lab ID: 30475234041**      Collected: 03/16/22 10:49      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.155U ± 0.151 (0.275)</b> <b>C:97% T:NA</b>	pCi/L	04/20/22 09:02	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.338U ± 0.432 (0.917)</b> <b>C:69% T:80%</b>	pCi/L	04/13/22 13:17	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.493U ± 0.583 (1.19)</b>	pCi/L	04/20/22 17:48	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05699 MW-3S**      **Lab ID: 30475234042**      Collected: 03/16/22 12:42      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.207U ± 0.182 (0.325)</b> <b>C:91% T:NA</b>	pCi/L	04/20/22 09:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>-0.151U ± 0.407 (0.987)</b> <b>C:63% T:85%</b>	pCi/L	04/13/22 13:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.207U ± 0.589 (1.31)</b>	pCi/L	04/20/22 17:48	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: BC05700 FB-4</b> <b>Lab ID: 30475234043</b> Collected: 03/16/22 13:25      Received: 03/23/22 09:45      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.382 ± 0.221 (0.303)</b> <b>C:97% T:NA</b>	pCi/L	04/20/22 09:02	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.334U ± 0.433 (0.920)</b> <b>C:59% T:92%</b>	pCi/L	04/13/22 13:18	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.716U ± 0.654 (1.22)</b>	pCi/L	04/20/22 17:48	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05701 MW-3D**      **Lab ID: 30475234044**      Collected: 03/16/22 14:00      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.0224U ± 0.0977 (0.258)</b> <b>C:101% T:NA</b>	pCi/L	04/20/22 09:06	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.235U ± 0.359 (0.777)</b> <b>C:72% T:91%</b>	pCi/L	04/13/22 16:32	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.257U ± 0.457 (1.04)</b>	pCi/L	04/20/22 17:47	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05702 MW-2**      **Lab ID: 30475234045**      Collected: 03/16/22 15:43      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.186U ± 0.160 (0.276)</b> <b>C:97% T:NA</b>	pCi/L	04/20/22 09:06	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.403U ± 0.405 (0.820)</b> <b>C:64% T:87%</b>	pCi/L	04/13/22 16:32	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.589U ± 0.565 (1.10)</b>	pCi/L	04/20/22 17:47	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05703 MW-10**      **Lab ID: 30475234046**      Collected: 03/17/22 07:56      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.173U ± 0.161 (0.296)</b> <b>C:97% T:NA</b>	pCi/L	04/20/22 09:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.0586U ± 0.326 (0.746)</b> <b>C:73% T:90%</b>	pCi/L	04/13/22 16:32	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.232U ± 0.487 (1.04)</b>	pCi/L	04/20/22 17:47	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05704 MW-21**      **Lab ID: 30475234047**      Collected: 03/17/22 09:28      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.467 ± 0.221 (0.252)</b> <b>C:96% T:NA</b>	pCi/L	04/20/22 09:03	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.233U ± 0.344 (0.742)</b> <b>C:68% T:93%</b>	pCi/L	04/13/22 16:33	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.700U ± 0.565 (0.994)</b>	pCi/L	04/20/22 17:47	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05705 MW-37H**      **Lab ID: 30475234048**      Collected: 03/17/22 10:49      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.173U ± 0.156 (0.273)</b> <b>C:94% T:NA</b>	pCi/L	04/20/22 09:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>-0.0613U ± 0.340 (0.811)</b> <b>C:66% T:88%</b>	pCi/L	04/13/22 16:33	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.173U ± 0.496 (1.08)</b>	pCi/L	04/20/22 17:47	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05706 MW-30H**      **Lab ID: 30475234049**      Collected: 03/16/22 11:10      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.241U ± 0.171 (0.242)</b> <b>C:91% T:NA</b>	pCi/L	04/20/22 09:03	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.298U ± 0.412 (0.881)</b> <b>C:62% T:85%</b>	pCi/L	04/13/22 16:33	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.539U ± 0.583 (1.12)</b>	pCi/L	04/20/22 17:47	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05707 MW-11**      **Lab ID: 30475234050**      Collected: 03/16/22 13:27      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.130U ± 0.160 (0.332)</b> <b>C:99% T:NA</b>	pCi/L	04/20/22 09:06	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.449U ± 0.364 (0.722)</b> <b>C:70% T:91%</b>	pCi/L	04/13/22 16:33	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.579U ± 0.524 (1.05)</b>	pCi/L	04/20/22 17:47	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: BC05708 FB-5</b> <b>Lab ID: 30475234051</b> Collected: 03/16/22 15:50      Received: 03/23/22 09:45      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.00497U ± 0.0987 (0.278)</b> <b>C:96% T:NA</b>	pCi/L	04/20/22 09:03	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>-0.259U ± 0.294 (0.761)</b> <b>C:66% T:90%</b>	pCi/L	04/13/22 16:33	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.00497U ± 0.393 (1.04)</b>	pCi/L	04/20/22 17:47	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05709 MW-36HR**      **Lab ID: 30475234052**      Collected: 03/16/22 16:57      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.210U ± 0.184 (0.345)</b> <b>C:97% T:NA</b>	pCi/L	04/20/22 09:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.207U ± 0.379 (0.830)</b> <b>C:64% T:86%</b>	pCi/L	04/13/22 16:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.417U ± 0.563 (1.18)</b>	pCi/L	04/20/22 17:47	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05710 MW-31H**      **Lab ID: 30475234053**      Collected: 03/16/22 19:27      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.0477U ± 0.117 (0.282)</b> <b>C:98% T:NA</b>	pCi/L	04/20/22 09:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.653U ± 0.414 (0.757)</b> <b>C:63% T:87%</b>	pCi/L	04/13/22 16:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.701U ± 0.531 (1.04)</b>	pCi/L	04/20/22 17:47	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05711 MW-12**      **Lab ID: 30475234054**      Collected: 03/17/22 09:40      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.204U ± 0.170 (0.280)</b> <b>C:92% T:NA</b>	pCi/L	04/20/22 09:08	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.452U ± 0.381 (0.760)</b> <b>C:67% T:90%</b>	pCi/L	04/13/22 16:34	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.656U ± 0.551 (1.04)</b>	pCi/L	04/20/22 17:47	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05712 EB-1**      **Lab ID: 30475234055**      Collected: 03/17/22 10:40      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.126U ± 0.160 (0.333)</b> <b>C:96% T:NA</b>	pCi/L	04/20/22 09:08	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.0930U ± 0.370 (0.839)</b> <b>C:68% T:90%</b>	pCi/L	04/13/22 16:34	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.219U ± 0.530 (1.17)</b>	pCi/L	04/20/22 17:47	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05713 MW-23A**      **Lab ID: 30475234056**      Collected: 03/16/22 11:00      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.729 ± 0.281 (0.249)</b> <b>C:101% T:NA</b>	pCi/L	04/20/22 08:58	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.274U ± 0.412 (0.890)</b> <b>C:69% T:80%</b>	pCi/L	04/13/22 16:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.00U ± 0.693 (1.14)</b>	pCi/L	04/20/22 17:47	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05714 MW-22S**      **Lab ID: 30475234057**      Collected: 03/16/22 13:33      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.160U ± 0.147 (0.250)</b> <b>C:97% T:NA</b>	pCi/L	04/20/22 08:58	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.100U ± 0.334 (0.757)</b> <b>C:66% T:88%</b>	pCi/L	04/13/22 16:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.260U ± 0.481 (1.01)</b>	pCi/L	04/20/22 17:47	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05715 MW-22S DUP**      **Lab ID: 30475234058**      Collected: 03/16/22 13:33      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.0587U ± 0.161 (0.391)</b> <b>C:96% T:NA</b>	pCi/L	04/20/22 08:58	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.747 ± 0.410 (0.726)</b> <b>C:69% T:91%</b>	pCi/L	04/13/22 16:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.806U ± 0.571 (1.12)</b>	pCi/L	04/20/22 17:47	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05716 MW-22I**      **Lab ID: 30475234059**      Collected: 03/16/22 14:58      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.0462U ± 0.107 (0.258)</b> <b>C:88% T:NA</b>	pCi/L	04/20/22 08:58	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.961 ± 0.454 (0.755)</b> <b>C:65% T:89%</b>	pCi/L	04/13/22 16:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.01U ± 0.561 (1.01)</b>	pCi/L	04/20/22 17:47	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

**Sample: BC05717 MW-22D**      **Lab ID: 30475234060**      Collected: 03/17/22 11:13      Received: 03/23/22 09:45      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.312U ± 0.216 (0.349)</b> <b>C:89% T:NA</b>	pCi/L	04/20/22 08:58	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.857 ± 0.394 (0.621)</b> <b>C:67% T:89%</b>	pCi/L	04/13/22 16:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.17 ± 0.610 (0.970)</b>	pCi/L	04/20/22 17:47	7440-14-4	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

QC Batch: 493461

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30475234001, 30475234002, 30475234003, 30475234004, 30475234005, 30475234006, 30475234007, 30475234008, 30475234009, 30475234010, 30475234011, 30475234012, 30475234013, 30475234014, 30475234018, 30475234019, 30475234020, 30475234021, 30475234022, 30475234023

METHOD BLANK: 2388003

Matrix: Water

Associated Lab Samples: 30475234001, 30475234002, 30475234003, 30475234004, 30475234005, 30475234006, 30475234007, 30475234008, 30475234009, 30475234010, 30475234011, 30475234012, 30475234013, 30475234014, 30475234018, 30475234019, 30475234020, 30475234021, 30475234022, 30475234023

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0102 ± 0.0405 (0.134) C:94% T:NA	pCi/L	04/19/22 20:51	

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## QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWMILAP\_1354  
Pace Project No.: 30475234

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QC Batch:	493462	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30475234015, 30475234016, 30475234017, 30475234024, 30475234025, 30475234026, 30475234027, 30475234028, 30475234029, 30475234030, 30475234031, 30475234032, 30475234033, 30475234034, 30475234035, 30475234036, 30475234037, 30475234041, 30475234042, 30475234043

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METHOD BLANK: 2388004 Matrix: Water

Associated Lab Samples: 30475234015, 30475234016, 30475234017, 30475234024, 30475234025, 30475234026, 30475234027, 30475234028, 30475234029, 30475234030, 30475234031, 30475234032, 30475234033, 30475234034, 30475234035, 30475234036, 30475234037, 30475234041, 30475234042, 30475234043

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0418 ± 0.0655 (0.142) C:92% T:NA	pCi/L	04/20/22 07:28	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

QC Batch: 493464

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30475234038, 30475234039, 30475234040, 30475234044, 30475234045, 30475234046, 30475234047, 30475234048, 30475234049, 30475234050, 30475234051, 30475234052, 30475234053, 30475234054, 30475234055, 30475234056, 30475234057, 30475234058, 30475234059, 30475234060

METHOD BLANK: 2388007

Matrix: Water

Associated Lab Samples: 30475234038, 30475234039, 30475234040, 30475234044, 30475234045, 30475234046, 30475234047, 30475234048, 30475234049, 30475234050, 30475234051, 30475234052, 30475234053, 30475234054, 30475234055, 30475234056, 30475234057, 30475234058, 30475234059, 30475234060

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0373 ± 0.0698 (0.160) C:90% T:NA	pCi/L	04/20/22 09:05	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

QC Batch: 494518

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30475234038, 30475234039, 30475234040, 30475234044, 30475234045, 30475234046, 30475234047, 30475234048, 30475234049, 30475234050, 30475234051, 30475234052, 30475234053, 30475234054, 30475234055, 30475234056, 30475234057, 30475234058, 30475234059, 30475234060

METHOD BLANK: 2392629

Matrix: Water

Associated Lab Samples: 30475234038, 30475234039, 30475234040, 30475234044, 30475234045, 30475234046, 30475234047, 30475234048, 30475234049, 30475234050, 30475234051, 30475234052, 30475234053, 30475234054, 30475234055, 30475234056, 30475234057, 30475234058, 30475234059, 30475234060

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0874 ± 0.315 (0.714) C:73% T:91%	pCi/L	04/13/22 16:31	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

QC Batch: 497840

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30475234023

METHOD BLANK: 2409451

Matrix: Water

Associated Lab Samples: 30475234023

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.353 ± 0.329 (0.671) C:79% T:84%	pCi/L	04/21/22 12:51	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

QC Batch: 494516

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30475234015, 30475234016, 30475234017, 30475234024, 30475234026, 30475234027, 30475234028, 30475234030, 30475234031, 30475234032, 30475234033, 30475234034, 30475234035, 30475234036, 30475234037, 30475234041, 30475234042, 30475234043

METHOD BLANK: 2392624

Matrix: Water

Associated Lab Samples: 30475234015, 30475234016, 30475234017, 30475234024, 30475234026, 30475234027, 30475234028, 30475234030, 30475234031, 30475234032, 30475234033, 30475234034, 30475234035, 30475234036, 30475234037, 30475234041, 30475234042, 30475234043

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.491 ± 0.392 (0.774) C:68% T:95%	pCi/L	04/13/22 13:20	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

QC Batch: 494514

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30475234001, 30475234002, 30475234003, 30475234004, 30475234005, 30475234006, 30475234007, 30475234008, 30475234009, 30475234010, 30475234011, 30475234012, 30475234013, 30475234014, 30475234018, 30475234019, 30475234020, 30475234021, 30475234022

METHOD BLANK: 2392622

Matrix: Water

Associated Lab Samples: 30475234001, 30475234002, 30475234003, 30475234004, 30475234005, 30475234006, 30475234007, 30475234008, 30475234009, 30475234010, 30475234011, 30475234012, 30475234013, 30475234014, 30475234018, 30475234019, 30475234020, 30475234021, 30475234022

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.404 ± 0.311 (0.607) C:77% T:90%	pCi/L	04/12/22 12:21	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWMILAP\_1354

Pace Project No.: 30475234

QC Batch: 497375

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30475234025, 30475234029

METHOD BLANK: 2407530

Matrix: Water

Associated Lab Samples: 30475234025, 30475234029

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.174 ± 0.342 (0.754) C:74% T:82%	pCi/L	04/22/22 12:08	

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## QUALIFIERS

Project: WMWMILAP\_1354  
Pace Project No.: 30475234

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### 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\_1354

Pace Project No.: 30475234

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30475234001	BC05078 MW-35H	EPA 9315	493461		
30475234002	BC05078 MW-35H MS	EPA 9315	493461		
30475234003	BC05078 MW-35H MSD	EPA 9315	493461		
30475234004	BC05079 MW-17H	EPA 9315	493461		
30475234005	BC05080 MW-18H	EPA 9315	493461		
30475234006	BC05081 MW-7SR	EPA 9315	493461		
30475234007	BC05082 MW-7DR	EPA 9315	493461		
30475234008	BC05083 FB-1	EPA 9315	493461		
30475234009	BC05084 MW-32H	EPA 9315	493461		
30475234010	BC05085 MW-20HS	EPA 9315	493461		
30475234011	BC05086 MW-20HS DUP	EPA 9315	493461		
30475234012	BC05087 MW-20H	EPA 9315	493461		
30475234013	BC05088 MW-9SR	EPA 9315	493461		
30475234014	BC05089 MW-9DR	EPA 9315	493461		
30475234015	BC05090 MW-16	EPA 9315	493462		
30475234016	BC05090 MW-16 MS	EPA 9315	493462		
30475234017	BC05090 MW-16 MSD	EPA 9315	493462		
30475234018	BC05091 MW-15	EPA 9315	493461		
30475234019	BC05092 MW-15 DUP	EPA 9315	493461		
30475234020	BC05093 MW-14R	EPA 9315	493461		
30475234021	BC05094 MW-13DR	EPA 9315	493461		
30475234022	BC05095 MW-13SR	EPA 9315	493461		
30475234023	BC05096 MW-19HA	EPA 9315	493461		
30475234024	BC05097 FB-3	EPA 9315	493462		
30475234025	BC05098 MW-34H	EPA 9315	493462		
30475234026	BC05471 MW-33H	EPA 9315	493462		
30475234027	BC05472 MW-5	EPA 9315	493462		
30475234028	BC05473 MW-5 DUP	EPA 9315	493462		
30475234029	BC05474 PZ-5	EPA 9315	493462		
30475234030	BC05475 MW-4	EPA 9315	493462		
30475234031	BC05476 MW-4V	EPA 9315	493462		
30475234032	BC05477 MW-4V DUP	EPA 9315	493462		
30475234033	BC05478 MW-27HR	EPA 9315	493462		
30475234034	BC05479 MW-28H	EPA 9315	493462		
30475234035	BC05480 FB-2	EPA 9315	493462		
30475234036	BC05481 MW-23	EPA 9315	493462		
30475234037	BC05482 MW-1	EPA 9315	493462		
30475234038	BC05697 MW-6	EPA 9315	493464		
30475234039	BC05697 MW-6 MS	EPA 9315	493464		
30475234040	BC05697 MW-6 MSD	EPA 9315	493464		
30475234041	BC05698 MW-6V	EPA 9315	493462		
30475234042	BC05699 MW-3S	EPA 9315	493462		
30475234043	BC05700 FB-4	EPA 9315	493462		
30475234044	BC05701 MW-3D	EPA 9315	493464		
30475234045	BC05702 MW-2	EPA 9315	493464		
30475234046	BC05703 MW-10	EPA 9315	493464		

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWMLAP\_1354

Pace Project No.: 30475234

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30475234047	BC05704 MW-21	EPA 9315	493464		
30475234048	BC05705 MW-37H	EPA 9315	493464		
30475234049	BC05706 MW-30H	EPA 9315	493464		
30475234050	BC05707 MW-11	EPA 9315	493464		
30475234051	BC05708 FB-5	EPA 9315	493464		
30475234052	BC05709 MW-36HR	EPA 9315	493464		
30475234053	BC05710 MW-31H	EPA 9315	493464		
30475234054	BC05711 MW-12	EPA 9315	493464		
30475234055	BC05712 EB-1	EPA 9315	493464		
30475234056	BC05713 MW-23A	EPA 9315	493464		
30475234057	BC05714 MW-22S	EPA 9315	493464		
30475234058	BC05715 MW-22S DUP	EPA 9315	493464		
30475234059	BC05716 MW-22I	EPA 9315	493464		
30475234060	BC05717 MW-22D	EPA 9315	493464		
30475234001	BC05078 MW-35H	EPA 9320	494514		
30475234002	BC05078 MW-35H MS	EPA 9320	494514		
30475234003	BC05078 MW-35H MSD	EPA 9320	494514		
30475234004	BC05079 MW-17H	EPA 9320	494514		
30475234005	BC05080 MW-18H	EPA 9320	494514		
30475234006	BC05081 MW-7SR	EPA 9320	494514		
30475234007	BC05082 MW-7DR	EPA 9320	494514		
30475234008	BC05083 FB-1	EPA 9320	494514		
30475234009	BC05084 MW-32H	EPA 9320	494514		
30475234010	BC05085 MW-20HS	EPA 9320	494514		
30475234011	BC05086 MW-20HS DUP	EPA 9320	494514		
30475234012	BC05087 MW-20H	EPA 9320	494514		
30475234013	BC05088 MW-9SR	EPA 9320	494514		
30475234014	BC05089 MW-9DR	EPA 9320	494514		
30475234015	BC05090 MW-16	EPA 9320	494516		
30475234016	BC05090 MW-16 MS	EPA 9320	494516		
30475234017	BC05090 MW-16 MSD	EPA 9320	494516		
30475234018	BC05091 MW-15	EPA 9320	494514		
30475234019	BC05092 MW-15 DUP	EPA 9320	494514		
30475234020	BC05093 MW-14R	EPA 9320	494514		
30475234021	BC05094 MW-13DR	EPA 9320	494514		
30475234022	BC05095 MW-13SR	EPA 9320	494514		
30475234023	BC05096 MW-19HA	EPA 9320	497840		
30475234024	BC05097 FB-3	EPA 9320	494516		
30475234025	BC05098 MW-34H	EPA 9320	497375		
30475234026	BC05471 MW-33H	EPA 9320	494516		
30475234027	BC05472 MW-5	EPA 9320	494516		
30475234028	BC05473 MW-5 DUP	EPA 9320	494516		
30475234029	BC05474 PZ-5	EPA 9320	497375		
30475234030	BC05475 MW-4	EPA 9320	494516		

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWMLAP\_1354

Pace Project No.: 30475234

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30475234031	BC05476 MW-4V	EPA 9320	494516		
30475234032	BC05477 MW-4V DUP	EPA 9320	494516		
30475234033	BC05478 MW-27HR	EPA 9320	494516		
30475234034	BC05479 MW-28H	EPA 9320	494516		
30475234035	BC05480 FB-2	EPA 9320	494516		
30475234036	BC05481 MW-23	EPA 9320	494516		
30475234037	BC05482 MW-1	EPA 9320	494516		
30475234038	BC05697 MW-6	EPA 9320	494518		
30475234039	BC05697 MW-6 MS	EPA 9320	494518		
30475234040	BC05697 MW-6 MSD	EPA 9320	494518		
30475234041	BC05698 MW-6V	EPA 9320	494516		
30475234042	BC05699 MW-3S	EPA 9320	494516		
30475234043	BC05700 FB-4	EPA 9320	494516		
30475234044	BC05701 MW-3D	EPA 9320	494518		
30475234045	BC05702 MW-2	EPA 9320	494518		
30475234046	BC05703 MW-10	EPA 9320	494518		
30475234047	BC05704 MW-21	EPA 9320	494518		
30475234048	BC05705 MW-37H	EPA 9320	494518		
30475234049	BC05706 MW-30H	EPA 9320	494518		
30475234050	BC05707 MW-11	EPA 9320	494518		
30475234051	BC05708 FB-5	EPA 9320	494518		
30475234052	BC05709 MW-36HR	EPA 9320	494518		
30475234053	BC05710 MW-31H	EPA 9320	494518		
30475234054	BC05711 MW-12	EPA 9320	494518		
30475234055	BC05712 EB-1	EPA 9320	494518		
30475234056	BC05713 MW-23A	EPA 9320	494518		
30475234057	BC05714 MW-22S	EPA 9320	494518		
30475234058	BC05715 MW-22S DUP	EPA 9320	494518		
30475234059	BC05716 MW-22I	EPA 9320	494518		
30475234060	BC05717 MW-22D	EPA 9320	494518		
30475234001	BC05078 MW-35H	Total Radium Calculation	498839		
30475234004	BC05079 MW-17H	Total Radium Calculation	498839		
30475234005	BC05080 MW-18H	Total Radium Calculation	498839		
30475234006	BC05081 MW-7SR	Total Radium Calculation	498839		
30475234007	BC05082 MW-7DR	Total Radium Calculation	498839		
30475234008	BC05083 FB-1	Total Radium Calculation	498839		
30475234009	BC05084 MW-32H	Total Radium Calculation	498839		
30475234010	BC05085 MW-20HS	Total Radium Calculation	498839		
30475234011	BC05086 MW-20HS DUP	Total Radium Calculation	498839		
30475234012	BC05087 MW-20H	Total Radium Calculation	498839		
30475234013	BC05088 MW-9SR	Total Radium Calculation	498839		
30475234014	BC05089 MW-9DR	Total Radium Calculation	498839		
30475234015	BC05090 MW-16	Total Radium Calculation	498843		
30475234018	BC05091 MW-15	Total Radium Calculation	498839		
30475234019	BC05092 MW-15 DUP	Total Radium Calculation	498839		
30475234020	BC05093 MW-14R	Total Radium Calculation	498839		

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWMLAP\_1354

Pace Project No.: 30475234

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30475234021	BC05094 MW-13DR	Total Radium Calculation	498839		
30475234022	BC05095 MW-13SR	Total Radium Calculation	498839		
30475234023	BC05096 MW-19HA	Total Radium Calculation	499467		
30475234024	BC05097 FB-3	Total Radium Calculation	498843		
30475234025	BC05098 MW-34H	Total Radium Calculation	500202		
30475234026	BC05471 MW-33H	Total Radium Calculation	498843		
30475234027	BC05472 MW-5	Total Radium Calculation	498843		
30475234028	BC05473 MW-5 DUP	Total Radium Calculation	498843		
30475234029	BC05474 PZ-5	Total Radium Calculation	500202		
30475234030	BC05475 MW-4	Total Radium Calculation	498843		
30475234031	BC05476 MW-4V	Total Radium Calculation	498843		
30475234032	BC05477 MW-4V DUP	Total Radium Calculation	498843		
30475234033	BC05478 MW-27HR	Total Radium Calculation	498843		
30475234034	BC05479 MW-28H	Total Radium Calculation	498843		
30475234035	BC05480 FB-2	Total Radium Calculation	498843		
30475234036	BC05481 MW-23	Total Radium Calculation	498843		
30475234037	BC05482 MW-1	Total Radium Calculation	498843		
30475234038	BC05697 MW-6	Total Radium Calculation	498836		
30475234041	BC05698 MW-6V	Total Radium Calculation	498843		
30475234042	BC05699 MW-3S	Total Radium Calculation	498843		
30475234043	BC05700 FB-4	Total Radium Calculation	498843		
30475234044	BC05701 MW-3D	Total Radium Calculation	498836		
30475234045	BC05702 MW-2	Total Radium Calculation	498836		
30475234046	BC05703 MW-10	Total Radium Calculation	498836		
30475234047	BC05704 MW-21	Total Radium Calculation	498836		
30475234048	BC05705 MW-37H	Total Radium Calculation	498836		
30475234049	BC05706 MW-30H	Total Radium Calculation	498836		
30475234050	BC05707 MW-11	Total Radium Calculation	498836		
30475234051	BC05708 FB-5	Total Radium Calculation	498836		
30475234052	BC05709 MW-36HR	Total Radium Calculation	498836		
30475234053	BC05710 MW-31H	Total Radium Calculation	498836		
30475234054	BC05711 MW-12	Total Radium Calculation	498836		
30475234055	BC05712 EB-1	Total Radium Calculation	498836		
30475234056	BC05713 MW-23A	Total Radium Calculation	498836		
30475234057	BC05714 MW-22S	Total Radium Calculation	498836		
30475234058	BC05715 MW-22S DUP	Total Radium Calculation	498836		
30475234059	BC05716 MW-22I	Total Radium Calculation	498836		
30475234060	BC05717 MW-22D	Total Radium Calculation	498836		

## REPORT OF LABORATORY ANALYSIS

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WO#: 30475234



**CHAIN-OF-CUSTODY / Analytical Request**  
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<b>Section A</b>		<b>Section B</b>		<b>Section C</b>	
<b>Required Client Information:</b>		<b>Required Project Information:</b>		<b>Invoice Information:</b>	
Company: Alabama Power Company	Report To: Laura Midkiff	Attention: Laura Midkiff	Company Name: Alabama Power Co.		
Address: 744 Highway 87 GSC Bldg #8	Copy To: Brooke Caton & Renee Jernigan	Address: 744 Highway 87 GSC Bldg #8	Regulatory Agency		
Calera, AL 35040		Purchase Order #: APC10755638	CCR		
Email To: lbmidkiff@southernco.com		Project Name: Plant Miller Ash Pond	Skyler Richmond		
Phone: 205-564-6197   Fax:		Project Number: VMWMLAP_1354	State / Location: AL		
Requested Due Date: Normal		Matrix Spike/Matrix Spike Duplicate	13805		

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)
									DATE	TIME				DATE	TIME	
1	MW-35H	APCO-MR-AP-MW-35H	APCO_Miller_AshPond	X			GW	G	3/8/2022	7:57	3			X	X	001,002,003
2	MW-17H	APCO-MR-AP-MW-17H	APCO_Miller_AshPond				GW	G	3/8/2022	9:14	1			X	X	004
3	MW-18H	APCO-MR-AP-MW-18H	APCO_Miller_AshPond				GW	G	3/8/2022	10:38	1			X	X	005
4	MW-7SR	APCO-MR-AP-MW-7SR	APCO_Miller_AshPond				GW	G	3/8/2022	12:48	1			X	X	006
5	MW-7DR	APCO-MR-AP-MW-7DR	APCO_Miller_AshPond				GW	G	3/8/2022	13:46	1			X	X	007
6	FB-1	APCO-MR-AP-FB-01	APCO_Miller_AshPond				GW	G	3/8/2022	14:35	1			X	X	008
7	MW-32H	APCO-MR-AP-MW-32H	APCO_Miller_AshPond				GW	G	3/8/2022	8:42	1			X	X	009
8	MW-20HS	APCO-MR-AP-MW-20HS	APCO_Miller_AshPond				GW	G	3/8/2022	10:30	1			X	X	010
9	MW-20HS DUP	APCO-MR-AP-MW-20HS	APCO_Miller_AshPond	X			GW	G	3/8/2022	10:30	1			X	X	011
10	MW-20H	APCO-MR-AP-MW-20H	APCO_Miller_AshPond				GW	G	3/8/2022	12:23	1			X	X	012
11																
12																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION		ACCEPTED BY / AFFILIATION	
	DATE	TIME	DATE	TIME
	3/18/2022	9:00	3/8/22	09:45
	Laura Midkiff/ APC GTL		ML	

<b>SAMPLER NAME AND SIGNATURE</b>	
PRINT Name of SAMPLER:	Dallas Gentry
SIGNATURE of SAMPLER:	
DATE Signed:	

TEMP In C	Received on	Ice	Custody	Sealed	Cooler	Samples



# 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: lbmickiff@southernco.com  
 Phone: 205-664-6197 | Fax:  
 Requested Due Date: Normal

**Section B**  
**Required Project Information:**  
 Report To: Laura Mickiff  
 Copy To: Brooke Caton & Renee Jernigan  
 Purchase Order #: APC10756638  
 Project Name: Plant Miller Ash Pond  
 Project Number: WMMILAP\_1354

**Section C**  
**Invoice Information:**  
 Attention: Laura Mickiff  
 Company Name: Alabama Power Co.  
 Address: 744 Highway 87 GSC Bldg #8  
 COC  
 Skyler Richmond  
 13805  
 AL  
 State / Location

ITEM #	Description	Station Name Location Code	Site Name Facility_ID	Sample Duplicate	Mark Spike/Matrix Spike Duplicate	Field Filtered	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	Unpreserved	NaOH+ZnAcetate	HNO3	Preservatives	Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	
									DATE	TIME									
1	MW-9SR	APCO-MR-AP-MW-9SR	APCO_Miller_AshPond				GW	G	3/8/2022	9:39	1								
2	MW-9DR	APCO-MR-AP-MW-9DR	APCO_Miller_AshPond				GW	G	3/8/2022	11:00	1								
3	MW-16	APCO-MR-AP-MW-16	APCO_Miller_AshPond	X			GW	G	3/8/2022	13:25	3								
4	MW-15	APCO-MR-AP-MW-15	APCO_Miller_AshPond				GW	G	3/8/2022	10:09	1								
5	MW-15 DUP	APCO-MR-AP-MW-15	APCO_Miller_AshPond	X			GW	G	3/8/2022	10:09	1								
6	MW-14R	APCO-MR-AP-MW-14R	APCO_Miller_AshPond				GW	G	3/8/2022	11:38	1								
7	MW-13DR	APCO-MR-AP-MW-13DR	APCO_Miller_AshPond				GW	G	3/8/2022	13:27	1								
8	MW-13SR	APCO-MR-AP-MW-13SR	APCO_Miller_AshPond				GW	G	3/8/2022	15:10	1								
9																			
10																			
11																			
12																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Laura Mickiff APC GTL	3/18/2022	9:00	<i>MLL SRS</i>	3-20-22	0945	

**SAMPLER NAME AND SIGNATURE**  
 PRINT Name of SAMPLER: TJ Daugherty  
 SIGNATURE of SAMPLER: *TJ Daugherty*  
 DATE Signed: *3-20-22*

**WO#: 30475234**  
 PM: SCR Due Date: 04/13/22  
 CLIENT: ALABAMA PWR

## CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section A</b> Required Client Information: Company: Alabama Power Company Address: 744 Highway 87 GSC Bldg #8 Calera, AL 35040 Email To: lbmidkiff@southernco.com Phone: 205-664-6197 [Fax: Requested Due Date: Normal	<b>Section B</b> Required Project Information: Report To: Laura Midkiff Copy To: Brooke Caton & Renee Jernigan Purchase Order #: APC10756638 Project Name: Plant Miller Ash Pond Project Number: WMMWILAP_1354	<b>Section C</b> Invoice Information: Attention: Laura Midkiff Company Name: Alabama Power Co. Address: 744 Highway 87 GSC Bldg #8 Pace Quote: COR Pace Project Manager: Skyler Richmond Pace Profile #: 13805	Regulatory Agency State / Location AL
--	--	---	---

ITEM #	Description	Station Name Location_Code	Site Name Facility_ID	Matrix Spike/Matrix Spike Duplicate	Sample Duplicate	Field Filtered	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	Requested Analysis Filtered (Y/N)				DATE	TIME	SAMPLE CONDITIONS																					
									DATE	TIME		Preservatives	Analyses Test	EPA 9315	EPA 9320				Total Radium Sum	Total Sulfide	Residual Chlorine (Y/N)																		
1	MW-19HA	APCO-MR-AP-MW-19HA	APCO_Miller_AshPond				GW	G	3/9/2022	11:43	1																												
2	FB-3	APCO-MR-AP-FB-03	APCO_Miller_AshPond				GW	G	3/9/2022	12:20	1																												
3	MW-34H	APCO-MR-AP-MW-34H	APCO_Miller_AshPond				GW	G	3/9/2022	14:15	1																												
4																																							
5																																							
6																																							
7																																							
8																																							
9																																							
10																																							
11																																							
12																																							

ADDITIONAL COMMENTS Laura Midkiff/ APC GTL	RELINQUISHED BY / AFFILIATION DATE TIME	ACCEPTED BY / AFFILIATION DATE TIME	SAMPLE CONDITIONS
		<i>Anthony Goggins</i> Anthony Goggins	
		DATE Signed:	

SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: SIGNATURE of SAMPLER:	Received on Ice (Y/N) Sealed (Y/N) Custody (Y/N) Cooler (Y/N) Samples (Y/N) Contact (Y/N)
---	---

WO#: 30475234

PH: SCR      Due Date: 04/13/22  
 CLIENT: ALABAMA PWR

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section A</b>		<b>Section B</b>		<b>Section C</b>	
<b>Required Client Information:</b>		<b>Required Project Information:</b>		<b>Invoice Information:</b>	
Company: Alabama Power Company	Report To: Laura Midkiff	Report To: Laura Midkiff	Attention: Laura Midkiff	Company Name: Alabama Power Co.	
Address: 744 Highway 87 GSC Bldg #8	Copy To: Brooke Caton & Renee Jernigan	Address: 744 Highway 87 GSC Bldg #8	Address: 744 Highway 87 GSC Bldg #8	Regulatory Agency:	
City: Calera, AL 35040		Purchase Order #: APC10755638	CCR	State / Location:	AL
Email To: lbmidkiff@southernco.com		Project Name: Plant Miller Ash Pond	Skylar Richmond		
Phone: 205-864-6197	Fax:	Project Number: WMMMLAP_1354	13805		
Requested Due Date: Normal					

ITEM #	Description	Station Name Location Code	Site Name Facility_ID	Sample Duplicate	Mark Spike/Mark Duplicate	Field Filtered	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	Unpreserved	NaOH+ZnAcetate	HNO3	Preservatives	Y/N	Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)	
									START DATE	TIME							EPA 9315	EPA 9320	Total Radium Sum	Total Sulfide		
1	MW-33H	APCO-MR-AP-MW-33H	APCO_Miller_AshPond				GW	G	3/14/2022	11:54	1						X	X	X	X		026
2	MW-5	APCO-MR-AP-MW-5	APCO_Miller_AshPond				GW	G	3/14/2022	13:05	1						X	X	X	X		077
3	MW-5 DUP	APCO-MR-AP-MW-5	APCO_Miller_AshPond	X			GW	G	3/14/2022	13:05	1						X	X	X	X		028
4	PZ-5	APCO-MR-AP-PZ-5	APCO_Miller_AshPond				GW	G	3/14/2022	14:58	1						X	X	X	X		029
5	MW-4	APCO-MR-AP-MW-4	APCO_Miller_AshPond				GW	G	3/15/2022	8:49	1						X	X	X	X		030
6	MW-4V	APCO-MR-AP-MW-4V	APCO_Miller_AshPond				GW	G	3/15/2022	9:38	1						X	X	X	X		031
7	MW-4V DUP	APCO-MR-AP-MW-4V	APCO_Miller_AshPond	X			GW	G	3/15/2022	9:38	1						X	X	X	X		032
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Laura Midkiff APC GTL	3/18/2022	9:00	AMM SRS	3-23-2022	0945	

<b>SAMPLER NAME AND SIGNATURE</b>	
PRINT Name of SAMPLER:	Dallas Gentry
SIGNATURE OF SAMPLER:	DATE Signed:

**WO#: 30475234**

PM: SCR Due Date: 04/13/22  
CLIENT: ALABAMA PWR

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section A</b>		<b>Section B</b>		<b>Section C</b>	
<b>Required Client Information:</b>		<b>Required Project Information:</b>		<b>Invoice Information:</b>	
Company: Alabama Power Company	Report To: Laura Midkiff	Attention: Laura Midkiff	Company Name: Alabama Power Co.		
Address: 744 Highway 87 GSC Bldg #8 Calera, AL 35040	Copy To: Brooke Caton & Renee Jernigan	Address: 744 Highway 87 GSC Bldg #8 CCR			
Email To: lbmidkiff@southernco.com	Purchase Order #: APC10755638	Pace Quote: Skyler Richmond			
Phone: 205-664-6197   Fax	Project Name: Plant Miller Ash Pond	Pace Project Manager: Skyler Richmond			
Requested Due Date: Normal	Project Number: WMMWMLAP_1354	Pace Profile #: 13805			

ITEM #	Description	Station Name Location, Code	Site Name Facility, ID	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	Matrix Spike/Matrix Spike Duplicate	Field Filtered	MATRIX CODE	# OF CONTAINERS	Preservatives			Unpreserved	Analyses Test	EPA 9315	EPA 9320	Total Radium Sum	Total Sulfide	Residual Chlorine (Y/N)
				DATE	TIME						HNO3	NaOH+ZnAcetate	Y/N							
1	BC05478 MW-27HR	APCO-MR-AP-MW-27HR	APCO_Millier_AshPond	3/14/2022	12:18	G			GW	1					X	X	X			
2	BC05479 MW-28H	APCO-MR-AP-MW-28H	APCO_Millier_AshPond	3/14/2022	14:40	G			GW	1					X	X	X			
3	BC05480 FB-2	APCO-MR-AP-FB-02	APCO_Millier_AshPond	3/14/2022	15:45	G			GW	1					X	X	X			
4	BC05481 MW-23	APCO-MR-AP-MW-23	APCO_Millier_AshPond	3/15/2022	9:45	G			GW	1					X	X	X			
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

<b>ADDITIONAL COMMENTS</b>	<b>RELINQUISHED BY / AFFILIATION</b>	<b>DATE</b>	<b>TIME</b>	<b>ACCEPTED BY / AFFILIATION</b>	<b>DATE</b>	<b>TIME</b>	<b>SAMPLE CONDITIONS</b>
	Laura Midkiff APC GTL	3/18/2022	9:00	<i>LM</i>	3/22/2022	09:45	Temp in C Sealed (Y/N) Cooled (Y/N) Samples Intact (Y/N)

<b>SAMPLER NAME AND SIGNATURE</b>	
PRINT Name of SAMPLER:	T.J Daugherty
SIGNATURE of SAMPLER:	DATE Signed:

WO#: 30475234

PM: SCR Due Date: 04/13/22  
CLIENT: ALABAMA PMR

## CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section A</b> Required Client Information:	<b>Section B</b> Required Project Information:				<b>Section C</b> Invoice Information:			
Company: Alabama Power Company	Report To: Laura Midkiff	Attention: Laura Midkiff		Company Name: Alabama Power Co.		Address: 744 Highway 87 GSC Bldg #8		Regulatory Agency:
Address: 744 Highway 87 GSC Bldg #8	Copy To: Brooke Caton & Renee Jernigan	Address: 744 Highway 87 GSC Bldg #8		CCR		State / Location: AL		
City: Calera, AL 35040		Purchase Order #: APC10755638	Pace Quote: 744 Highway 87 GSC Bldg #8					
Email To: lbmidkiff@southernco.com		Project Name: Plant Miller Ash Pond	Pace Project Manager: Skyler Richmond					
Phone: 205-664-6197   Fax:		Project Number: WMMMLAP_1354	Pace Profile #: 13805					
Requested Due Date: Normal								

ITEM #	Description	Station Name Location Code	Site Name Facility_ID	Sample Duplicate	Matrix Spike/Matrix Duplicate	Field Filtered	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	Unpreserved	NaOH+ZnAcetate	HNO3	Preservatives	Requested Analysis Filtered (Y/N)				EPA 9315	EPA 9320	Total Radium Sum	Total Sulfide	Residual Chlorine (Y/N)	SAMPLE CONDITIONS											
									DATE	TIME						DATE	TIME	Y/N	DATE						TIME	TEMP in C	Received on	Sealed	Custody							
									DATE	TIME						DATE	TIME	DATE	TIME						DATE	TIME	DATE	TIME	DATE	TIME						
1	MW-1	APCO-MR-AP-MW-1	APCO_Miller_AshPond				GW	G	3/15/2022	11:10	1																									
2																																				
3																																				
4																																				
5																																				
6																																				
7																																				
8																																				
9																																				
10																																				
11																																				
12																																				

<b>ADDITIONAL COMMENTS</b>	<b>RELINQUISHED BY / AFFILIATION</b>	<b>DATE</b>	<b>TIME</b>
	Laura Midkiff/ APC GTL	3/18/2022	9:00

<b>SAMPLER NAME AND SIGNATURE</b>	
PRINT Name of SAMPLER:	Anthony Goggins
SIGNATURE of SAMPLER:	DATE Signed:

W0# 30475234

PS 3/25/22

**CHAIN-OF-CUSTODY / Analytical Request Document**

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A		Section B		Section C		Page: 7 Of 9	
Required Client Information:		Required Project Information:		Invoice Information:			
Company:	Alabama Power Company	Report To:	Laura Mickliff	Attention:	Laura Mickliff	Company Name:	Alabama Power Co.
Address:	744 Highway 87 GSC Bldg #8 Calera, AL 35040	Copy To:	Brooke Caton & Renee Jernigan	Address:	744 Highway 87 GSC Bldg #8 CCR	Regulatory Agency	
Email To:	lbmickliff@southal.ncos.com	Purchase Order #:	APC10755638	Pace Quote:	Skyler Richmond	State / Location	AL
Phone:	205-664-6197   Fax	Project Name:	Piant Miller Ash Pond	Pace Project Manager:	13805		
Requested Due Date:	Normal	Project Number:	WMVMILAP_1354	Pace Profile #:			

ITEM #	Description	Station Name Location_Code	Site Name Facility_ID	Sample Duplicate	Matrix Spike/Matrix Spike Duplicate	Field Filled	Matrix Code	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	Preservatives			EPA 9315	EPA 9320	Total Radium Sum	Total Sulfide	Residual Chlorine (Y/N)	SAMPLER NAME AND SIGNATURE	PRINT Name of SAMPLER	SIGNATURE of SAMPLER	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLER CONDITIONS												
									START	DATE		TIME	Unpreserved	NaOH+ZnAcetate															HNO3											
1	BC05697	APCO-MR-AP-MW-6	APCO_Miller_AshPond		X		GW	G	3/16/2022	9:05	3																													
2	BC05698	APCO-MR-AP-MW-6V	APCO_Miller_AshPond				GW	G	3/16/2022	10:49	1																													
3	BC05699	APCO-MR-AP-MW-3S	APCO_Miller_AshPond				GW	G	3/16/2022	12:42	1																													
4	BC05700	APCO-MR-AP-FB-04	APCO_Miller_AshPond				GW	G	3/16/2022	13:25	1																													
5	BC05701	APCO-MR-AP-MW-3D	APCO_Miller_AshPond				GW	G	3/16/2022	14:00	1																													
6	BC05702	APCO-MR-AP-MW-2	APCO_Miller_AshPond				GW	G	3/16/2022	15:43	1																													
7	BC05703	APCO-MR-AP-MW-10	APCO_Miller_AshPond				GW	G	3/17/2022	7:56	1																													
8	BC05704	APCO-MR-AP-MW-21	APCO_Miller_AshPond				GW	G	3/17/2022	9:28	1																													
9	BC05705	APCO-MR-AP-MW-37H	APCO_Miller_AshPond				GW	G	3/17/2022	10:49	1																													
10																																								
11																																								
12																																								
<table border="1"> <tr> <td colspan="2">SAMPLER NAME AND SIGNATURE</td> <td colspan="2"></td> </tr> <tr> <td colspan="2">PRINT Name of SAMPLER:</td> <td colspan="2">Dallas Gentry</td> </tr> <tr> <td colspan="2">SIGNATURE of SAMPLER:</td> <td colspan="2"></td> </tr> <tr> <td colspan="2">DATE SIGNED:</td> <td colspan="2">3/22/2022 08:45</td> </tr> </table>																									SAMPLER NAME AND SIGNATURE				PRINT Name of SAMPLER:		Dallas Gentry		SIGNATURE of SAMPLER:				DATE SIGNED:		3/22/2022 08:45	
SAMPLER NAME AND SIGNATURE																																								
PRINT Name of SAMPLER:		Dallas Gentry																																						
SIGNATURE of SAMPLER:																																								
DATE SIGNED:		3/22/2022 08:45																																						

WG# 3047 5234

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section A</b>		<b>Section B</b>		<b>Section C</b>	
Required Client Information:		Required Project Information:		Invoice Information:	
Company:	Alabama Power Company	Report To:	Laura Midkiff	Attention:	Laura Midkiff
Address:	744 Highway 87 GSC Bldg #8	Copy To:	Brooke Caton & Renee Jernigan	Company Name:	Alabama Power Co.
	Calera, AL 35040			Address:	744 Highway 87 GSC Bldg #8
Email To:	lbmidkiff@southernco.com	Purchase Order #:	APC10755638	Pace Quote:	CCR
Phone:	205-664-6197   Fax	Project Name:	Plant Miller Ash Pond	Pace Project Manager:	Skyler Richmond
Requested Due Date:	Normal	Project Number:	WMMWMLAP_1354	Pace Profile #:	13805
				State / Location:	AL
				Regulatory Agency:	

ITEM #	Description	Station Name Location, Code	Site Name Facility, ID	Sample Duplicate	Matrix Spike/Matrix Spike Duplicate	Field Filtered	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	Unpreserved	NaOH+ZnAcetate	HNO3	Preservatives	Analyses Test	EPA 9315	EPA 9320	Total Radium Sum	Total Solids	Residual Chlorine (Y/N)																						
									DATE	TIME																																	
1	BC05706 MW-30H	APCO-MR-AP-MW-30H	APCO_Miller_AshPond				GW	G	3/16/2022	11:10	1					X	X	X																									
2	BC05707 MW-11	APCO-MR-AP-MW-11	APCO_Miller_AshPond				GW	G	3/16/2022	13:27	1					X	X	X																									
3	BC05708 FB-5	APCO-MR-AP-FB-05	APCO_Miller_AshPond				GW	G	3/16/2022	15:50	1					X	X	X																									
4	BC05709 MW-36HR	APCO-MR-AP-MW-36HR	APCO_Miller_AshPond				GW	G	3/16/2022	16:57	1					X	X	X																									
5	BC05710 MW-31H	APCO-MR-AP-MW-31H	APCO_Miller_AshPond				GW	G	3/16/2022	19:27	1					X	X	X																									
6	BC05711 MW-12	APCO-MR-AP-MW-12	APCO_Miller_AshPond				GW	G	3/17/2022	9:40	1					X	X	X																									
7	BC05712 EB-1	APCO-MR-AP-EB-01	APCO_Miller_AshPond				GW	G	3/17/2022	10:40	1					X	X	X																									
8																																											
9																																											
10																																											
11																																											
12																																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Laura Midkiff / APC GTL	3/18/2022	9:00	<i>Anthony Goggins</i>	3/22/22	0445	
SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: Anthony Goggins SIGNATURE of SAMPLER: _____ DATE Signed: _____							

W0# 30475234

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section A</b> Required Client Information: Company: Alabama Power Company Address: 744 Highway 87 GSC Bldg #8 Calera, AL 35040 Email To: lbmidkiff@southernco.com Phone: 205-664-6197 Fax Requested Due Date: Normal	<b>Section B</b> Required Project Information: Report To: Laura Midkiff Copy To: Brooke Caton & Renee Jernigan Company Name: Alabama Power Co. Address: 744 Highway 87 GSC Bldg #8 CCR Purchase Order #: APC10755638 Project Name: Plant Miller Ash Pond Project Number: WMMMLAP_1354 Plant Profile #: 13805
<b>Section C</b> Invoice Information: Attention: Laura Midkiff Company Name: Alabama Power Co. Address: 744 Highway 87 GSC Bldg #8 CCR Pace Project Manager: Skyler Richmond Pace Profile #: 13805	

ITEM #	Description	Station Name Location Code	Site Name Facility ID	COLLECTED		Matrix Spike/Duplicate	Field Filtered	Matrix Code	SAMPLE TYPE (G=GRAB C=COMP)	# OF CONTAINERS	Requested Analysis Filtered (Y/N)			Residual Chrome (Y/N)
				DATE	TIME						Y/N	Y/N	Y/N	
1	BC05713 MW-23A	APCO-MR-AP-MW-23A	APCO_Miller_AshPond	3/16/2022	11:00			GW	G	1	X	X	X	056
2	BC05714 MW-22S	APCO-MR-AP-MW-22S	APCO_Miller_AshPond	3/16/2022	13:33			GW	G	1	X	X	X	057
3	BC05715 MW-22S DUP	APCO-MR-AP-MW-22S	APCO_Miller_AshPond	3/16/2022	13:33	X		GW	G	1	X	X	X	058
4	BC05716 MW-22I	APCO-MR-AP-MW-22I	APCO_Miller_AshPond	3/16/2022	14:58			GW	G	1	X	X	X	059
5	BC05717 MW-22D	APCO-MR-AP-MW-22D	APCO_Miller_AshPond	3/17/2022	11:13			GW	G	1	X	X	X	060
6														
7														
8														
9														
10														
11														
12														

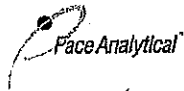
<b>ADDITIONAL COMMENTS</b> Laura Midkiff APC GTL	<b>RELINQUISHED BY / AFFILIATION</b> DATE: 3/18/2022 TIME: 9:00 ACCEPTED BY / AFFILIATION: DATE: 3/23/22 TIME: 0945 SIGNATURE: <i>Meg Sue</i>
---	---

<b>SAMPLER NAME AND SIGNATURE</b> PRINT Name of SAMPLER: SIGNATURE of SAMPLER:	T.J. Daugherty DATE Signed:
--	--------------------------------

W0# 30475234



Pittsburgh Lab Sample Condition Upon Receipt



Client Name: Alabama Power Company Project # \_\_\_\_\_

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace Other \_\_\_\_\_

Tracking #: 5701 6584 7114

Label	<u>PS</u>
LIMS Login	<u>MS</u>

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  no

Thermometer Used \_\_\_\_\_ Type of Ice: Wet Blue None

Cooler Temperature Observed Temp \_\_\_\_\_ °C Correction Factor: \_\_\_\_\_ °C Final Temp: \_\_\_\_\_ °C

Temp should be above freezing to 8°C

Comments:	pH paper Lot#			Date and Initials of person examining contents: <u>PS 3/25/22</u>
	Yes	No	N/A	
Chain of Custody Present:	<input checked="" type="checkbox"/>			1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/>			2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/>			3.
Sampler Name & Signature on COC:		<input checked="" type="checkbox"/>		4.
Sample Labels match COC: -Includes date/time/ID Matrix: <u>WT</u>	<input checked="" type="checkbox"/>			5.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/>			6.
Short Hold Time Analysis (<72hr remaining):		<input checked="" type="checkbox"/>		7.
Rush Turn Around Time Requested:		<input checked="" type="checkbox"/>		8.
Sufficient Volume:	<input checked="" type="checkbox"/>			9.
Correct Containers Used: -Pace Containers Used:	<input checked="" type="checkbox"/>			10.
Containers Intact:	<input checked="" type="checkbox"/>			11.
Orthophosphate field filtered			<input checked="" type="checkbox"/>	12.
Hex Cr Aqueous sample field filtered			<input checked="" type="checkbox"/>	13.
Organic Samples checked for dechlorination:			<input checked="" type="checkbox"/>	14.
Filtered volume received for Dissolved tests			<input checked="" type="checkbox"/>	15.
All containers have been checked for preservation. exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix	<input checked="" type="checkbox"/>			16. <u>PH &lt; 2</u>
All containers meet method preservation requirements.	<input checked="" type="checkbox"/>			Initial when completed: <u>PS</u> Date/time of preservation: _____
				Lot # of added preservative: _____
Headspace in VOA Vials (>6mm):			<input checked="" type="checkbox"/>	17.
Trip Blank Present:		<input checked="" type="checkbox"/>		18.
Trip Blank Custody Seals Present		<input checked="" type="checkbox"/>		
Rad Samples Screened < 0.5 mrem/hr	<input checked="" type="checkbox"/>			Initial when completed: <u>PS</u> Date: <u>3/25/22</u> Survey Meter SN: <u>1563</u>

**WO#: 30475234**  
 PM: SCR Due Date: 04/13/22  
 CLIENT: ALABAMA PWR

Client Notification/ Resolution:

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Contacted By: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

\*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

# Quality Control Sample Performance Assessment



**Analyst Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-228  
Analyst: JSM  
Date: 4/16/2022  
Worklist: 65885  
Matrix: VV1

Method Blank Assessment	
MB Sample ID	2392629
MB concentration:	0.087
MB 2 Sigma CSU:	0.315
MB MDC:	0.714
MB Numerical Performance Indicator:	0.54
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS/D (Y or N)?		N
	LCS65885	LCS/D65885	
Count Date:	4/13/2022		
Spike I.D.:	22-016		
Decay Corrected Spike Concentration (pCi/mL):	36.121		
Volume Used (mL):	0.10		
Aliquot Volume (L, g, F):	0.806		
Target Conc. (pCi/L, g, F):	4.479		
Uncertainty (Calculated):	0.219		
Result (pCi/L, g, F):	3.958		
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.981		
Numerical Performance Indicator:	-1.02		
Percent Recovery:	88.37%		
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
Sample Collection Date:	3/16/2022	
Sample I.D.:	30475234038	
Sample MS I.D.:	30475234039	
Sample MSD I.D.:	30475234040	
Spike I.D.:	22-016	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	36.460	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.818	
MS Aliquot (L, g, F):	8.920	
MS Target Conc. (pCi/L, g, F):	8.920	
MSD Aliquot (L, g, F):	8.920	
MSD Target Conc. (pCi/L, g, F):	8.920	
MS Spike Uncertainty (calculated):	0.437	
MSD Spike Uncertainty (calculated):	0.436	
Sample Result:	-0.061	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.296	
Sample Matrix Spike Result:	7.858	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.644	
Sample Matrix Spike Duplicate Result:	7.442	
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.583	
MS Numerical Performance Indicator:	-1.137	
MSD Numerical Performance Indicator:	-1.646	
MS Percent Recovery:	88.77%	
MSD Percent Recovery:	84.27%	
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%	

Duplicate Sample Assessment	Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D.:	30475234038
Duplicate Sample I.D.:	30475234039
Sample Result (pCi/L, g, F):	7.858
Sample Duplicate Result (pCi/L, g, F):	1.644
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	7.442
Are sample and/or duplicate results below RL?	1.583
Duplicate Numerical Performance Indicator:	0.357
Duplicate RPD:	5.21%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	3/16/2022	
Sample I.D.:	30475234038	
Sample MS I.D.:	30475234039	
Sample MSD I.D.:	30475234040	
Spike I.D.:	22-016	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	36.460	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.818	
MS Aliquot (L, g, F):	8.920	
MS Target Conc. (pCi/L, g, F):	8.920	
MSD Aliquot (L, g, F):	8.920	
MSD Target Conc. (pCi/L, g, F):	8.920	
MS Spike Uncertainty (calculated):	0.437	
MSD Spike Uncertainty (calculated):	0.436	
Sample Result:	-0.061	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.296	
Sample Matrix Spike Result:	7.858	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.644	
Sample Matrix Spike Duplicate Result:	7.442	
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.583	
MS Numerical Performance Indicator:	-1.137	
MSD Numerical Performance Indicator:	-1.646	
MS Percent Recovery:	88.77%	
MSD Percent Recovery:	84.27%	
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%	

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

Comments:

*Handwritten signature*

*Handwritten signature*

# Quality Control Sample Performance Assessment



Analyst **Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-226  
Analyst: JC2  
Date: 3/29/2022  
Worklist: 65797  
Matrix: DW

Method Blank Assessment	
MB Sample ID	2388003
MB Concentration:	-0.010
MB Counting Uncertainty:	0.040
MB MDC:	0.134
MB Numerical Performance Indicator:	-0.49
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS (Y or N)?	
	LCS65797	LCS065797
Count Date:	4/20/2022	4/20/2022
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.028	24.028
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.508	0.508
Target Conc. (pCi/L, g, F):	4.712	4.729
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	4.966	4.747
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.461	0.464
Numerical Performance Indicator:	1.07	0.07
Percent Recovery:	105.40%	100.37%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment	
Sample I.D.:	LCS65797
Duplicate Sample I.D.:	LCS065797
Sample Result (pCi/L, g, F):	4.966
Sample Duplicate Result (pCi/L, g, F):	0.461
Sample Result Counting Uncertainty (pCi/L, g, F):	4.747
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.464
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	NO
Are sample and/or duplicate results below RL?	0.658
Duplicate Numerical Performance Indicator:	4.89%
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	N/A
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	25%
% RPD Limit:	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	3/8/2022	
Sample I.D.:	30475234001	
Sample MS I.D.:	30475234002	
Sample MSD I.D.:	30475234003	
Spike I.D.:	19-033	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	24.029	
Spike Volume Used in MS (mL):	0.20	
MS Aliquot (L, g, F):	0.257	
MS Target Conc. (pCi/L, g, F):	18.665	
MSD Aliquot (L, g, F):	0.253	
MSD Target Conc. (pCi/L, g, F):	18.998	
MS Spike Uncertainty (calculated):	0.224	
MSD Spike Uncertainty (calculated):	0.228	
Sample Result:	0.248	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.168	
Sample Matrix Spike Result:	18.032	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.239	
Sample Matrix Spike Duplicate Result:	21.197	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.340	
MS Numerical Performance Indicator:	-1.360	
MSD Numerical Performance Indicator:	2.793	
MS Percent Recovery:	95.28%	
MSD Percent Recovery:	110.27%	
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.:	30475234001
Sample MS I.D.:	30475234002
Sample MSD I.D.:	30475234003
Spike I.D.:	18.032
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.239
Sample Matrix Spike Duplicate Result:	21.197
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.340
Duplicate Numerical Performance Indicator:	-3.401
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	14.59%
MS/MSD Duplicate Status vs Numerical Indicator:	N/A
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

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

Comments:

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4/20/2022

# Quality Control Sample Performance Assessment



**Analyst Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-228  
Analyst: VAL  
Date: 4/5/2022  
Worklist: 65882  
Matrix: WI

Method Blank Assessment	
MB Sample ID	2392622
MB concentration:	0.404
M/B 2 Sigma CSU:	0.311
MB MIDC:	0.607
MB Numerical Performance Indicator:	2.54
MB Status vs Numerical Indicator:	Warning
MB Status vs. MIDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?		N
	LCSD	LCSD	
Count Date:	4/12/2022	LCSD65882	
Spike I.D.:	22-016		
Decay Corrected Spike Concentration (pCi/mL):	36.133		
Volume Used (mL):	0.10		
Aliquot Volume (L, g, F):	0.816		
Target Conc. (pCi/L, g, F):	4.430		
Uncertainty (Calculated):	0.217		
Result (pCi/L, g, F):	3.670		
LCSD/LCSD 2 Sigma CSU (pCi/L, g, F):	0.896		
Numerical Performance Indicator:	-1.62		
Percent Recovery:	82.83%		
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 LCSD/LCSD in the space below.
Sample I.D.:	
Duplicate Sample I.D.:	
Sample Result (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 MIDC.

Comments:

*Analyst*

*OK*

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	3/8/2022	
Sample I.D.:	30475234001	
Sample MS I.D.:	30475234002	
Sample MSD I.D.:	30475234003	
Spike I.D.:	22-016	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	36.557	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.818	
MS Target Conc. (pCi/L, g, F):	8.942	
MSD Aliquot (L, g, F):	0.812	
MSD Target Conc. (pCi/L, g, F):	9.001	
MS Spike Uncertainty (calculated):	0.438	
MSD Spike Uncertainty (calculated):	0.441	
Sample Result:	1.121	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.427	
Sample Matrix Spike Result:	9.551	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.907	
Sample Matrix Spike Duplicate Result:	8.975	
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.791	
MS Numerical Performance Indicator:	-0.501	
MSD Numerical Performance Indicator:	-1.188	
MS Percent Recovery:	94.28%	
MSD Percent Recovery:	87.25%	
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.:	30475234001
Sample MS I.D.:	30475234002
Sample MSD I.D.:	30475234003
Matrix Spike Result:	9.551
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.907
Sample Matrix Spike Duplicate Result:	8.975
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.791
Duplicate Numerical Performance Indicator:	0.432
Duplicate Numerical Performance Indicator (Based on the Percent Recoveries) MS/MSD Duplicate RPD:	7.74%
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: JC2  
Date: 3/29/2022  
Worklist: 65798  
Matrix: DW

Method Blank Assessment	
MB Sample ID	2388004
MB Concentration:	0.042
M/B Counting Uncertainty:	0.065
MB MDC:	0.142
MB Numerical Performance Indicator:	1.26
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS/D (Y or N)?	
	LCS65798	Y
Count Date:	4/20/2022	LCS65798
Spike I.D.:	19-033	4/20/2022
Decay Corrected Spike Concentration (pCi/mL):	24.028	19-033
Volume Used (mL):	0.10	24.028
Aliquot Volume (L, g, F):	0.505	0.10
Target Conc. (pCi/L, g, F):	4.761	0.505
Uncertainty (Calculated):	0.057	4.773
Result (pCi/L, g, F):	4.867	0.057
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.470	4.761
Numerical Performance Indicator:	0.44	0.462
Percent Recovery:	102.21%	-0.05
Status vs Numerical Indicator:	N/A	99.76%
Status vs Recovery:	Pass	N/A
Upper % Recovery Limits:	125%	Pass
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment	LCS65798
Sample I.D.:	LCS65798
Duplicate Sample I.D.:	4.867
Sample Result (pCi/L, g, F):	0.470
Sample Duplicate Result (pCi/L, g, F):	4.761
Sample Result Counting Uncertainty (pCi/L, g, F):	0.462
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	NO
Are sample and/or duplicate results below RL?	0.314
Duplicate Numerical Performance Indicator:	2.43%
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	N/A
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

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

Comments:

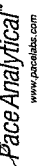
Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	3/8/2022	
Sample I.D.:	30475234015	
Sample MS I.D.:	30475234016	
Sample MSD I.D.:	30475234017	
Spike I.D.:	19-033	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	24.028	
Spike Volume Used in MS (mL):	0.20	
MS Aliquot (L, g, F):	0.251	
MS Target Conc. (pCi/L, g, F):	19.112	
MSD Aliquot (L, g, F):	0.253	
MSD Target Conc. (pCi/L, g, F):	18.966	
MS Spike Uncertainty (calculated):	0.229	
MSD Spike Uncertainty (calculated):	0.228	
Sample Result:	0.060	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.145	
Sample Matrix Spike Result:	19.220	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.275	
Sample Matrix Spike Duplicate Result:	18.319	
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	1.247	
MS Numerical Performance Indicator:	0.073	
MSD Numerical Performance Indicator:	-1.088	
MS Percent Recovery:	100.25%	
MSD Percent Recovery:	96.27%	
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	MS/MSD 1	MS/MSD 2
Sample I.D.:	30475234015	
Sample MS I.D.:	30475234016	
Sample MSD I.D.:	30475234017	
Spike I.D.:	19-033	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.275	
Sample Matrix Spike Duplicate Result:	18.319	
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	1.247	
Duplicate Numerical Performance Indicator:	0.991	
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	4.06%	
MS/MSD Duplicate Status vs Numerical Indicator:	N/A	
MS/MSD Duplicate Status vs RPD:	Pass	
% RPD Limit:	25%	

3/29/2022

2/10/2022

# Quality Control Sample Performance Assessment



**Analyst Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-228  
Analyst: VAL  
Date: 4/15/2022  
Worklist: 65884  
Matrix: W1

Method Blank Assessment	
MB Sample ID	2392624
MB concentration:	0.491
MB 2 Sigma CSU:	0.392
MB MDC:	0.774
MB Numerical Performance Indicator:	2.46
MB Status vs. Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCSD (Y or N)?	N
LCS65884	LCS65884
Count Date:	4/13/2022
Spike I.D.:	22-016
Decay Corrected Spike Concentration (pCi/mL):	36.122
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.811
Target Conc. (pCi/L, g, F):	4.456
Uncertainty (Calculated):	0.218
Result (pCi/L, g, F):	2.862
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.836
Numerical Performance Indicator:	-3.61
Percent Recovery:	64.24%
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 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	
Sample Collection Date:	3/8/2022
Sample I.D.:	30475234015
Sample MS I.D.:	30475234016
Sample MSD I.D.:	30475234017
Spike I.D.:	22-016
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	36.554
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	0.20
MS Aliquot (L, g, F):	0.812
MS Target Conc. (pCi/L, g, F):	9.004
MSD Aliquot (L, g, F):	0.813
MSD Target Conc. (pCi/L, g, F):	8.994
MS Spike Uncertainty (calculated):	0.441
MSD Spike Uncertainty (calculated):	0.441
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.395
Sample Matrix Spike Result:	0.399
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	7.186
Sample Matrix Spike Duplicate Result:	1.547
Sample Matrix Spike Duplicate Result:	8.222
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.724
MS Numerical Performance Indicator:	-2.617
MSD Numerical Performance Indicator:	-1.254
MS Percent Recovery:	75.43%
MSD Percent Recovery:	87.03%
MS Status vs Numerical Indicator:	Warning
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.:	30475234015
Sample MS I.D.:	30475234016
Sample MSD I.D.:	30475234017
Sample Matrix Spike Result:	7.186
Sample Matrix Spike Duplicate Result:	1.547
Sample Matrix Spike Duplicate Result:	8.222
Sample Matrix Spike Duplicate Result:	1.724
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	-0.877
Duplicate Numerical Performance Indicator:	14.29%
(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:

*April 14/22*

*AW 4/15/22*

# Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226  
Analyst: JC2  
Date: 3/29/2022  
Worklist: 65799  
Matrix: DW

Method Blank Assessment	
MB Sample ID	2388007
MB concentration:	0.037
M/B Counting Uncertainty:	0.070
MB MDC:	0.160
MB Numerical Performance Indicator:	1.05
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS (Y or N)?	
	LCS65799	Y
Count Date:	4/20/2022	LCS65799
Spike I.D.:	19-033	4/20/2022
Decay Corrected Spike Concentration (pCi/mL):	24.028	19-033
Volume Used (mL):	0.10	24.028
Aliquot Volume (L, g, F):	0.503	0.10
Target Conc. (pCi/L, g, F):	4.780	0.508
Uncertainty (Calculated):	0.057	4.727
Result (pCi/L, g, F):	4.926	0.057
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.473	4.648
Numerical Performance Indicator:	0.60	0.455
Percent Recovery:	103.05%	-0.34
Status vs Numerical Indicator:	N/A	98.33%
Status vs Recovery:	Pass	N/A
Upper % Recovery Limits:	125%	Pass
Lower % Recovery Limits:	75%	125%

Duplicate Sample Assessment	
Sample I.D.:	LCS65799
Duplicate Sample I.D.:	LCS65799
Sample Result (pCi/L, g, F):	4.926
Sample Duplicate Result (pCi/L, g, F):	0.473
Sample Duplicate Counting Uncertainty (pCi/L, g, F):	4.648
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.455
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.830
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	4.68%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

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

Comments:

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	3/16/2022	
Sample I.D.:	30475234038	
Sample MS I.D.:	30475234039	
Sample MSD I.D.:	30475234040	
Spike I.D.:	19-033	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	24.029	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.253	
MS Target Conc.(pCi/L, g, F):	19.013	
MSD Aliquot (L, g, F):	0.250	
MSD Target Conc. (pCi/L, g, F):	19.190	
MS Spike Uncertainty (calculated):	0.228	
MSD Spike Uncertainty (calculated):	0.230	
Sample Result:	0.199	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.156	
Sample Matrix Spike Result:	19.789	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.288	
Sample Matrix Spike Duplicate Result:	18.500	
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	1.242	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.859	
MS Numerical Performance Indicator:	-1.368	
MSD Numerical Performance Indicator:	103.04%	
MS Percent Recovery:	95.37%	
MSD Percent Recovery:	N/A	
MS Status vs Numerical Indicator:	N/A	
MSD Status vs Numerical Indicator:	Pass	
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.:	30475234038
Sample MS I.D.:	30475234039
Sample MSD I.D.:	30475234040
Spike I.D.:	19.789
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.288
Sample Matrix Spike Duplicate Result:	18.500
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	1.242
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.412
Duplicate Numerical Performance Indicator:	7.73%
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	N/A
MS/MSD Duplicate Status vs Numerical Indicator:	Pass
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

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3/29/2022

# Quality Control Sample Performance Assessment



**Analyst Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-228  
Analyst: JSM  
Date: 4/18/2022  
Worklist: 66136  
Matrix: WT

Method Blank Assessment	
MB Sample ID	2407530
MB concentration:	0.174
MB 2 Sigma CSU:	0.342
MB MDC:	0.754
MB Numerical Performance Indicator:	1.00
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	Count Date:	4/22/2022
Spike I.D.:	22-016	22-016
Decay Corrected Spike Concentration (pCi/mL):	36.016	36.016
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.807	0.805
Target Conc. (pCi/L, g, F):	4.465	4.473
Uncertainty (Calculated):	0.219	0.219
Result (pCi/L, g, F):	3.390	3.720
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.871	0.937
Numerical Performance Indicator:	-2.35	-1.53
Percent Recovery:	75.92%	83.18%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Duplicate Sample Assessment	Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D.:	Sample I.D.:
Duplicate Sample I.D.:	Sample MS I.D.:
Sample Result (pCi/L, g, F):	Sample MSD I.D.:
Sample Result 2 Sigma CSU (pCi/L, g, F):	Sample Matrix Spike Result:
Sample Duplicate Result (pCi/L, g, F):	Sample Matrix Spike Duplicate Result:
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):
Are sample and/or duplicate results below RL?	Duplicate Numerical Performance Indicator:
NO	Duplicate Numerical Performance Indicator:
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	(Based on the Percent Recoveries) MS/MSD Duplicate RPD:
9.12%	MS/MSD Duplicate Status vs Numerical Indicator:
Pass	MS/MSD Duplicate Status vs RPD:
Duplicate Status vs RPD:	% RPD Limit:
36%	

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

Comments:

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
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:		
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:		



# Quality Control Sample Performance Assessment



**Analyst Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-228  
Analyst: VAL  
Date: 4/19/2022  
Worklist: 66188  
Matrix: WI

Method Blank Assessment	
MB Sample ID	2409451
MB concentration:	0.353
MB 2 Sigma CSU:	0.329
MB MDC:	0.671
MB Numerical Performance Indicator:	2.10
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCSD (Y or N)?	Y
Count Date:		LCSD66188	4/21/2022
Spike I.D.:		22-016	22-016
Decay Corrected Spike Concentration (pCi/mL):		36.027	36.027
Volume Used (mL):		0.10	0.10
Aliquot Volume (L, g, F):		0.814	0.810
Target Conc. (pCi/L, g, F):		4.429	4.446
Uncertainty (Calculated):		0.217	0.218
Result (pCi/L, g, F):		4.537	4.479
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):		1.007	1.012
Numerical Performance Indicator:		0.21	0.06
Percent Recovery:		102.44%	100.74%
Status vs Numerical Indicator:		N/A	N/A
Status vs Recovery:		Pass	Pass
Upper % Recovery Limits:		135%	135%
Lower % Recovery Limits:		60%	60%

Duplicate Sample Assessment	
Sample I.D.:	LCS66188
Duplicate Sample I.D.:	LCSD66188
Sample Result (pCi/L, g, F):	4.537
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.007
Sample Duplicate Result (pCi/L, g, F):	4.479
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.012
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.079
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	1.67%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

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

Comments:

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: Sample 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: Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Sample 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:

66188  
VAL

Alabama Power General Test Laboratory  
744 County Road 87, GSC#8  
Calera, AL 35040  
(205) 664-6032 or 6171  
FAX (205) 257-1654

## ***Field Case Narrative***



### **Miller Ash Pond**

#### **2022 Additional Request (MW-10 & MW-12)**

All samples were collected using methods defined in Alabama Power's Water Field Group Low-Flow Groundwater Sampling Procedure and the associated site-specific Sampling and Analysis Plan (SAP).

Field quality control procedures were performed as follows:

- Blanks were not collected during this additional request event, per SCS. A sample duplicate was collected as described in the SAP.
- Calibration verification for all required field parameters were performed daily, before and after sample collection.

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

# *Analytical Report*



**Sample Group :** WMWMILAP\_1368

**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 13, 2022

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory on May 20, 2022. All results reported herein conform to the laboratory's most current Quality Assurance Manual. Results marked with an asterisk conform to the most current applicable TNI/NELAC requirements. Exceptions will be noted in the body of the report.

Laboratory certification ID: E571114  
Issued By: State of Florida, Department of Health  
Expiration: June 30, 2022

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

Sincerely,

Quality Control: **Brooke  
Caton**

Digitally signed by Brooke  
Caton  
Date: 2022.06.13  
15:11:54 -05'00'

Supervision: **T Durant  
Maske**

Digitally signed by T Durant Maske  
DN: cn=T Durant Maske, gm=T Durant Maske, c=US  
United States, I=US, United States  
e=tdmaske@southernco.com  
Reason: I am approving this document  
Location:  
Date: 2022-06-14 08:32:05-00



### 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.



## Case Narrative

Total Metals ICP

Miller Ash Pond

WMWMILAP\_1368

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>
BC09727	726852	WMWMILAP_1368
BC09728	726852	WMWMILAP_1368
BC09729	726852	WMWMILAP_1368

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:
    - BC09729 Calcium 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>
BC09727	Calcium	20.3
BC09728	Calcium	20.3
BC09729	Calcium	20.3

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

## Case Narrative

Total Metals ICPMS

Miller Ash Pond

WMWMILAP\_1368

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>
BC09727	727057	WMWMILAP_1368
BC09728	727057	WMWMILAP_1368
BC09729	727057	WMWMILAP_1368

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:

Revision 5

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

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for accuracy were met.
  - A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution factor.
  8. The raw data results are shown with dilution factors included.



Mercury

Miller Ash Pond

WMWMILAP\_1368

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>
BC09727	727487	WMWMILAP_1368
BC09728	727487	WMWMILAP_1368
BC09729	727487	WMWMILAP_1368

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.

Revision 5

- 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\_1368

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>
BC09727	726909	WMWMILAP_1368
BC09728	726909	WMWMILAP_1368
BC09729	726909	WMWMILAP_1368

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.

Anions

Miller Ash Pond

WMWMILAP\_1368

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>
BC09727	726884,726890,728612	WMWMILAP_1368
BC09728	726884,726890,728612	WMWMILAP_1368
BC09729	726884,726890,728612	WMWMILAP_1368

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.

## Case Narrative

- 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>
BC09727	Sulfate	50
BC09728	Sulfate	50
BC09729	Sulfate	100

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

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-10

**Location Code:** WMWMILAP  
**Collected:** 5/19/22 11:03  
**Customer ID:**  
**Submittal Date:** 5/20/22 08:50

**Laboratory ID Number:** BC09727

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	5/23/22 14:20	5/24/22 11:22		1.015	6.17	mg/L	0.030000	0.1015	
* Calcium, Total	5/23/22 14:20	5/24/22 12:29		20.3	143	mg/L	1.4007	8.12	
* Lithium, Total	5/23/22 14:20	5/24/22 11:22		1.015	0.240	mg/L	0.007105	0.01999956	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	5/20/22 11:00	5/20/22 17:12		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	5/20/22 11:00	5/20/22 17:12		1.015	0.0428	mg/L	0.000081	0.000203	
* Barium, Total	5/20/22 11:00	5/20/22 17:12		1.015	0.0185	mg/L	0.000508	0.001015	
* Beryllium, Total	5/20/22 11:00	5/20/22 17:12		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/20/22 11:00	5/20/22 17:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/20/22 11:00	5/20/22 17:12		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	5/20/22 11:00	5/20/22 17:12		1.015	0.00141	mg/L	0.000068	0.000203	
* Lead, Total	5/20/22 11:00	5/20/22 17:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	5/20/22 11:00	5/20/22 17:12		1.015	0.675	mg/L	0.000102	0.000203	
* Selenium, Total	5/20/22 11:00	5/20/22 17:12		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/20/22 11:00	5/20/22 17:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	6/3/22 12:09	6/6/22 11:17		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	5/23/22 11:40	5/24/22 13:30		1	2080	mg/L		125	
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	5/20/22 10:02	5/20/22 10:02		1	8.19	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/20/22 15:01	5/20/22 15:01		1	1.27	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/7/22 11:06	6/7/22 11:06		50	1390	mg/L	30.0	100	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	5/19/22 11:00	5/19/22 11:00			2604.34	uS/cm			FA
pH	5/19/22 11:00	5/19/22 11:00			6.99	SU			FA
Temperature	5/19/22 11:00	5/19/22 11:00			17.91	C			FA
Turbidity	5/19/22 11:00	5/19/22 11:00			2.5	NTU			FA

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

**Comments:**

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-10

**Location Code:** WMWMILAP  
**Collected:** 5/19/22 11:03  
**Customer ID:**  
**Submittal Date:** 5/20/22 08:50

**Laboratory ID Number:** BC09727

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Sulfide	5/19/22 11:00	5/19/22 11:00			0	mg/L			FA

---

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

---

**Comments:**

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 5/19/22 11:03  
**Customer ID:**  
**Delivery Date:** 5/20/22 08:50

**Description:** Miller Ash Pond - MW-10

**Laboratory ID Number:** BC09727

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC09729	Antimony, Total	mg/L	0.000388	0.00100	0.100	0.102	0.103	0.0927	0.0850 to 0.115	101	70.0 to 130	0.976	20.0
BC09729	Arsenic, Total	mg/L	0.0000158	0.000176	0.100	0.107	0.109	0.0978	0.0850 to 0.115	98.9	70.0 to 130	1.85	20.0
BC09729	Barium, Total	mg/L	-0.0000013	0.00100	0.100	0.118	0.116	0.0987	0.0850 to 0.115	102	70.0 to 130	1.71	20.0
BC09729	Beryllium, Total	mg/L	0.0000281	0.000880	0.100	0.0943	0.0975	0.105	0.0850 to 0.115	94.3	70.0 to 130	3.34	20.0
BC09729	Boron, Total	mg/L	0.000076	0.0650	1.00	7.38	7.33	0.995	0.850 to 1.15	99.0	70.0 to 130	0.680	20.0
BC09729	Cadmium, Total	mg/L	0.0000034	0.000147	0.100	0.0999	0.0990	0.0988	0.0850 to 0.115	99.8	70.0 to 130	0.905	20.0
BC09729	Calcium, Total	mg/L	0.00470	0.152	5.00	100	95.1	4.86	4.25 to 5.75	116	70.0 to 130	5.02	20.0
BC09729	Chloride	mg/L	-0.134	1.00	10.0	18.1	17.7	10.6	9.00 to 11.0	102	80.0 to 120	2.23	20.0
BC09729	Chromium, Total	mg/L	-0.0000953	0.000440	0.100	0.0935	0.0950	0.0977	0.0850 to 0.115	92.7	70.0 to 130	1.59	20.0
BC09729	Cobalt, Total	mg/L	-0.0000004	0.000147	0.100	0.101	0.102	0.103	0.0850 to 0.115	99.9	70.0 to 130	0.985	20.0
BC09729	Fluoride	mg/L	-0.0722	0.125	2.50	3.88	3.85	2.61	2.25 to 2.75	106	80.0 to 120	0.776	20.0
BC09729	Lead, Total	mg/L	0.0000068	0.000147	0.100	0.106	0.107	0.106	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BC09729	Lithium, Total	mg/L	-0.000331	0.0154	0.200	0.334	0.342	0.203	0.170 to 0.230	104	70.0 to 130	2.37	20.0
BC09729	Mercury, Total by CVAA	mg/L	6.620E-06	0.000500	0.004	0.00366	0.00364	0.00377	0.00340 to 0.00460	91.5	70.0 to 130	0.548	20.0
BC09729	Molybdenum, Total	mg/L	0.0000060	0.0002	0.100	1.14	1.17	0.103	0.0850 to 0.115	80.0	70.0 to 130	2.60	20.0
BC09729	Selenium, Total	mg/L	-0.0000265	0.00100	0.100	0.101	0.103	0.103	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BC09729	Sulfate	mg/L	-0.256	2.0	2000	3720	3630	19.1	18.0 to 22.0	110	80.0 to 120	2.45	20.0
BC09729	Thallium, Total	mg/L	-0.0000016	0.000147	0.100	0.105	0.106	0.107	0.0850 to 0.115	105	70.0 to 130	0.948	20.0

**Comments:**



## Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 5/19/22 11:03  
**Customer ID:**  
**Delivery Date:** 5/20/22 08:50

**Description:** Miller Ash Pond - MW-10

**Laboratory ID Number:** BC09727

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BC09729	Solids, Dissolved	mg/L	1.00	25.0			2360	46.0	40.0 to 60.0			0.00	10.0

---

**Comments:**

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-10 Dup

**Location Code:** WMWMILAP  
**Collected:** 5/19/22 11:03  
**Customer ID:**  
**Submittal Date:** 5/20/22 08:50

**Laboratory ID Number:** BC09728

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	5/23/22 14:20	5/24/22 11:25		1.015	6.12	mg/L	0.030000	0.1015	
* Calcium, Total	5/23/22 14:20	5/24/22 12:32		20.3	145	mg/L	1.4007	8.12	
* Lithium, Total	5/23/22 14:20	5/24/22 11:25		1.015	0.235	mg/L	0.007105	0.01999956	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	5/20/22 11:00	5/20/22 17:16		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	5/20/22 11:00	5/20/22 17:16		1.015	0.0425	mg/L	0.000081	0.000203	
* Barium, Total	5/20/22 11:00	5/20/22 17:16		1.015	0.0191	mg/L	0.000508	0.001015	
* Beryllium, Total	5/20/22 11:00	5/20/22 17:16		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/20/22 11:00	5/20/22 17:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/20/22 11:00	5/20/22 17:16		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	5/20/22 11:00	5/20/22 17:16		1.015	0.00143	mg/L	0.000068	0.000203	
* Lead, Total	5/20/22 11:00	5/20/22 17:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	5/20/22 11:00	5/20/22 17:16		1.015	0.687	mg/L	0.000102	0.000203	
* Selenium, Total	5/20/22 11:00	5/20/22 17:16		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/20/22 11:00	5/20/22 17:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	6/3/22 12:09	6/6/22 11:19		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	5/23/22 11:40	5/24/22 13:30		1	2060	mg/L		125	
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	5/20/22 10:03	5/20/22 10:03		1	8.04	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/20/22 15:02	5/20/22 15:02		1	1.24	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/7/22 11:07	6/7/22 11:07		50	1460	mg/L	30.0	100	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	5/19/22 11:00	5/19/22 11:00			2604.34	uS/cm			FA
pH	5/19/22 11:00	5/19/22 11:00			6.99	SU			FA
Temperature	5/19/22 11:00	5/19/22 11:00			17.91	C			FA
Turbidity	5/19/22 11:00	5/19/22 11:00			2.5	NTU			FA

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

**Comments:**

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-10 Dup

**Location Code:** WMWMILAP

**Collected:** 5/19/22 11:03

**Customer ID:**

**Submittal Date:** 5/20/22 08:50

**Laboratory ID Number:** BC09728

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Sulfide	5/19/22 11:00	5/19/22 11:00			0	mg/L			FA

---

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

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**Comments:**

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 5/19/22 11:03  
**Customer ID:**  
**Delivery Date:** 5/20/22 08:50

**Description:** Miller Ash Pond - MW-10 Dup

**Laboratory ID Number:** BC09728

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC09729	Antimony, Total	mg/L	0.000388	0.00100	0.100	0.102	0.103	0.0927	0.0850 to 0.115	101	70.0 to 130	0.976	20.0
BC09729	Arsenic, Total	mg/L	0.0000158	0.000176	0.100	0.107	0.109	0.0978	0.0850 to 0.115	98.9	70.0 to 130	1.85	20.0
BC09729	Barium, Total	mg/L	-0.0000013	0.00100	0.100	0.118	0.116	0.0987	0.0850 to 0.115	102	70.0 to 130	1.71	20.0
BC09729	Beryllium, Total	mg/L	0.0000281	0.000880	0.100	0.0943	0.0975	0.105	0.0850 to 0.115	94.3	70.0 to 130	3.34	20.0
BC09729	Boron, Total	mg/L	0.000076	0.0650	1.00	7.38	7.33	0.995	0.850 to 1.15	99.0	70.0 to 130	0.680	20.0
BC09729	Cadmium, Total	mg/L	0.0000034	0.000147	0.100	0.0999	0.0990	0.0988	0.0850 to 0.115	99.8	70.0 to 130	0.905	20.0
BC09729	Calcium, Total	mg/L	0.00470	0.152	5.00	100	95.1	4.86	4.25 to 5.75	116	70.0 to 130	5.02	20.0
BC09729	Chloride	mg/L	-0.134	1.00	10.0	18.1	17.7	10.6	9.00 to 11.0	102	80.0 to 120	2.23	20.0
BC09729	Chromium, Total	mg/L	-0.0000953	0.000440	0.100	0.0935	0.0950	0.0977	0.0850 to 0.115	92.7	70.0 to 130	1.59	20.0
BC09729	Cobalt, Total	mg/L	-0.0000004	0.000147	0.100	0.101	0.102	0.103	0.0850 to 0.115	99.9	70.0 to 130	0.985	20.0
BC09729	Fluoride	mg/L	-0.0722	0.125	2.50	3.88	3.85	2.61	2.25 to 2.75	106	80.0 to 120	0.776	20.0
BC09729	Lead, Total	mg/L	0.0000068	0.000147	0.100	0.106	0.107	0.106	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BC09729	Lithium, Total	mg/L	-0.000331	0.0154	0.200	0.334	0.342	0.203	0.170 to 0.230	104	70.0 to 130	2.37	20.0
BC09729	Mercury, Total by CVAA	mg/L	6.620E-06	0.000500	0.004	0.00366	0.00364	0.00377	0.00340 to 0.00460	91.5	70.0 to 130	0.548	20.0
BC09729	Molybdenum, Total	mg/L	0.0000060	0.0002	0.100	1.14	1.17	0.103	0.0850 to 0.115	80.0	70.0 to 130	2.60	20.0
BC09729	Selenium, Total	mg/L	-0.0000265	0.00100	0.100	0.101	0.103	0.103	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BC09729	Sulfate	mg/L	-0.256	2.0	2000	3720	3630	19.1	18.0 to 22.0	110	80.0 to 120	2.45	20.0
BC09729	Thallium, Total	mg/L	-0.0000016	0.000147	0.100	0.105	0.106	0.107	0.0850 to 0.115	105	70.0 to 130	0.948	20.0

**Comments:**

## Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 5/19/22 11:03  
**Customer ID:**  
**Delivery Date:** 5/20/22 08:50

**Description:** Miller Ash Pond - MW-10 Dup

**Laboratory ID Number:** BC09728

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec Rec	Limit Limit	Prec Prec	Limit Limit
BC09729	Solids, Dissolved	mg/L	1.00	25.0			2360	46.0	40.0 to 60.0			0.00	10.0

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**Comments:**

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-12

**Location Code:** WMWMILAP  
**Collected:** 5/19/22 12:37  
**Customer ID:**  
**Submittal Date:** 5/20/22 08:50

**Laboratory ID Number:** BC09729

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: RDA</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	5/23/22 14:20	5/24/22 11:28		1.015	6.39	mg/L	0.030000	0.1015	
* Calcium, Total	5/23/22 14:20	5/24/22 12:35		20.3	94.2	mg/L	1.4007	8.12	RA
* Lithium, Total	5/23/22 14:20	5/24/22 11:28		1.015	0.127	mg/L	0.007105	0.01999956	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	5/20/22 11:00	5/20/22 17:19		1.015	0.000656	mg/L	0.000508	0.001015	J
* Arsenic, Total	5/20/22 11:00	5/20/22 17:19		1.015	0.00814	mg/L	0.000081	0.000203	
* Barium, Total	5/20/22 11:00	5/20/22 17:19		1.015	0.0162	mg/L	0.000508	0.001015	
* Beryllium, Total	5/20/22 11:00	5/20/22 17:19		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/20/22 11:00	5/20/22 17:19		1.015	0.0000914	mg/L	0.000068	0.000203	J
* Chromium, Total	5/20/22 11:00	5/20/22 17:19		1.015	0.000772	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/20/22 11:00	5/20/22 17:19		1.015	0.00114	mg/L	0.000068	0.000203	
* Lead, Total	5/20/22 11:00	5/20/22 17:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	5/20/22 11:00	5/20/22 17:19		1.015	1.06	mg/L	0.000102	0.000203	
* Selenium, Total	5/20/22 11:00	5/20/22 17:19		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/20/22 11:00	5/20/22 17:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	6/3/22 12:09	6/6/22 11:22		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	5/23/22 11:40	5/24/22 13:30		1	2360	mg/L		178.6	
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	5/20/22 10:04	5/20/22 10:04		1	7.92	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/20/22 15:03	5/20/22 15:03		1	1.23	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/7/22 11:09	6/7/22 11:09		100	1510	mg/L	60.0	200	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	5/19/22 12:34	5/19/22 12:34			3182.33	uS/cm			FA
pH	5/19/22 12:34	5/19/22 12:34			6.42	SU			FA
Temperature	5/19/22 12:34	5/19/22 12:34			22.14	C			FA
Turbidity	5/19/22 12:34	5/19/22 12:34			1.65	NTU			FA

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

**Comments:**

# Certificate Of Analysis

**Description:** Miller Ash Pond - MW-12

**Location Code:** WMWMILAP  
**Collected:** 5/19/22 12:37  
**Customer ID:**  
**Submittal Date:** 5/20/22 08:50

**Laboratory ID Number:** BC09729

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Sulfide	5/19/22 12:34	5/19/22 12:34			0	mg/L			FA

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

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**Comments:**

# Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 5/19/22 12:37  
**Customer ID:**  
**Delivery Date:** 5/20/22 08:50

**Description:** Miller Ash Pond - MW-12

**Laboratory ID Number:** BC09729

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BC09729	Antimony, Total	mg/L	0.000388	0.00100	0.100	0.102	0.103	0.0927	0.0850 to 0.115	101	70.0 to 130	0.976	20.0	
BC09729	Arsenic, Total	mg/L	0.0000158	0.000176	0.100	0.107	0.109	0.0978	0.0850 to 0.115	98.9	70.0 to 130	1.85	20.0	
BC09729	Barium, Total	mg/L	-0.0000013	0.00100	0.100	0.118	0.116	0.0987	0.0850 to 0.115	102	70.0 to 130	1.71	20.0	
BC09729	Beryllium, Total	mg/L	0.0000281	0.000880	0.100	0.0943	0.0975	0.105	0.0850 to 0.115	94.3	70.0 to 130	3.34	20.0	
BC09729	Boron, Total	mg/L	0.000076	0.0650	1.00	7.38	7.33	0.995	0.850 to 1.15	99.0	70.0 to 130	0.680	20.0	
BC09729	Cadmium, Total	mg/L	0.0000034	0.000147	0.100	0.0999	0.0990	0.0988	0.0850 to 0.115	99.8	70.0 to 130	0.905	20.0	
BC09729	Calcium, Total	mg/L	0.00470	0.152	5.00	100	95.1	4.86	4.25 to 5.75	116	70.0 to 130	5.02	20.0	
BC09729	Chloride	mg/L	-0.134	1.00	10.0	18.1	17.7	10.6	9.00 to 11.0	102	80.0 to 120	2.23	20.0	
BC09729	Chromium, Total	mg/L	-0.0000953	0.000440	0.100	0.0935	0.0950	0.0977	0.0850 to 0.115	92.7	70.0 to 130	1.59	20.0	
BC09729	Cobalt, Total	mg/L	-0.0000004	0.000147	0.100	0.101	0.102	0.103	0.0850 to 0.115	99.9	70.0 to 130	0.985	20.0	
BC09729	Fluoride	mg/L	-0.0722	0.125	2.50	3.88	3.85	2.61	2.25 to 2.75	106	80.0 to 120	0.776	20.0	
BC09729	Lead, Total	mg/L	0.0000068	0.000147	0.100	0.106	0.107	0.106	0.0850 to 0.115	106	70.0 to 130	0.939	20.0	
BC09729	Lithium, Total	mg/L	-0.000331	0.0154	0.200	0.334	0.342	0.203	0.170 to 0.230	104	70.0 to 130	2.37	20.0	
BC09729	Mercury, Total by CVAA	mg/L	6.620E-06	0.000500	0.004	0.00366	0.00364	0.00377	0.00340 to 0.00460	91.5	70.0 to 130	0.548	20.0	
BC09729	Molybdenum, Total	mg/L	0.0000060	0.0002	0.100	1.14	1.17	0.103	0.0850 to 0.115	80.0	70.0 to 130	2.60	20.0	
BC09729	Selenium, Total	mg/L	-0.0000265	0.00100	0.100	0.101	0.103	0.103	0.0850 to 0.115	101	70.0 to 130	1.96	20.0	
BC09729	Sulfate	mg/L	-0.256	2.0	2000	3720	3630	19.1	18.0 to 22.0	110	80.0 to 120	2.45	20.0	
BC09729	Thallium, Total	mg/L	-0.0000016	0.000147	0.100	0.105	0.106	0.107	0.0850 to 0.115	105	70.0 to 130	0.948	20.0	

**Comments:**



## Batch QC Summary

**Customer Account:** WMWMILAP  
**Sample Date:** 5/19/22 12:37  
**Customer ID:**  
**Delivery Date:** 5/20/22 08:50

**Description:** Miller Ash Pond - MW-12

**Laboratory ID Number:** BC09729

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec Rec	Limit	Prec	Limit
BC09729	Solids, Dissolved	mg/L	1.00	25.0			2360	46.0	40.0 to 60.0			0.00	10.0

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**Comments:**

# Definitions

**Project Number:** WMWMILAP\_1368

Abbreviation	Description
DF	Dilution Factor
LCS	Lab Control Sample
LFM	Lab Fortified Matrix
MB	Method Blank
MDL	Method Detection Limit; minimum concentration of an analyte that can be determined with 99% confidence that the concentration is greater than zero.
MS	Matrix Spike
MSD	Matrix Spike Duplicate
Prec	Precision (% RPD)
Q	Qualifier; comment used to note deviations or additional information associated with analytical results.
QC	Quality Control
Rec	Recovery of Matrix Spike
RL	Reporting Limit; lowest concentration at which an analyte can be quantitatively measured.
Vio Spec	Violation Specification; regulatory limit which has been exceeded by the sample analyzed.

Qualifier	Description
FA	Field results were reviewed by the Water Field Group. Refer to APC Field Case Narrative.
J	Reported value is an estimate because concentration is less than reporting limit.
RA	Matrix spike is invalid due to sample concentration.
U	Compound was analyzed, but not detected.



# Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Collector	Dallas Gentry	Requested By	Greg Dyer
		Location	Miller Ash Pond

Bottles	1	Metals	500 mL	3	TDS	500 mL	5	N/A	N/A	7	N/A	N/A
	2	Hg	250 mL	4	Anions	250 mL	6	N/A	N/A	8	N/A	N/A

Comments: Samples relinquished to GSC Building 8 Shipping Lab 05/19/22 15:20

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-10	05/19/2022	11:03	4	Groundwater		BC09727
MW-10 dup	05/19/2022	11:03	4	Sample Duplicate		BC09728
MW-12	05/19/2022	12:37	4	Groundwater		BC09729

Relinquished By	Received By	Date/Time
	Brooke Caton <small>Digitally signed by Brooke Caton Date: 2022.05.20 08:48:25 -05'00'</small>	05/20/2022 08:48

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-20010-2-2	Cooler Temp
Sample Event	1368	Thermometer ID
		pH Strip ID

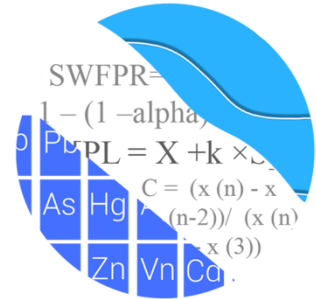
Bottles/Pre-Preserved Bottles are provided by the GTL

# Appendix D

## GROUNDWATER STATS CONSULTING

May 19, 2022

Southern Company Services  
Attn: Mr. Greg Dyer  
3535 Colonnade Parkway  
Birmingham, AL 35243



Re: Plant Miller Ash Pond  
1<sup>st</sup> Semi-Annual Statistical Analysis – February/March 2022

Dear Mr. Dyer,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the background update and statistical analysis of groundwater data for the 1<sup>st</sup> Semi-Annual February/March 2022 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-28H, MR-AP-MW-27HR, 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, MR-AP-MW-19H, and MR-AP-MW-31H

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, MR-AP-MW-14R are plotted on the time series graphs and box plots, and are evaluated with confidence intervals which require a minimum of 4 samples. Prediction limits will be used to evaluate the 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 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.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was prepared according to the Statistical Analysis Plan approved by Dr. Kirk Cameron, PhD Statistician with MacStat Consulting, primary author of the USEPA Unified Guidance, and Senior Advisor to Groundwater Stats Consulting. The analysis was reviewed by Andrew Collins, Project Manager for Groundwater Stats Consulting.

The CCR program consists of the following constituents:

**Appendix III** (Detection Monitoring) - boron, calcium, chloride, fluoride, pH, sulfate, and TDS

**Appendix IV** (Assessment Monitoring) - antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of Appendix IV downgradient

well/constituent pairs containing 100% non-detects follows this letter. Additionally, while upgradient well GS-AP-MW-13 was abandoned in July 2019, data from this well is included in the interwell limits to represent background groundwater quality.

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): 44
- # 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 selected 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 in background, 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 natural 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:

Increasing

- pH: MR-AP-MW-10 and MR-AP-MW-16

Decreasing

- 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 naturally occurring 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 – February/March 2022**

### 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 February/March 2022 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 March 2022 to establish a background limit for an individual constituent. The February/March 2022 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. Exceedances for both intrawell and interwell prediction limits were identified for the following well/constituent pairs:

Intrawell:

- pH: GS-AP-MW-3D, MR-AP-MW-4, and MR-AP-MW-10

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-12, and MR-AP-MW-16
- Chloride: MR-AP-MW-3D, MR-AP-MW-3S, MR-AP-MW-4, MR-AP-MW-5, MR-AP-PZ-5, MR-AP-MW-6, and MR-AP-MW-15

- Fluoride: 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, 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, MR-AP-MW-12, and MR-AP-MW-16

### 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 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 natural 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 not included due to insufficient sample size for trend testing (i.e., a minimum of 6 samples). A summary of the trend test results follows this letter. Statistically significant trends were identified for the following well/constituent pairs:

#### Increasing:

- Boron: MR-AP-MW-2, MR-AP-MW-3S, MR-AP-MW-6, MR-AP-MW-10, MR-AP-MW-12, and MR-AP-MW-15
- Calcium: MR-AP-MW-6
- Chloride: GS-AP-MW-8 (upgradient), MR-AP-MW-3S, and MR-AP-MW-6
- Fluoride: GS-AP-MW-13 (upgradient), 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-10 and MR-AP-MW-3D
- Sulfate: MR-AP-MW-12
- TDS: MR-AP-MW-12

#### Decreasing:

- Boron: MR-AP-MW-3D, MR-AP-MW-4, and MR-AP-PZ-5
- Calcium: MR-AP-MW-3D, MR-AP-MW-4, and MR-AP-MW-5
- Chloride: MR-AP-MW-3D and MR-AP-MW-4
- Sulfate: MR-AP-MW-3D, MR-AP-MW-4, MR-AP-MW-5, and MR-AP-MW-16

- TDS: MR-AP-MW-3D, MR-AP-MW-4, MR-AP-MW-5, and MR-AP-MW-16

## **Evaluation of Appendix IV Parameters – February/March 2022**

Data from all wells for Appendix IV parameters were reassessed for outliers during previous analyses through visual screening and no new outliers were flagged. 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 2<sup>nd</sup> 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 2<sup>nd</sup> 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.

### 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) 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 MCL's 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 March 2022 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. Nonparametric confidence intervals, which use the highest and lowest values in background as interval limits, were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects.

As mentioned above, well/constituent pairs containing 100% non-detects for the most recent 8 samples did not require statistics; therefore, they were deselected prior to construction of confidence intervals. A list of deselected well/constituent pairs follows this report. Each confidence interval was compared with the corresponding GWPS. Only when the entire confidence interval is above the GWPS is the well/constituent pair considered to exceed its respective standard. Both a tabular summary and graphical presentation of the confidence interval results follow this letter. Exceedances were identified for the following well/constituent pairs:

- Arsenic: MR-AP-MW-5
- Cobalt: MR-AP-MW-2
- 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-MW-6, MW-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-PZ-5
- 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

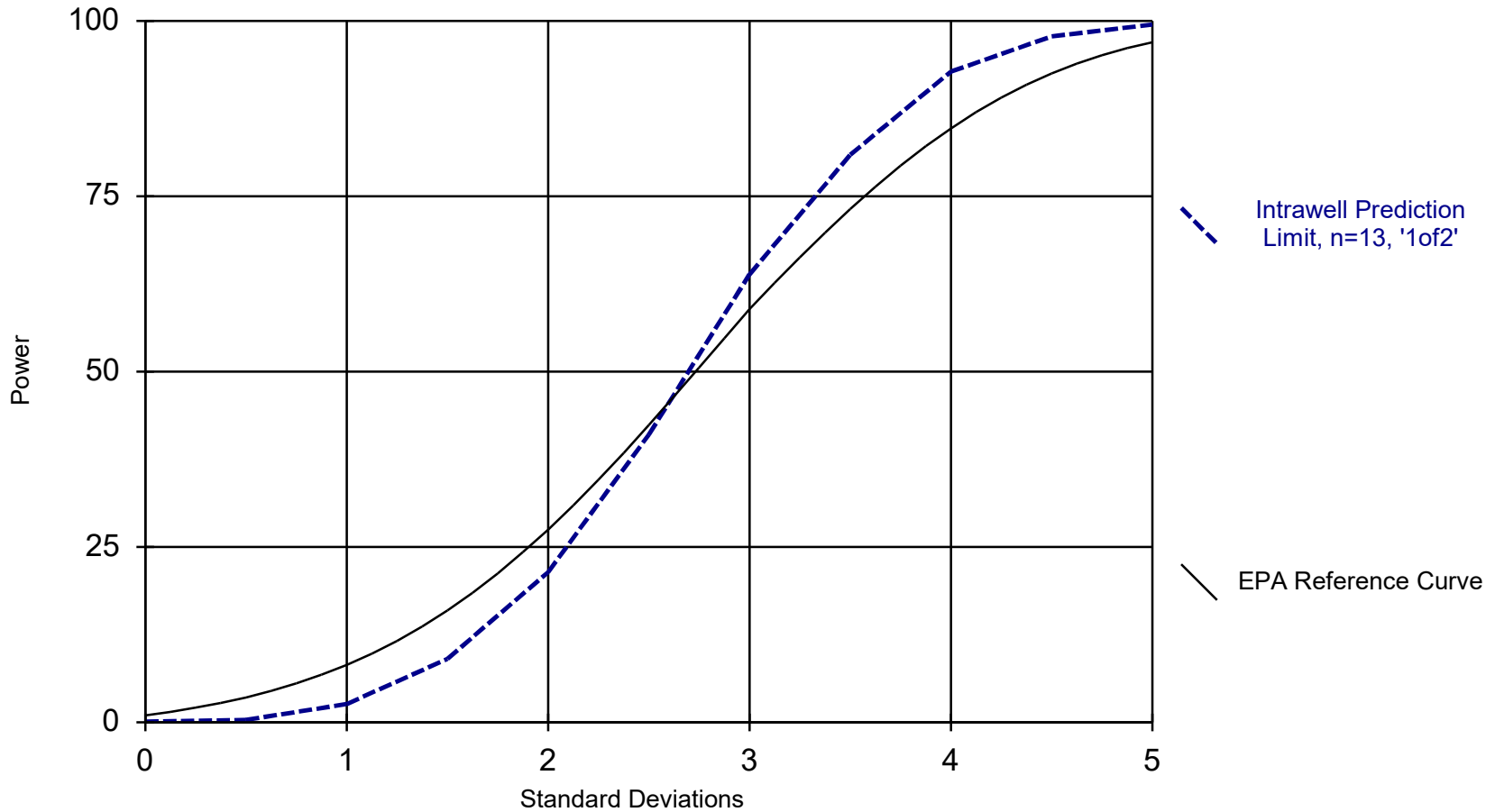


Kristina Rayner  
Groundwater Statistician



Easton Rayner  
Groundwater Analyst

### Intrawell Power Curve

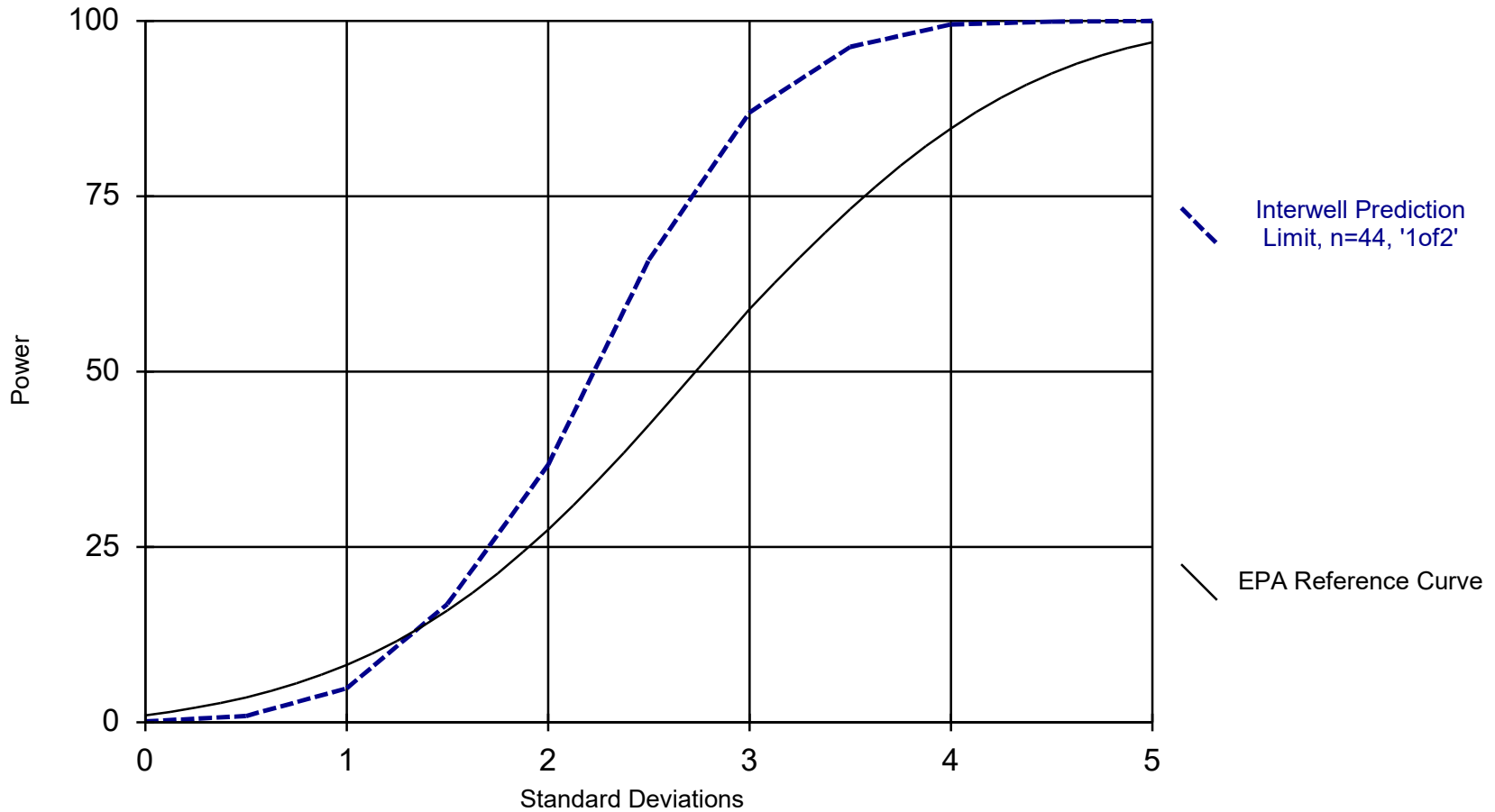


Kappa = 2.656, based on 13 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

Analysis Run 5/18/2022 2:11 PM View: Trend  
Plant Miller Client: Southern Company Data: Miller Ash Pond



### Interwell Power Curve



Kappa = 2.124, based on 13 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

# 100% Non-Detects: Appendix IV Downgradient

Analysis Run 5/17/2022 7:46 PM View: AIV

Plant Miller Client: Southern Company Data: Miller Ash Pond

**Antimony (mg/L)**

MR-AP-MW-1, MR-AP-MW-10, MR-AP-MW-11, MR-AP-MW-13DR, MR-AP-MW-13SR, MR-AP-MW-14R, MR-AP-MW-15, MR-AP-MW-2, MR-AP-MW-4, MR-AP-MW-5, MR-AP-MW-6, MR-AP-MW-7DR, MR-AP-MW-7SR, MR-AP-MW-9DR, MR-AP-MW-9SR

**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-13DR, MR-AP-MW-14R, MR-AP-MW-15, 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-3S, 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-16, MR-AP-MW-2, MR-AP-MW-3D, MR-AP-MW-4, MR-AP-MW-6, MR-AP-MW-7DR, MR-AP-MW-7SR, MR-AP-MW-9DR, MR-AP-MW-9SR

**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-13SR, 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-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

# Date Ranges

Date: 5/17/2022 6:01 PM

Plant Miller Client: Southern Company Data: Miller Ash Pond

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pH, Field (pH)

MR-AP-MW-1 background:7/25/2016-10/9/2018

# Intrawell Prediction Limits - Significant Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 5/18/2022, 1:40 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg.N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH, Field (pH)	MR-AP-MW-10	7.103	6.575	3/17/2022	7.24	Yes	18	6.839	0.1089	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-3D	6.954	6.624	3/16/2022	7.04	Yes	19	6.789	0.06919	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-4	6.067	5.624	3/15/2022	6.27	Yes	19	5.846	0.0927	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 5/18/2022, 1:40 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg.N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH, Field (pH)	GS-AP-MW-13	6.931	6.594	n/a	1 future	n/a	13	6.762	0.06353	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	GS-AP-MW-8	6.099	5.378	2/16/2022	5.8	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	3/15/2022	8.71	No	14	8.508	0.4386	0	None	No	0.0002894	Param Intra 1 of 2
<b>pH, Field (pH)</b>	<b>MR-AP-MW-10</b>	<b>7.103</b>	<b>6.575</b>	<b>3/17/2022</b>	<b>7.24</b>	<b>Yes</b>	<b>18</b>	<b>6.839</b>	<b>0.1089</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0002894</b>	<b>Param Intra 1 of 2</b>
pH, Field (pH)	MR-AP-MW-11	7.3	6.5	3/16/2022	6.94	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	3/17/2022	6.65	No	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	3/9/2022	6.37	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	3/8/2022	6.15	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	3/16/2022	6.14	No	18	6.147	0.1135	0	None	No	0.0002894	Param Intra 1 of 2
<b>pH, Field (pH)</b>	<b>MR-AP-MW-3D</b>	<b>6.954</b>	<b>6.624</b>	<b>3/16/2022</b>	<b>7.04</b>	<b>Yes</b>	<b>19</b>	<b>6.789</b>	<b>0.06919</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0002894</b>	<b>Param Intra 1 of 2</b>
pH, Field (pH)	MR-AP-MW-3S	9.882	8.717	3/16/2022	9.05	No	19	9.299	0.2437	0	None	No	0.0002894	Param Intra 1 of 2
<b>pH, Field (pH)</b>	<b>MR-AP-MW-4</b>	<b>6.067</b>	<b>5.624</b>	<b>3/15/2022</b>	<b>6.27</b>	<b>Yes</b>	<b>19</b>	<b>5.846</b>	<b>0.0927</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0002894</b>	<b>Param Intra 1 of 2</b>
pH, Field (pH)	MR-AP-MW-5	7.268	6.893	3/14/2022	6.92	No	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	3/16/2022	6.07	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	3/14/2022	8.47	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 5/18/2022, 1:49 PM

Constituent	Well	Upper Lim.	Date	Obsrv.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	MR-AP-MW-10	0.101	3/17/2022	5.81	Yes	44	n/a	n/a	36.36	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-12	0.101	3/17/2022	7.07	Yes	44	n/a	n/a	36.36	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-15	0.101	3/9/2022	0.445	Yes	44	n/a	n/a	36.36	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-16	0.101	3/8/2022	2.13	Yes	44	n/a	n/a	36.36	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-2	0.101	3/16/2022	0.165	Yes	44	n/a	n/a	36.36	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-3D	0.101	3/16/2022	0.428	Yes	44	n/a	n/a	36.36	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-3S	0.101	3/16/2022	0.276	Yes	44	n/a	n/a	36.36	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-4	0.101	3/15/2022	0.423	Yes	44	n/a	n/a	36.36	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-5	0.101	3/14/2022	0.864	Yes	44	n/a	n/a	36.36	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-6	0.101	3/16/2022	0.887	Yes	44	n/a	n/a	36.36	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-PZ-5	0.101	3/14/2022	0.245	Yes	44	n/a	n/a	36.36	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-1	63.5	3/15/2022	98.1	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-10	63.5	3/17/2022	76.4	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-11	63.5	3/16/2022	173	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-12	63.5	3/17/2022	102	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-16	63.5	3/8/2022	154	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-2	63.5	3/16/2022	239	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-3D	63.5	3/16/2022	116	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-4	63.5	3/15/2022	159	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-5	63.5	3/14/2022	228	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-6	63.5	3/16/2022	160	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MR-AP-MW-15	14.6	3/9/2022	17.6	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MR-AP-MW-3D	14.6	3/16/2022	15	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MR-AP-MW-3S	14.6	3/16/2022	79.4	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MR-AP-MW-4	14.6	3/15/2022	19	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MR-AP-MW-5	14.6	3/14/2022	26.1	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MR-AP-MW-6	14.6	3/16/2022	33.2	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MR-AP-PZ-5	14.6	3/14/2022	30.7	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	MR-AP-MW-10	0.2991	3/17/2022	1.86	Yes	46	0.1511	0.06996	0	None	No	0.0005787	Param Inter 1 of 2
Fluoride, total (mg/L)	MR-AP-MW-12	0.2991	3/17/2022	1.21	Yes	46	0.1511	0.06996	0	None	No	0.0005787	Param Inter 1 of 2
Fluoride, total (mg/L)	MR-AP-MW-3D	0.2991	3/16/2022	0.388	Yes	46	0.1511	0.06996	0	None	No	0.0005787	Param Inter 1 of 2
Fluoride, total (mg/L)	MR-AP-MW-3S	0.2991	3/16/2022	0.309	Yes	46	0.1511	0.06996	0	None	No	0.0005787	Param Inter 1 of 2
Fluoride, total (mg/L)	MR-AP-MW-5	0.2991	3/14/2022	0.405	Yes	46	0.1511	0.06996	0	None	No	0.0005787	Param Inter 1 of 2
Fluoride, total (mg/L)	MR-AP-PZ-5	0.2991	3/14/2022	2.28	Yes	46	0.1511	0.06996	0	None	No	0.0005787	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-1	139	3/15/2022	512	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-10	139	3/17/2022	735	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-11	139	3/16/2022	707	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-12	139	3/17/2022	1730	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-16	139	3/8/2022	530	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-2	139	3/16/2022	1630	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-3D	139	3/16/2022	352	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-3S	139	3/16/2022	227	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-4	139	3/15/2022	475	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-5	139	3/14/2022	810	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-6	139	3/16/2022	587	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-1	534	3/15/2022	897	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-10	534	3/17/2022	1230	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-11	534	3/16/2022	1120	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-12	534	3/17/2022	2580	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-16	534	3/8/2022	738	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-2	534	3/16/2022	2420	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-3D	534	3/16/2022	698	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-3S	534	3/16/2022	698	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-4	534	3/15/2022	800	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-5	534	3/14/2022	1190	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-6	534	3/16/2022	894	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-PZ-5	534	3/14/2022	748	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2

# Interwell Prediction Limits - All Results

Plant Miller    Client: Southern Company    Data: Miller Ash Pond    Printed 5/18/2022, 1:49 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	MR-AP-MW-1	0.101	3/15/2022	0.0528J	No	44	n/a	n/a	36.36	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
<b>Boron, total (mg/L)</b>	<b>MR-AP-MW-10</b>	<b>0.101</b>	<b>3/17/2022</b>	<b>5.81</b>	<b>Yes</b>	<b>44</b>	<b>n/a</b>	<b>n/a</b>	<b>36.36</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0009449</b>	<b>NP Inter (normality) 1 of 2</b>
Boron, total (mg/L)	MR-AP-MW-11	0.101	3/16/2022	0.0357J	No	44	n/a	n/a	36.36	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-12	0.101	3/17/2022	7.07	Yes	44	n/a	n/a	36.36	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-15	0.101	3/9/2022	0.445	Yes	44	n/a	n/a	36.36	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-16	0.101	3/8/2022	2.13	Yes	44	n/a	n/a	36.36	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-2	0.101	3/16/2022	0.165	Yes	44	n/a	n/a	36.36	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-3D	0.101	3/16/2022	0.428	Yes	44	n/a	n/a	36.36	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-3S	0.101	3/16/2022	0.276	Yes	44	n/a	n/a	36.36	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-4	0.101	3/15/2022	0.423	Yes	44	n/a	n/a	36.36	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-5	0.101	3/14/2022	0.864	Yes	44	n/a	n/a	36.36	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-6	0.101	3/16/2022	0.887	Yes	44	n/a	n/a	36.36	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-PZ-5	0.101	3/14/2022	0.245	Yes	44	n/a	n/a	36.36	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-1	63.5	3/15/2022	98.1	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-10	63.5	3/17/2022	76.4	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-11	63.5	3/16/2022	173	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-12	63.5	3/17/2022	102	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-15	63.5	3/9/2022	39.1	No	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-16	63.5	3/8/2022	154	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-2	63.5	3/16/2022	239	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-3D	63.5	3/16/2022	116	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-3S	63.5	3/16/2022	5.38	No	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-4	63.5	3/15/2022	159	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-5	63.5	3/14/2022	228	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-6	63.5	3/16/2022	160	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-PZ-5	63.5	3/14/2022	6.95	No	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MR-AP-MW-1	14.6	3/15/2022	10.4	No	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MR-AP-MW-10	14.6	3/17/2022	4.75	No	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MR-AP-MW-11	14.6	3/16/2022	7.08	No	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MR-AP-MW-12	14.6	3/17/2022	8.05	No	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
<b>Chloride, Total (mg/L)</b>	<b>MR-AP-MW-15</b>	<b>14.6</b>	<b>3/9/2022</b>	<b>17.6</b>	<b>Yes</b>	<b>44</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0009449</b>	<b>NP Inter (normality) 1 of 2</b>
Chloride, Total (mg/L)	MR-AP-MW-16	14.6	3/8/2022	7.81	No	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MR-AP-MW-2	14.6	3/16/2022	6.88	No	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
<b>Chloride, Total (mg/L)</b>	<b>MR-AP-MW-3D</b>	<b>14.6</b>	<b>3/16/2022</b>	<b>15</b>	<b>Yes</b>	<b>44</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0009449</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Chloride, Total (mg/L)</b>	<b>MR-AP-MW-3S</b>	<b>14.6</b>	<b>3/16/2022</b>	<b>79.4</b>	<b>Yes</b>	<b>44</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0009449</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Chloride, Total (mg/L)</b>	<b>MR-AP-MW-4</b>	<b>14.6</b>	<b>3/15/2022</b>	<b>19</b>	<b>Yes</b>	<b>44</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0009449</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Chloride, Total (mg/L)</b>	<b>MR-AP-MW-5</b>	<b>14.6</b>	<b>3/14/2022</b>	<b>26.1</b>	<b>Yes</b>	<b>44</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0009449</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Chloride, Total (mg/L)</b>	<b>MR-AP-MW-6</b>	<b>14.6</b>	<b>3/16/2022</b>	<b>33.2</b>	<b>Yes</b>	<b>44</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0009449</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Chloride, Total (mg/L)</b>	<b>MR-AP-PZ-5</b>	<b>14.6</b>	<b>3/14/2022</b>	<b>30.7</b>	<b>Yes</b>	<b>44</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0009449</b>	<b>NP Inter (normality) 1 of 2</b>
Fluoride, total (mg/L)	MR-AP-MW-1	0.2991	3/15/2022	0.142	No	46	0.1511	0.06996	0	None	No	0.0005787	Param Inter 1 of 2
<b>Fluoride, total (mg/L)</b>	<b>MR-AP-MW-10</b>	<b>0.2991</b>	<b>3/17/2022</b>	<b>1.86</b>	<b>Yes</b>	<b>46</b>	<b>0.1511</b>	<b>0.06996</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0005787</b>	<b>Param Inter 1 of 2</b>
Fluoride, total (mg/L)	MR-AP-MW-11	0.2991	3/16/2022	0.107J	No	46	0.1511	0.06996	0	None	No	0.0005787	Param Inter 1 of 2
<b>Fluoride, total (mg/L)</b>	<b>MR-AP-MW-12</b>	<b>0.2991</b>	<b>3/17/2022</b>	<b>1.21</b>	<b>Yes</b>	<b>46</b>	<b>0.1511</b>	<b>0.06996</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0005787</b>	<b>Param Inter 1 of 2</b>
Fluoride, total (mg/L)	MR-AP-MW-15	0.2991	3/9/2022	0.103J	No	46	0.1511	0.06996	0	None	No	0.0005787	Param Inter 1 of 2
Fluoride, total (mg/L)	MR-AP-MW-16	0.2991	3/8/2022	0.155	No	46	0.1511	0.06996	0	None	No	0.0005787	Param Inter 1 of 2
Fluoride, total (mg/L)	MR-AP-MW-2	0.2991	3/16/2022	0.268	No	46	0.1511	0.06996	0	None	No	0.0005787	Param Inter 1 of 2
<b>Fluoride, total (mg/L)</b>	<b>MR-AP-MW-3D</b>	<b>0.2991</b>	<b>3/16/2022</b>	<b>0.388</b>	<b>Yes</b>	<b>46</b>	<b>0.1511</b>	<b>0.06996</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0005787</b>	<b>Param Inter 1 of 2</b>
<b>Fluoride, total (mg/L)</b>	<b>MR-AP-MW-3S</b>	<b>0.2991</b>	<b>3/16/2022</b>	<b>0.309</b>	<b>Yes</b>	<b>46</b>	<b>0.1511</b>	<b>0.06996</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0005787</b>	<b>Param Inter 1 of 2</b>
Fluoride, total (mg/L)	MR-AP-MW-4	0.2991	3/15/2022	0.154	No	46	0.1511	0.06996	0	None	No	0.0005787	Param Inter 1 of 2
<b>Fluoride, total (mg/L)</b>	<b>MR-AP-MW-5</b>	<b>0.2991</b>	<b>3/14/2022</b>	<b>0.405</b>	<b>Yes</b>	<b>46</b>	<b>0.1511</b>	<b>0.06996</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0005787</b>	<b>Param Inter 1 of 2</b>
Fluoride, total (mg/L)	MR-AP-MW-6	0.2991	3/16/2022	0.155	No	46	0.1511	0.06996	0	None	No	0.0005787	Param Inter 1 of 2
<b>Fluoride, total (mg/L)</b>	<b>MR-AP-PZ-5</b>	<b>0.2991</b>	<b>3/14/2022</b>	<b>2.28</b>	<b>Yes</b>	<b>46</b>	<b>0.1511</b>	<b>0.06996</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0005787</b>	<b>Param Inter 1 of 2</b>
Sulfate as SO4 (mg/L)	MR-AP-MW-1	139	3/15/2022	512	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-10	139	3/17/2022	735	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-11	139	3/16/2022	707	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-12	139	3/17/2022	1730	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-15	139	3/9/2022	123	No	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-16	139	3/8/2022	530	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-2	139	3/16/2022	1630	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-3D	139	3/16/2022	352	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-3S	139	3/16/2022	227	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-4	139	3/15/2022	475	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-5	139	3/14/2022	810	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-6	139	3/16/2022	587	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-PZ-5	139	3/14/2022	51.7	No	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-1	534	3/15/2022	897	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-10	534	3/17/2022	1230	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-11	534	3/16/2022	1120	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2

# Interwell Prediction Limits - All Results

Plant Miller    Client: Southern Company    Data: Miller Ash Pond    Printed 5/18/2022, 1:49 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Date</u>	<u>Obsrv.</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>
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-12	534	3/17/2022	2580	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-15	534	3/9/2022	279	No	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-16	534	3/8/2022	738	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-2	534	3/16/2022	2420	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-3D	534	3/16/2022	698	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-3S	534	3/16/2022	698	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-4	534	3/15/2022	800	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-5	534	3/14/2022	1190	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-6	534	3/16/2022	894	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-PZ-5	534	3/14/2022	748	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2



# Trend Test - Significant Results

Plant Miller    Client: Southern Company    Data: Miller Ash Pond    Printed 5/18/2022, 2:05 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	MR-AP-MW-10	0.374	80	68	Yes	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-12	1.189	104	63	Yes	17	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-15	0.05229	104	68	Yes	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-2	0.01699	94	68	Yes	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-3D	-0.02511	-78	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-3S	0.01331	77	68	Yes	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-4	-0.02106	-92	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-6	0.01849	93	68	Yes	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-PZ-5	-0.03749	-111	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-16	-18.82	-93	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-3D	-27.29	-140	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-4	-26.52	-137	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-5	-16.31	-102	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-6	4.756	124	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	GS-AP-MW-8 (bg)	0.1896	85	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-3D	-6.927	-118	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-3S	11.11	117	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-4	-4.482	-96	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-6	1.915	143	74	Yes	19	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	0.07522	123	74	Yes	19	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-12	0.09617	100	68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-3D	0.03451	119	74	Yes	19	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-3S	0.02546	101	74	Yes	19	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-5	0.0337	112	74	Yes	19	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-PZ-5	0.2944	128	74	Yes	19	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-10	0.06835	122	81	Yes	20	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-3D	0.03997	145	87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-12	194.2	124	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-16	-56.99	-104	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-3D	-82.71	-130	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-4	-89.47	-135	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-5	-52.98	-111	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-12	249.7	98	63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-16	-98.91	-92	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-3D	-142.8	-134	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-4	-132.2	-126	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-5	-90.76	-109	-68	Yes	18	0	n/a	n/a	0.01	NP

# Trend Test - All Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 5/18/2022, 2:05 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	GS-AP-MW-13 (bg)	-0.01983	-35	-38	No	12	41.67	n/a	n/a	0.01	NP
Boron, total (mg/L)	GS-AP-MW-17V (bg)	-0.0054	-7	-18	No	7	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	GS-AP-MW-8 (bg)	0	-49	-68	No	18	61.11	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>MR-AP-MW-10</b>	<b>0.374</b>	<b>80</b>	<b>68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>MR-AP-MW-12</b>	<b>1.189</b>	<b>104</b>	<b>63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>MR-AP-MW-15</b>	<b>0.05229</b>	<b>104</b>	<b>68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron, total (mg/L)	MR-AP-MW-16	-0.09743	-48	-68	No	18	0	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>MR-AP-MW-2</b>	<b>0.01699</b>	<b>94</b>	<b>68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron, total (mg/L)	MR-AP-MW-21 (bg)	0.0005558	3	18	No	7	0	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>MR-AP-MW-3D</b>	<b>-0.02511</b>	<b>-78</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>MR-AP-MW-3S</b>	<b>0.01331</b>	<b>77</b>	<b>68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>MR-AP-MW-4</b>	<b>-0.02106</b>	<b>-92</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron, total (mg/L)	MR-AP-MW-5	-0.005261	-52	-68	No	18	0	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>MR-AP-MW-6</b>	<b>0.01849</b>	<b>93</b>	<b>68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>MR-AP-PZ-5</b>	<b>-0.03749</b>	<b>-111</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
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)	0.5737	5	18	No	7	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	GS-AP-MW-8 (bg)	-0.6456	-57	-68	No	18	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-1	-11.64	-68	-74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-10	6.948	74	74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-11	-2.237	-16	-74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-12	-9.865	-63	-68	No	18	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>MR-AP-MW-16</b>	<b>-18.82</b>	<b>-93</b>	<b>-74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	MR-AP-MW-2	5.098	61	74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-21 (bg)	-1.345	-5	-18	No	7	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>MR-AP-MW-3D</b>	<b>-27.29</b>	<b>-140</b>	<b>-74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium, total (mg/L)</b>	<b>MR-AP-MW-4</b>	<b>-26.52</b>	<b>-137</b>	<b>-74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium, total (mg/L)</b>	<b>MR-AP-MW-5</b>	<b>-16.31</b>	<b>-102</b>	<b>-74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium, total (mg/L)</b>	<b>MR-AP-MW-6</b>	<b>4.756</b>	<b>124</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
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)	-0.1796	-7	-18	No	7	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>GS-AP-MW-8 (bg)</b>	<b>0.1896</b>	<b>85</b>	<b>68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	MR-AP-MW-15	0	5	74	No	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-21 (bg)	0	0	18	No	7	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>MR-AP-MW-3D</b>	<b>-6.927</b>	<b>-118</b>	<b>-74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>MR-AP-MW-3S</b>	<b>11.11</b>	<b>117</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>MR-AP-MW-4</b>	<b>-4.482</b>	<b>-96</b>	<b>-74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	MR-AP-MW-5	-2.024	-60	-74	No	19	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>MR-AP-MW-6</b>	<b>1.915</b>	<b>143</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	MR-AP-PZ-5	-0.6466	-33	-74	No	19	0	n/a	n/a	0.01	NP
<b>Fluoride, total (mg/L)</b>	<b>GS-AP-MW-13 (bg)</b>	<b>0.02914</b>	<b>48</b>	<b>43</b>	<b>Yes</b>	<b>13</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Fluoride, total (mg/L)	GS-AP-MW-17V (bg)	0.001162	1	18	No	7	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	GS-AP-MW-8 (bg)	0.003661	34	74	No	19	0	n/a	n/a	0.01	NP
<b>Fluoride, total (mg/L)</b>	<b>MR-AP-MW-10</b>	<b>0.07522</b>	<b>123</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Fluoride, total (mg/L)</b>	<b>MR-AP-MW-12</b>	<b>0.09617</b>	<b>100</b>	<b>68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Fluoride, total (mg/L)	MR-AP-MW-21 (bg)	-0.01385	-5	-18	No	7	0	n/a	n/a	0.01	NP
<b>Fluoride, total (mg/L)</b>	<b>MR-AP-MW-3D</b>	<b>0.03451</b>	<b>119</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Fluoride, total (mg/L)</b>	<b>MR-AP-MW-3S</b>	<b>0.02546</b>	<b>101</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Fluoride, total (mg/L)</b>	<b>MR-AP-MW-5</b>	<b>0.0337</b>	<b>112</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Fluoride, total (mg/L)</b>	<b>MR-AP-PZ-5</b>	<b>0.2944</b>	<b>128</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
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)	-0.09188	-12	-18	No	7	0	n/a	n/a	0.01	NP
pH, Field (pH)	GS-AP-MW-8 (bg)	-0.04138	-73	-74	No	19	0	n/a	n/a	0.01	NP
<b>pH, Field (pH)</b>	<b>MR-AP-MW-10</b>	<b>0.06835</b>	<b>122</b>	<b>81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
pH, Field (pH)	MR-AP-MW-21 (bg)	0.1629	15	18	No	7	0	n/a	n/a	0.01	NP
<b>pH, Field (pH)</b>	<b>MR-AP-MW-3D</b>	<b>0.03997</b>	<b>145</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
pH, Field (pH)	MR-AP-MW-4	0.03439	75	87	No	21	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)	-1.441	-13	-18	No	7	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GS-AP-MW-8 (bg)	0.1821	34	68	No	18	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-1	-36.11	-58	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-10	30.74	48	74	No	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-11	-10.53	-46	-74	No	19	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>MR-AP-MW-12</b>	<b>194.2</b>	<b>124</b>	<b>68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>MR-AP-MW-16</b>	<b>-56.99</b>	<b>-104</b>	<b>-74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	MR-AP-MW-2	23.5	32	74	No	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-21 (bg)	9.095	15	18	No	7	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>MR-AP-MW-3D</b>	<b>-82.71</b>	<b>-130</b>	<b>-74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>

# Trend Test - All Results

Plant Miller    Client: Southern Company    Data: Miller Ash Pond    Printed 5/18/2022, 2:05 PM

<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>
Sulfate as SO4 (mg/L)	MR-AP-MW-3S	19.57	57	74	No	19	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>MR-AP-MW-4</b>	<b>-89.47</b>	<b>-135</b>	<b>-74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>MR-AP-MW-5</b>	<b>-52.98</b>	<b>-111</b>	<b>-74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	MR-AP-MW-6	8.425	38	74	No	19	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)	0	0	18	No	7	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	GS-AP-MW-8 (bg)	-3.157	-39	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-1	-29.99	-43	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-10	35.53	44	68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-11	-22.37	-52	-68	No	18	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>MR-AP-MW-12</b>	<b>249.7</b>	<b>98</b>	<b>63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>MR-AP-MW-16</b>	<b>-98.91</b>	<b>-92</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-2	35.55	51	68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-21 (bg)	17	5	18	No	7	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>MR-AP-MW-3D</b>	<b>-142.8</b>	<b>-134</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-3S	23.44	49	68	No	18	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>MR-AP-MW-4</b>	<b>-132.2</b>	<b>-126</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>MR-AP-MW-5</b>	<b>-90.76</b>	<b>-109</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-6	7.677	41	68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-PZ-5	-58.25	-62	-68	No	18	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

<b>MILLER AP GWPS</b>			
<b>Analyte</b>	<b>Units</b>	<b>Background</b>	<b>GWPS</b>
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 Interval Summary Table - Significant Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 5/17/2022, 7:49 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Arsenic (mg/L)	MR-AP-MW-5	0.01307	0.01009	0.01	Yes	8	0	No	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-2	0.05746	0.03807	0.006	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-1	0.2081	0.09335	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-10	0.2072	0.17	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-11	0.388	0.2298	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-12	0.1889	0.1154	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-2	0.272	0.2205	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-3D	0.1237	0.1014	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-3S	0.353	0.2173	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-4	0.08411	0.06334	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-5	0.237	0.189	0.04	Yes	8	0	No	0.004	NP (normality)
Lithium (mg/L)	MR-AP-MW-6	0.08755	0.07642	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-7DR	0.1481	0.09443	0.04	Yes	4	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-7SR	0.1724	0.1266	0.04	Yes	4	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-9DR	0.0827	0.0682	0.04	Yes	4	0	No	0.0625	NP (normality)
Lithium (mg/L)	MR-AP-PZ-5	0.1692	0.1305	0.04	Yes	8	0	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-10	0.4863	0.1045	0.1	Yes	8	0	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-12	0.9847	0.2843	0.1	Yes	8	0	No	0.01	Param.

# Confidence Interval Summary Table - All Results

Plant Miller    Client: Southern Company    Data: Miller Ash Pond    Printed 5/17/2022, 7:49 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	MR-AP-MW-12	0.00102	0.00056	0.006	No	8	75	No	0.004	NP (normality)
Antimony (mg/L)	MR-AP-MW-16	0.00107	0.000768	0.006	No	8	75	No	0.004	NP (normality)
Antimony (mg/L)	MR-AP-MW-3D	0.00118	0.00102	0.006	No	8	87.5	No	0.004	NP (NDs)
Antimony (mg/L)	MR-AP-MW-3S	0.00126	0.00102	0.006	No	8	87.5	No	0.004	NP (NDs)
Antimony (mg/L)	MR-AP-PZ-5	0.00102	0.0009	0.006	No	8	87.5	No	0.004	NP (NDs)
Arsenic (mg/L)	MR-AP-MW-1	0.0058	0.00174	0.01	No	8	0	No	0.004	NP (normality)
Arsenic (mg/L)	MR-AP-MW-10	0.061	0.00142	0.01	No	8	0	No	0.004	NP (normality)
Arsenic (mg/L)	MR-AP-MW-11	0.0002	0.00008	0.01	No	8	62.5	No	0.004	NP (normality)
Arsenic (mg/L)	MR-AP-MW-12	0.006179	0.002261	0.01	No	8	0	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-13DR	0.0007872	0.00004582	0.01	No	4	25	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-13SR	0.00219	-0.0001203	0.01	No	4	25	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-14R	0.0003156	0.0001334	0.01	No	4	25	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-15	0.00083	0.0002	0.01	No	8	62.5	No	0.004	NP (normality)
Arsenic (mg/L)	MR-AP-MW-16	0.0009	0.0002	0.01	No	8	62.5	No	0.004	NP (normality)
Arsenic (mg/L)	MR-AP-MW-2	0.004198	0.002037	0.01	No	8	0	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-3D	0.015	0.01	0.01	No	8	0	No	0.004	NP (normality)
Arsenic (mg/L)	MR-AP-MW-3S	0.002416	0.000478	0.01	No	8	12.5	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-4	0.0004	0.0002	0.01	No	8	62.5	No	0.004	NP (normality)
<b>Arsenic (mg/L)</b>	<b>MR-AP-MW-5</b>	<b>0.01307</b>	<b>0.01009</b>	<b>0.01</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Arsenic (mg/L)	MR-AP-MW-6	0.0002	0.000104	0.01	No	8	75	No	0.004	NP (normality)
Arsenic (mg/L)	MR-AP-MW-7DR	0.007279	-0.002809	0.01	No	4	0	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-7SR	0.003068	0.001442	0.01	No	4	0	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-9DR	0.001084	0.00001924	0.01	No	4	25	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-9SR	0.001917	0.0002876	0.01	No	4	0	No	0.01	Param.
Arsenic (mg/L)	MR-AP-PZ-5	0.00166	0.000099	0.01	No	8	12.5	No	0.004	NP (normality)
Barium (mg/L)	MR-AP-MW-1	0.1037	0.0314	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-10	0.01822	0.01256	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-11	0.0411	0.03159	2	No	8	0	x^4	0.01	Param.
Barium (mg/L)	MR-AP-MW-12	0.01873	0.0143	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-13DR	0.1789	0.01345	2	No	4	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-13SR	0.05559	0.006662	2	No	4	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-14R	0.122	0.08837	2	No	4	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-15	0.06469	0.02841	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-16	0.02983	0.02022	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-2	0.0189	0.01473	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-3D	0.03509	0.02296	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-3S	0.3848	0.1147	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-4	0.01426	0.01199	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-5	0.01709	0.01504	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-6	0.02629	0.02331	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-7DR	0.03581	0.02089	2	No	4	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-7SR	0.04902	0.03698	2	No	4	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-9DR	0.04285	0.0353	2	No	4	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-9SR	0.0274	0.0169	2	No	4	0	No	0.0625	NP (normality)
Barium (mg/L)	MR-AP-PZ-5	0.261	0.1437	2	No	8	0	No	0.01	Param.
Beryllium (mg/L)	MR-AP-MW-13SR	0.001872	-0.001327	0.004	No	4	50	x^5	0.01	Param.
Cadmium (mg/L)	MR-AP-MW-1	0.0002	0.0002	0.005	No	8	100	No	0.004	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-10	0.0002	0.00009	0.005	No	8	87.5	No	0.004	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-12	0.0002	0.0000927	0.005	No	8	62.5	No	0.004	NP (normality)
Cadmium (mg/L)	MR-AP-MW-13SR	0.0002	0.0001	0.005	No	4	75	No	0.0625	NP (normality)
Cadmium (mg/L)	MR-AP-MW-16	0.0002	0.0002	0.005	No	8	100	No	0.004	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-2	0.0002	0.0002	0.005	No	8	100	No	0.004	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-4	0.0002	0.000073	0.005	No	8	75	No	0.004	NP (normality)
Chromium (mg/L)	MR-AP-MW-1	0.006345	0.001009	0.1	No	8	12.5	sqrt(x)	0.01	Param.
Chromium (mg/L)	MR-AP-MW-10	0.00139	0.00047	0.1	No	8	75	No	0.004	NP (normality)
Chromium (mg/L)	MR-AP-MW-11	0.00102	0.00027	0.1	No	8	75	No	0.004	NP (normality)
Chromium (mg/L)	MR-AP-MW-12	0.00102	0.00048	0.1	No	8	75	No	0.004	NP (normality)
Chromium (mg/L)	MR-AP-MW-13DR	0.0003862	0.0001523	0.1	No	4	50	sqrt(x)	0.01	Param.
Chromium (mg/L)	MR-AP-MW-13SR	0.000848	-0.00008623	0.1	No	4	25	No	0.01	Param.
Chromium (mg/L)	MR-AP-MW-14R	0.0005677	0.0001113	0.1	No	4	50	No	0.01	Param.
Chromium (mg/L)	MR-AP-MW-15	0.00102	0.00028	0.1	No	8	75	No	0.004	NP (normality)
Chromium (mg/L)	MR-AP-MW-16	0.00102	0.00067	0.1	No	8	87.5	No	0.004	NP (NDs)
Chromium (mg/L)	MR-AP-MW-2	0.00102	0.00021	0.1	No	8	75	No	0.004	NP (normality)
Chromium (mg/L)	MR-AP-MW-3D	0.00102	0.00027	0.1	No	8	75	No	0.004	NP (normality)
Chromium (mg/L)	MR-AP-MW-3S	0.00102	0.00034	0.1	No	8	62.5	No	0.004	NP (normality)
Chromium (mg/L)	MR-AP-MW-4	0.00102	0.00029	0.1	No	8	87.5	No	0.004	NP (NDs)
Chromium (mg/L)	MR-AP-MW-5	0.00102	0.00027	0.1	No	8	87.5	No	0.004	NP (NDs)
Chromium (mg/L)	MR-AP-MW-6	0.00102	0.00023	0.1	No	8	75	No	0.004	NP (normality)

# Confidence Interval Summary Table - All Results

Plant Miller    Client: Southern Company    Data: Miller Ash Pond    Printed 5/17/2022, 7:49 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Chromium (mg/L)	MR-AP-MW-7DR	0.00102	0.0003	0.1	No	4	75	No	0.0625	NP (normality)
Chromium (mg/L)	MR-AP-MW-7SR	0.00102	0.000219	0.1	No	4	25	No	0.0625	NP (normality)
Chromium (mg/L)	MR-AP-MW-9DR	0.00102	0.00024	0.1	No	4	25	No	0.0625	NP (normality)
Chromium (mg/L)	MR-AP-MW-9SR	0.0003686	0.0001473	0.1	No	4	25	ln(x)	0.01	Param.
Chromium (mg/L)	MR-AP-PZ-5	0.00102	0.00021	0.1	No	8	75	No	0.004	NP (normality)
Cobalt (mg/L)	MR-AP-MW-1	0.00038	0.00008	0.006	No	8	62.5	No	0.004	NP (normality)
Cobalt (mg/L)	MR-AP-MW-10	0.00091	0.0002	0.006	No	8	62.5	No	0.004	NP (normality)
Cobalt (mg/L)	MR-AP-MW-11	0.0002	0.0002	0.006	No	8	100	No	0.004	NP (NDs)
Cobalt (mg/L)	MR-AP-MW-12	0.00211	0.0002	0.006	No	8	50	No	0.004	NP (normality)
Cobalt (mg/L)	MR-AP-MW-13DR	0.001172	0.00004789	0.006	No	4	25	No	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-13SR	0.133	-0.01922	0.006	No	4	0	No	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-14R	0.0002	0.0000688	0.006	No	4	75	No	0.0625	NP (normality)
Cobalt (mg/L)	MR-AP-MW-15	0.0021	0.0002	0.006	No	8	50	No	0.004	NP (normality)
Cobalt (mg/L)	MR-AP-MW-16	0.004604	0.0001461	0.006	No	8	37.5	No	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>MR-AP-MW-2</b>	<b>0.05746</b>	<b>0.03807</b>	<b>0.006</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	MR-AP-MW-3D	0.006128	0.004109	0.006	No	8	0	No	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-4	0.01674	0.005429	0.006	No	8	0	No	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-6	0.04361	0.003388	0.006	No	8	0	sqrt(x)	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-7SR	0.001183	0.00005491	0.006	No	4	25	No	0.001	Param.
Cobalt (mg/L)	MR-AP-MW-9DR	0.0002283	0.0000547	0.006	No	4	25	No	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-9SR	0.0003763	0.00005923	0.006	No	4	25	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-1	0.754	0.312	5	No	8	0	No	0.004	NP (normality)
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-10	1.065	0.1872	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-11	0.4972	0.1514	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-12	1.123	0.2547	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-13DR	1.169	-0.06369	5	No	4	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-13SR	1.624	-0.5434	5	No	4	0	x^2	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-14R	0.7822	-0.3622	5	No	4	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-15	0.6592	0.1336	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-16	1.15	-0.0538	5	No	8	0	No	0.004	NP (normality)
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-2	0.8815	0.2887	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-3D	0.7791	-0.03668	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-3S	0.9054	-0.0004814	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-4	0.4736	0.1624	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-5	1.035	0.2397	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-6	0.4309	0.1337	5	No	8	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-7DR	2.265	0.008515	5	No	4	0	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-7SR	1.046	0.2137	5	No	4	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-9DR	1.331	-0.1272	5	No	4	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-9SR	0.5566	-0.007624	5	No	4	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-PZ-5	0.6921	0.1031	5	No	8	0	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-1	0.1855	0.146	4	No	8	0	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-10	1.86	0.433	4	No	8	0	No	0.004	NP (normality)
Fluoride, total (mg/L)	MR-AP-MW-11	0.1415	0.1115	4	No	8	0	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-12	1.083	0.7503	4	No	8	0	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-13DR	0.2155	0.1055	4	No	4	0	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-13SR	0.668	0.3025	4	No	4	0	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-14R	0.197	0.154	4	No	4	0	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-15	0.1301	0.1035	4	No	8	0	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-16	0.2361	0.1371	4	No	8	0	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-2	0.3298	0.1227	4	No	8	0	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-3D	0.4095	0.3468	4	No	8	0	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-3S	0.3419	0.2873	4	No	8	0	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-4	0.2896	0.1839	4	No	8	0	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-5	0.4294	0.3849	4	No	8	0	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-6	0.1665	0.1055	4	No	8	0	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-7DR	0.1687	0.09626	4	No	4	25	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-7SR	0.2607	0.2053	4	No	4	0	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-9DR	0.2311	0.06135	4	No	4	0	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-9SR	0.1791	0.08386	4	No	4	0	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-PZ-5	2.37	1.485	4	No	8	0	No	0.01	Param.
Lead (mg/L)	MR-AP-MW-13DR	0.0002	0.000121	0.015	No	4	75	No	0.0625	NP (normality)
Lead (mg/L)	MR-AP-MW-13SR	0.0002	0.00011	0.015	No	4	75	No	0.0625	NP (normality)
Lead (mg/L)	MR-AP-MW-3D	0.0002	0.000084	0.015	No	8	87.5	No	0.004	NP (NDs)
<b>Lithium (mg/L)</b>	<b>MR-AP-MW-1</b>	<b>0.2081</b>	<b>0.09335</b>	<b>0.04</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Lithium (mg/L)</b>	<b>MR-AP-MW-10</b>	<b>0.2072</b>	<b>0.17</b>	<b>0.04</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Lithium (mg/L)</b>	<b>MR-AP-MW-11</b>	<b>0.388</b>	<b>0.2298</b>	<b>0.04</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Lithium (mg/L)</b>	<b>MR-AP-MW-12</b>	<b>0.1889</b>	<b>0.1154</b>	<b>0.04</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>



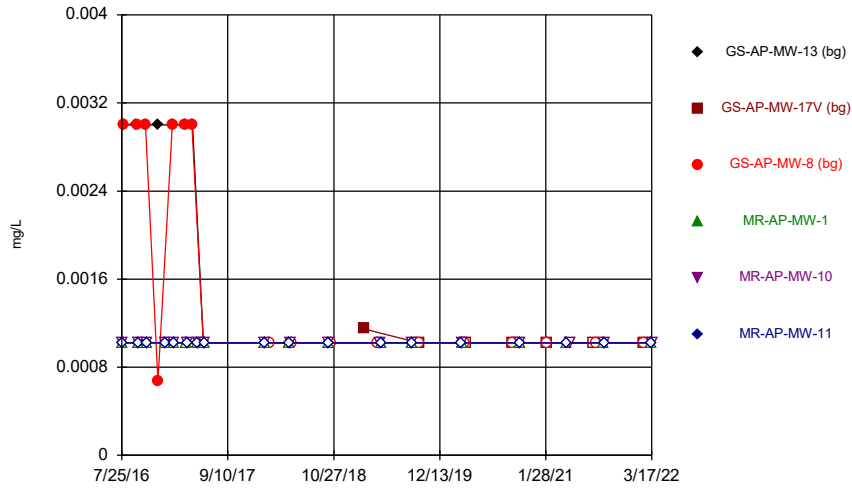
# Confidence Interval Summary Table - All Results

Plant Miller    Client: Southern Company    Data: Miller Ash Pond    Printed 5/17/2022, 7:49 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Lithium (mg/L)	MR-AP-MW-13DR	0.03913	0.02917	0.04	No	4	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-13SR	0.06054	0.01048	0.04	No	4	0	x^(1/3)	0.01	Param.
Lithium (mg/L)	MR-AP-MW-14R	0.02231	0.01899	0.04	No	4	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-15	0.02018	0.01855	0.04	No	8	12.5	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-16	0.1218	0.02708	0.04	No	8	0	No	0.01	Param.
Lithium (mg/L)	<b>MR-AP-MW-2</b>	<b>0.272</b>	<b>0.2205</b>	<b>0.04</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Lithium (mg/L)	<b>MR-AP-MW-3D</b>	<b>0.1237</b>	<b>0.1014</b>	<b>0.04</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Lithium (mg/L)	<b>MR-AP-MW-3S</b>	<b>0.353</b>	<b>0.2173</b>	<b>0.04</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Lithium (mg/L)	<b>MR-AP-MW-4</b>	<b>0.08411</b>	<b>0.06334</b>	<b>0.04</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Lithium (mg/L)	<b>MR-AP-MW-5</b>	<b>0.237</b>	<b>0.189</b>	<b>0.04</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>No</b>	<b>0.004</b>	<b>NP (normality)</b>
Lithium (mg/L)	<b>MR-AP-MW-6</b>	<b>0.08755</b>	<b>0.07642</b>	<b>0.04</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Lithium (mg/L)	<b>MR-AP-MW-7DR</b>	<b>0.1481</b>	<b>0.09443</b>	<b>0.04</b>	<b>Yes</b>	<b>4</b>	<b>0</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Lithium (mg/L)	<b>MR-AP-MW-7SR</b>	<b>0.1724</b>	<b>0.1266</b>	<b>0.04</b>	<b>Yes</b>	<b>4</b>	<b>0</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Lithium (mg/L)	<b>MR-AP-MW-9DR</b>	<b>0.0827</b>	<b>0.0682</b>	<b>0.04</b>	<b>Yes</b>	<b>4</b>	<b>0</b>	<b>No</b>	<b>0.0625</b>	<b>NP (normality)</b>
Lithium (mg/L)	MR-AP-MW-9SR	0.05003	0.03632	0.04	No	4	0	No	0.01	Param.
Lithium (mg/L)	<b>MR-AP-PZ-5</b>	<b>0.1692</b>	<b>0.1305</b>	<b>0.04</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Mercury (mg/L)	MR-AP-MW-15	0.0005	0.000316	0.002	No	8	87.5	No	0.004	NP (NDs)
Mercury (mg/L)	MR-AP-MW-3S	0.0005	0.000318	0.002	No	8	87.5	No	0.004	NP (NDs)
Mercury (mg/L)	MR-AP-MW-5	0.0005	0.000319	0.002	No	8	87.5	No	0.004	NP (NDs)
Mercury (mg/L)	MR-AP-PZ-5	0.0005	0.000311	0.002	No	8	87.5	No	0.004	NP (NDs)
Molybdenum (mg/L)	MR-AP-MW-1	0.0117	0.005197	0.1	No	8	0	No	0.01	Param.
<b>Molybdenum (mg/L)</b>	<b>MR-AP-MW-10</b>	<b>0.4863</b>	<b>0.1045</b>	<b>0.1</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>sqrt(x)</b>	<b>0.01</b>	<b>Param.</b>
Molybdenum (mg/L)	MR-AP-MW-11	0.00075	0.000203	0.1	No	8	62.5	No	0.004	NP (normality)
<b>Molybdenum (mg/L)</b>	<b>MR-AP-MW-12</b>	<b>0.9847</b>	<b>0.2843</b>	<b>0.1</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Molybdenum (mg/L)	MR-AP-MW-13DR	0.007366	0.00002412	0.1	No	4	0	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-13SR	0.009842	0.00001489	0.1	No	4	0	ln(x)	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-14R	0.0001845	0.00006012	0.1	No	4	25	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-15	0.000203	0.00008	0.1	No	8	75	No	0.004	NP (normality)
Molybdenum (mg/L)	MR-AP-MW-16	0.07388	0.009749	0.1	No	8	0	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-2	0.00458	0.000203	0.1	No	8	50	No	0.004	NP (normality)
Molybdenum (mg/L)	MR-AP-MW-3D	0.02676	0.02376	0.1	No	8	0	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-3S	0.06339	0.04228	0.1	No	8	0	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-4	0.000203	0.00007	0.1	No	8	62.5	No	0.004	NP (normality)
Molybdenum (mg/L)	MR-AP-MW-5	0.0877	0.0686	0.1	No	8	0	No	0.004	NP (normality)
Molybdenum (mg/L)	MR-AP-MW-6	0.004552	0.0006613	0.1	No	8	12.5	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-7DR	0.005661	0.003289	0.1	No	4	0	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-7SR	0.03751	0.03069	0.1	No	4	0	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-9DR	0.001549	0.00001102	0.1	No	4	25	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-9SR	0.003083	-0.0008982	0.1	No	4	0	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-PZ-5	0.000438	0.000203	0.1	No	8	62.5	No	0.004	NP (normality)
Selenium (mg/L)	MR-AP-MW-16	0.00629	0.000975	0.05	No	8	37.5	No	0.004	NP (normality)
Selenium (mg/L)	MR-AP-MW-4	0.00112	0.00077	0.05	No	8	75	No	0.004	NP (normality)
Thallium (mg/L)	MR-AP-MW-13SR	0.0001529	0.00003384	0.002	No	4	25	No	0.01	Param.
Thallium (mg/L)	MR-AP-MW-16	0.0002	0.00007	0.002	No	8	75	No	0.004	NP (normality)
Thallium (mg/L)	MR-AP-MW-2	0.0002	0.0002	0.002	No	8	100	No	0.004	NP (NDs)
Thallium (mg/L)	MR-AP-MW-4	0.0002	0.00007	0.002	No	8	87.5	No	0.004	NP (NDs)

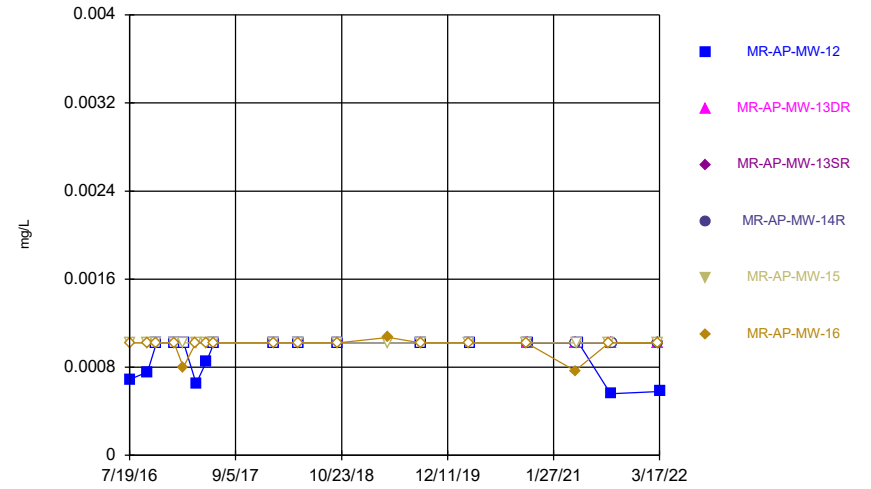
FIGURE A.

### Time Series



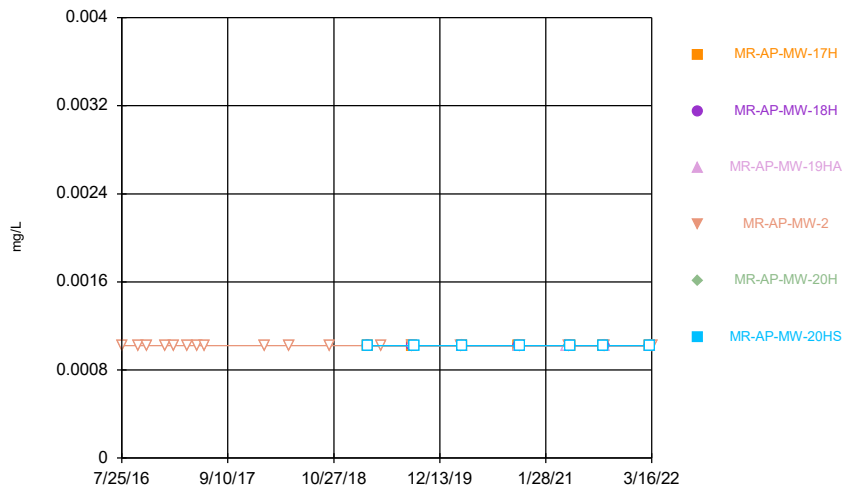
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Plant Miller Client: Southern Company Data: Miller Ash Pond

### Time Series



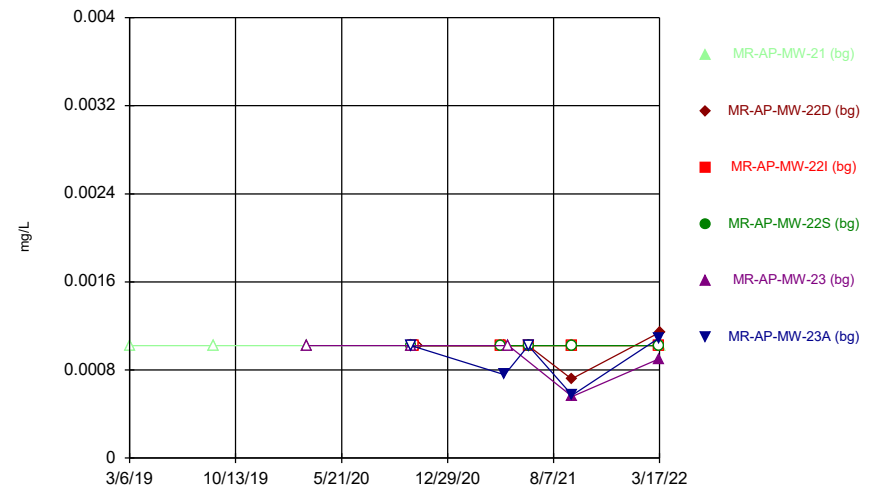
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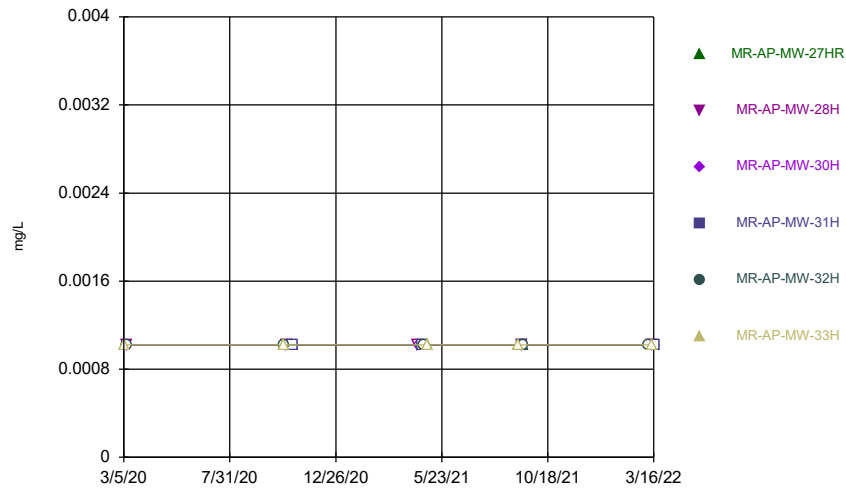
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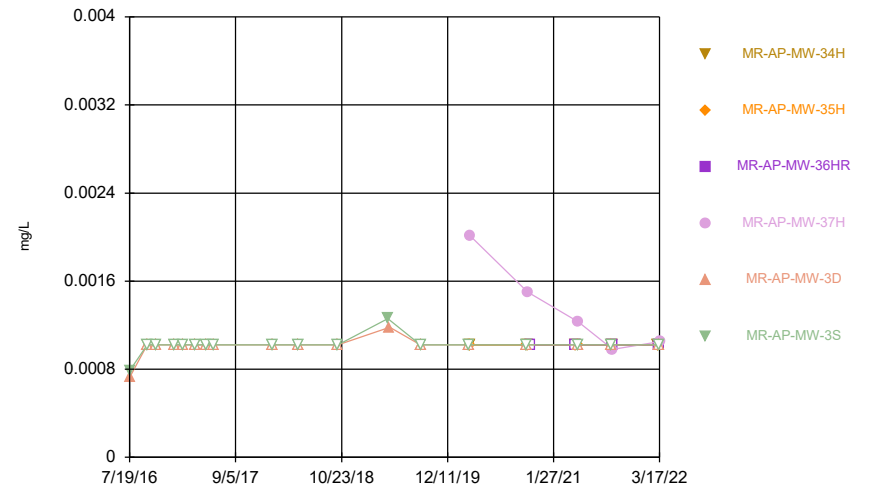
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Time Series



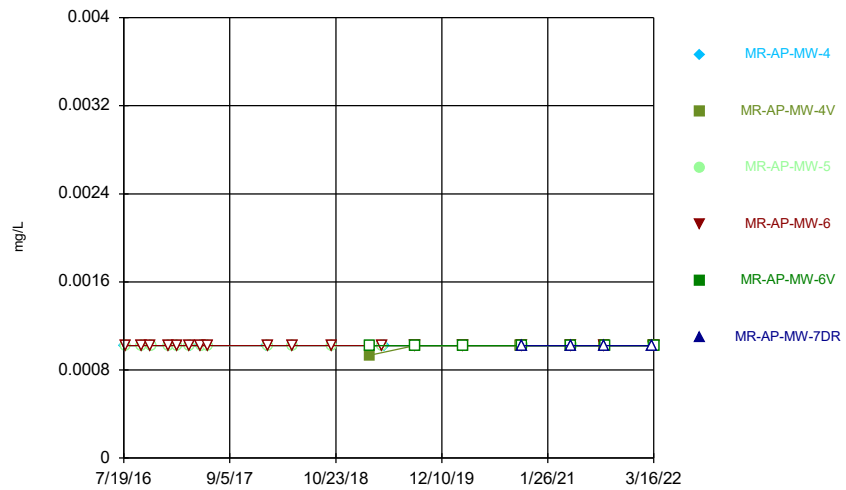
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Time Series



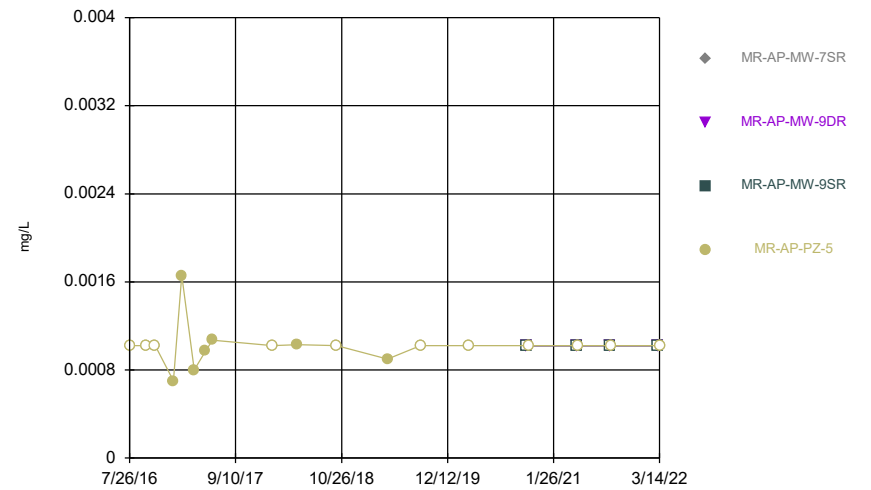
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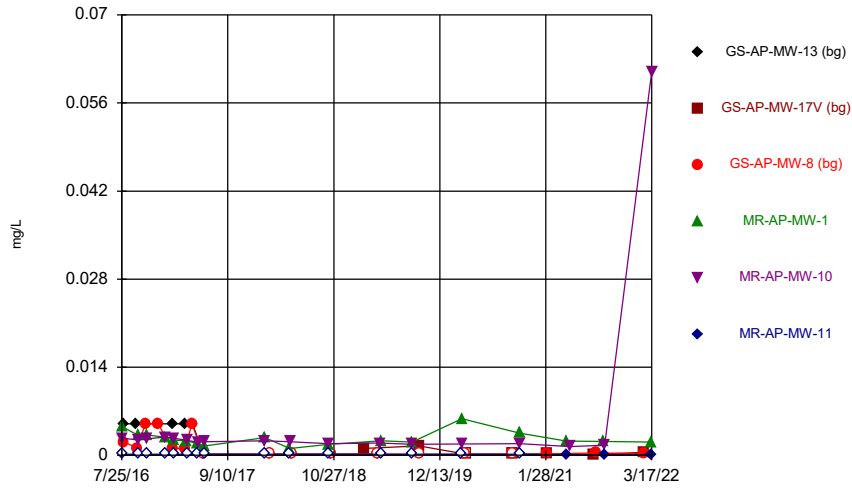
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Time Series



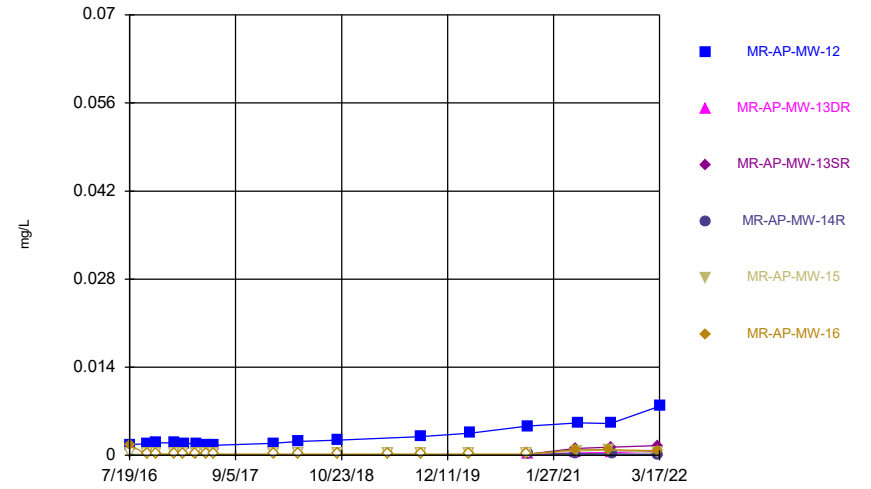
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Time Series



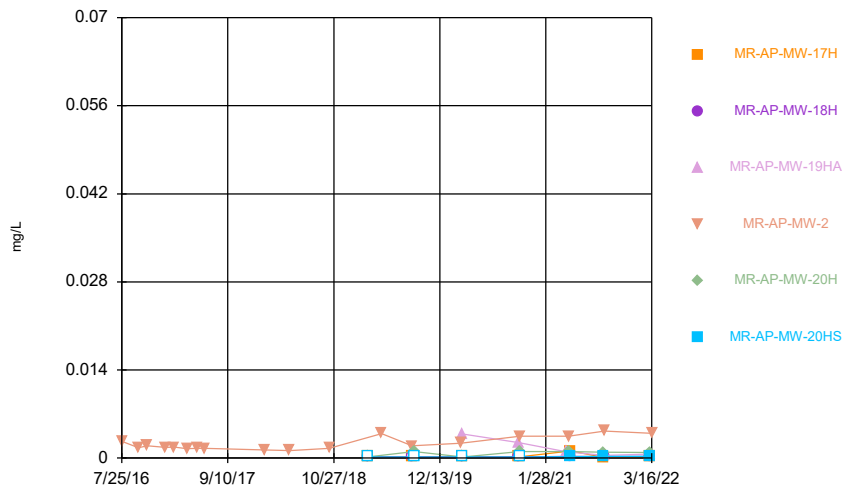
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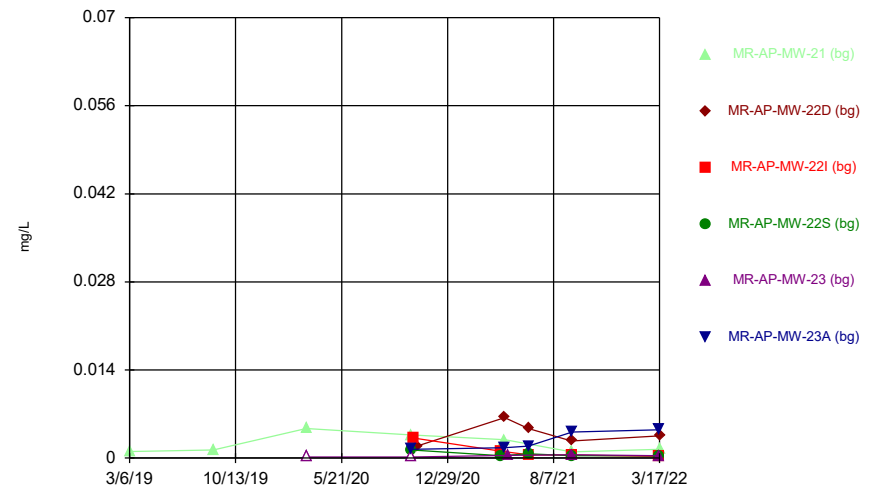
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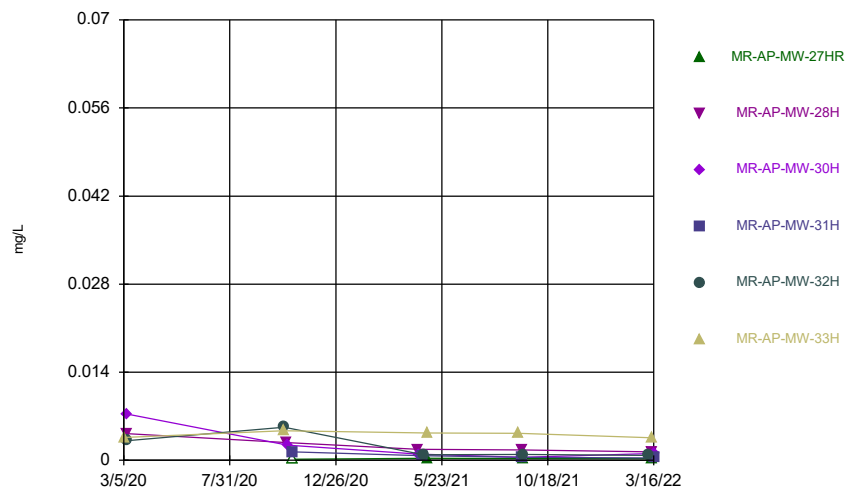
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Time Series



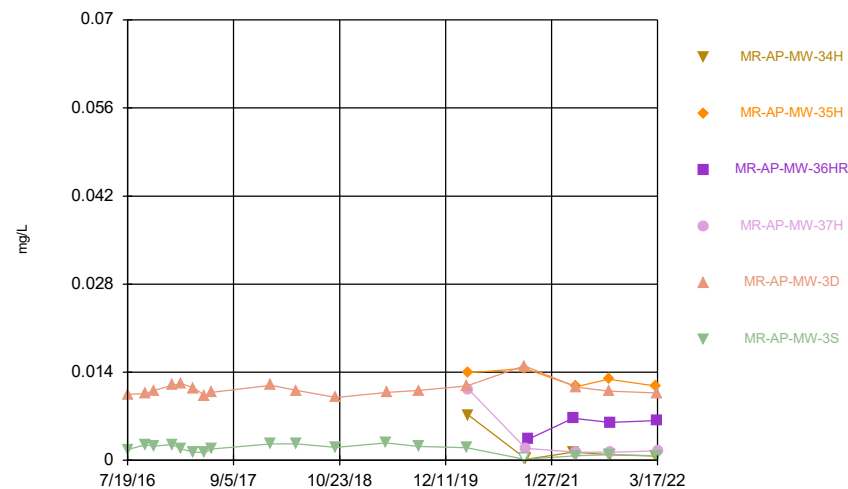
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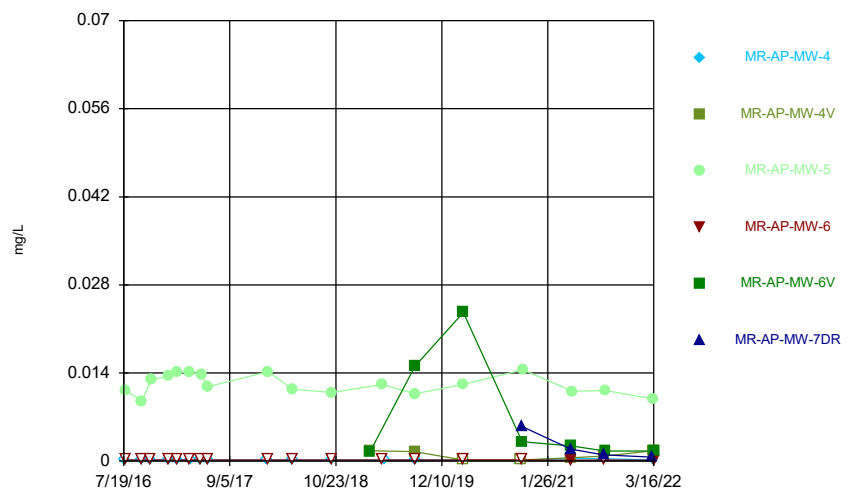
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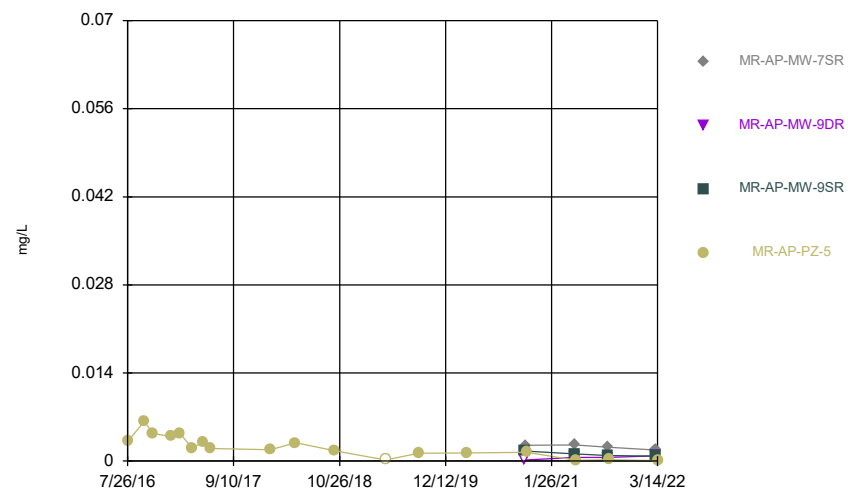
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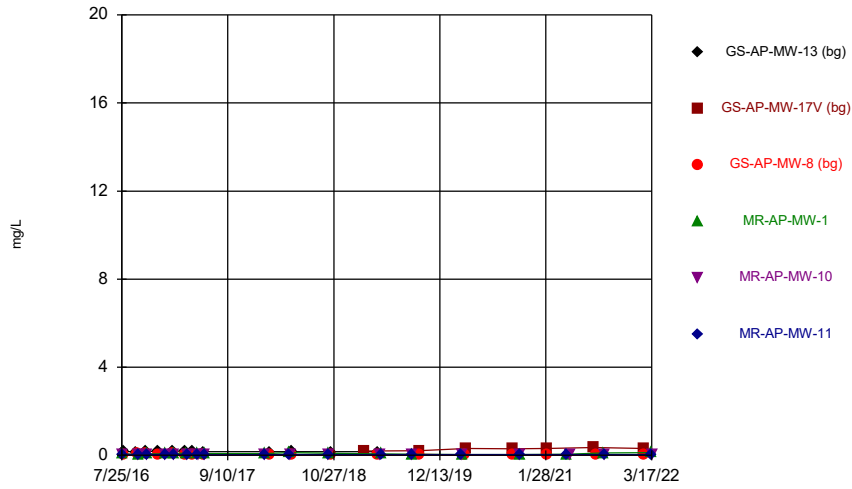
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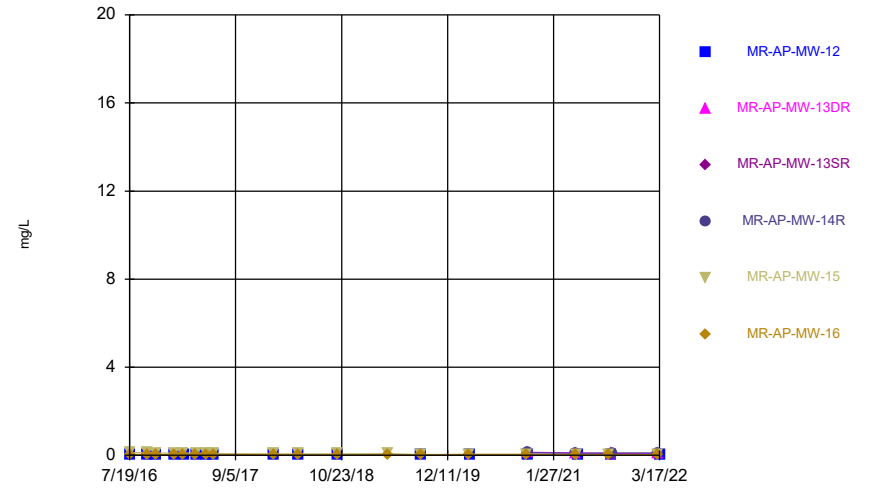
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Time Series



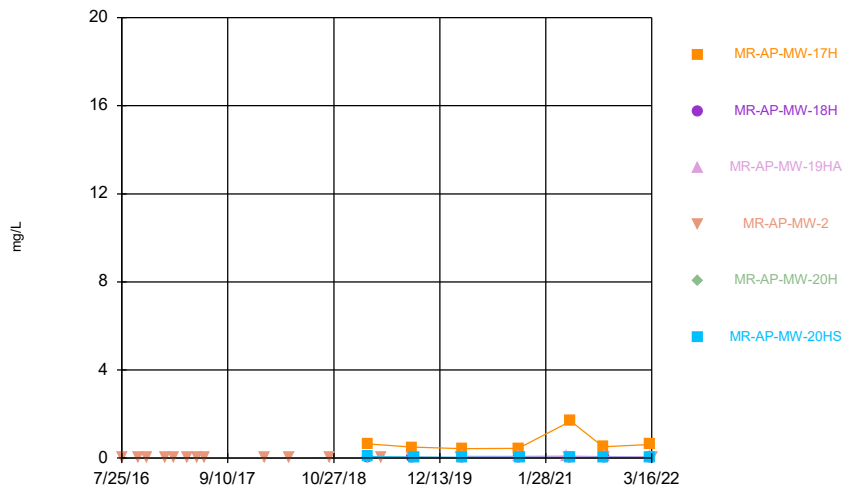
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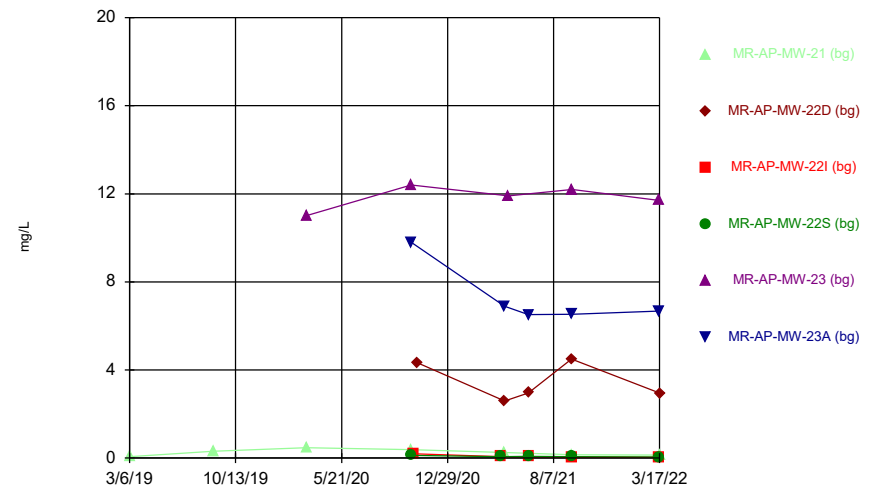
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Time Series



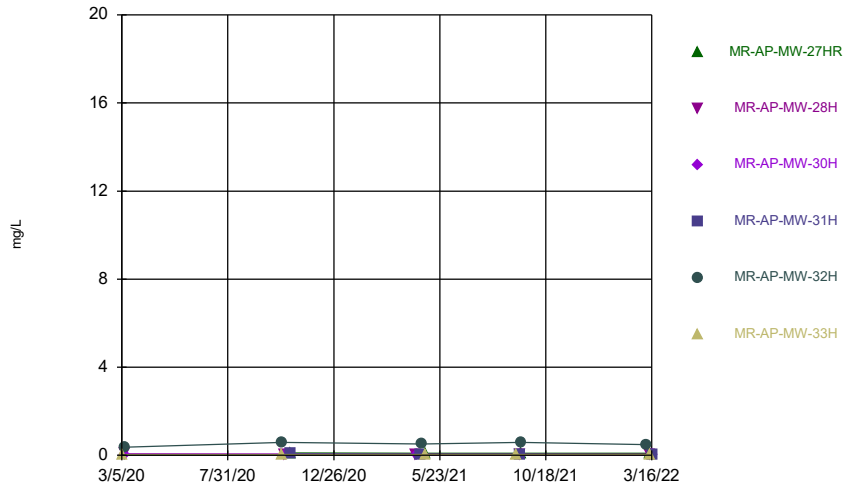
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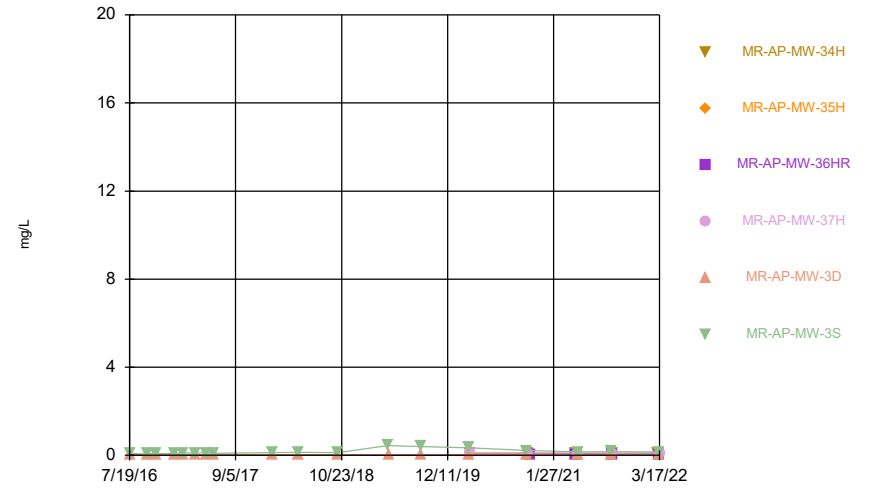
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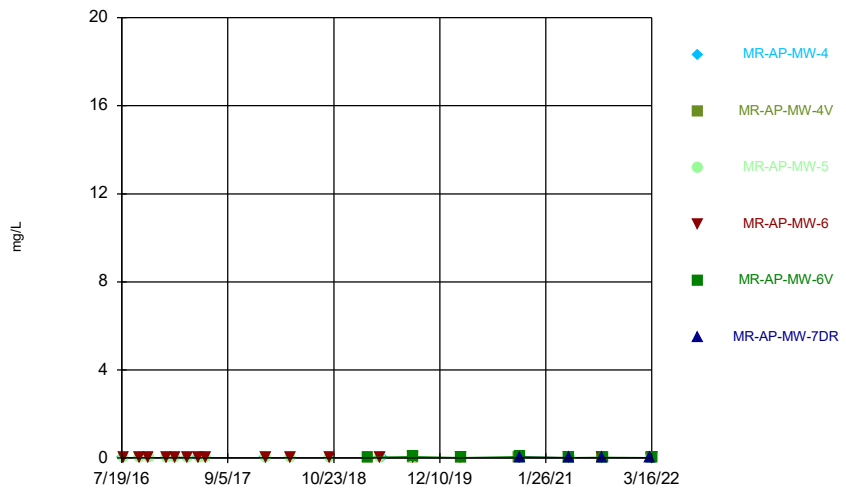
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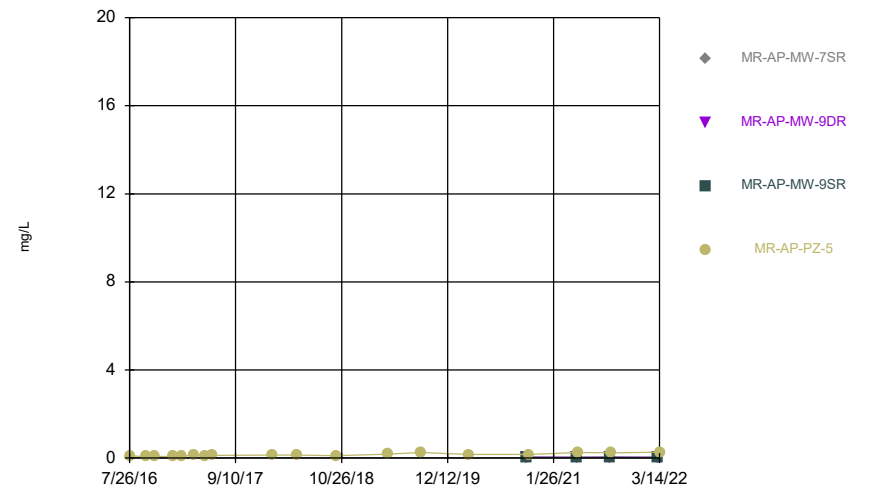
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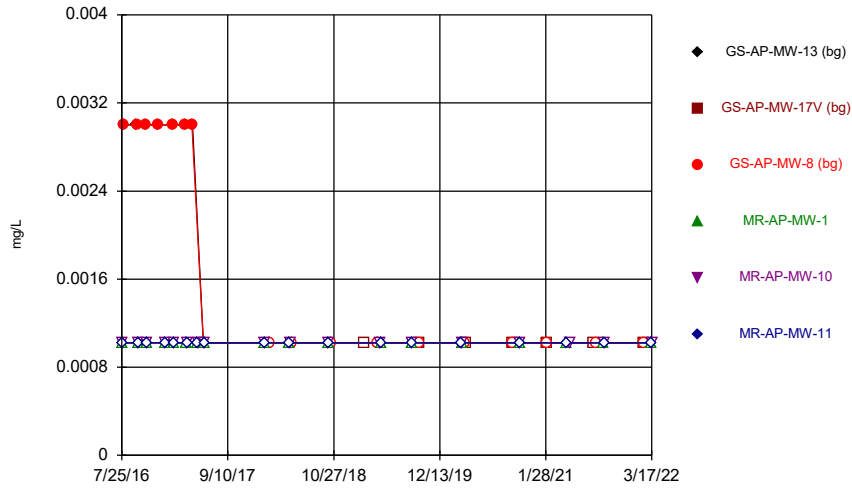
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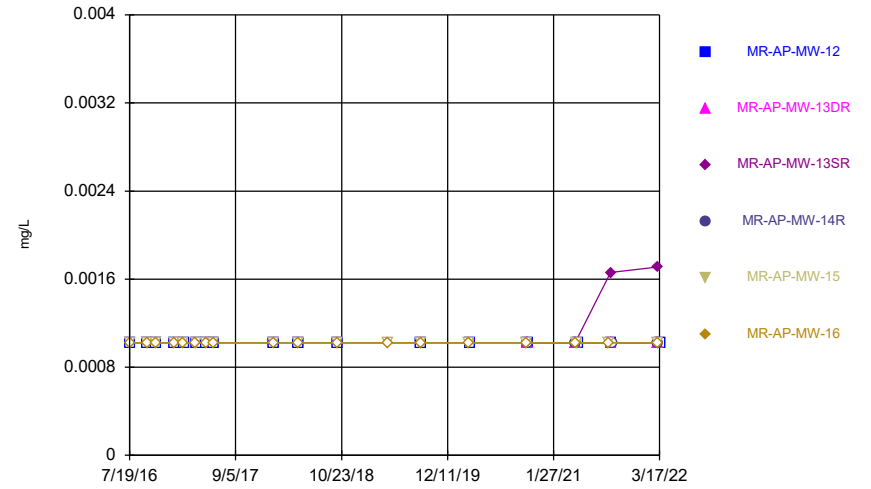


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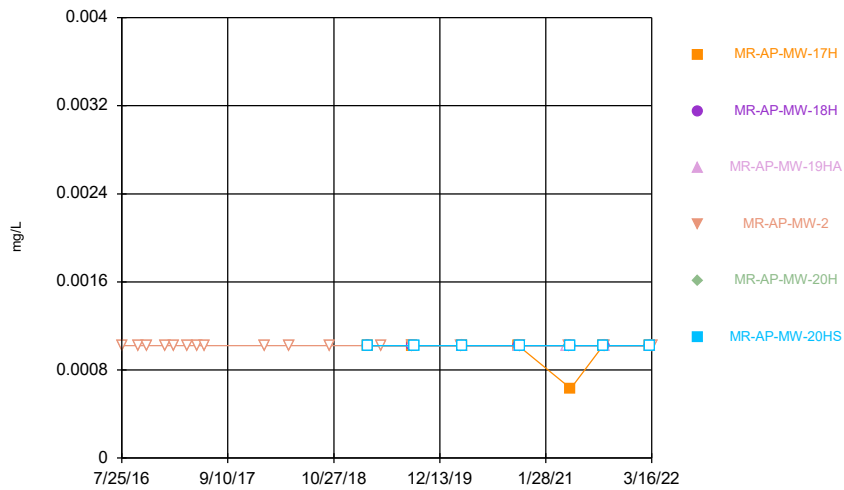
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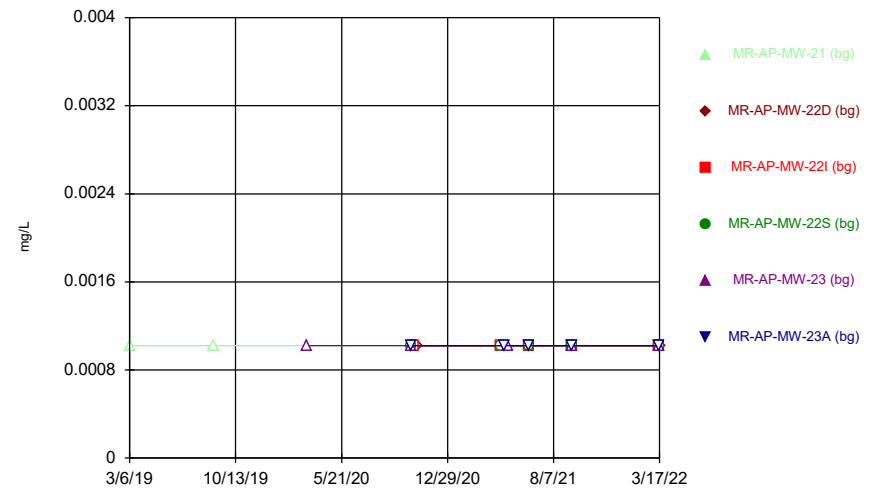
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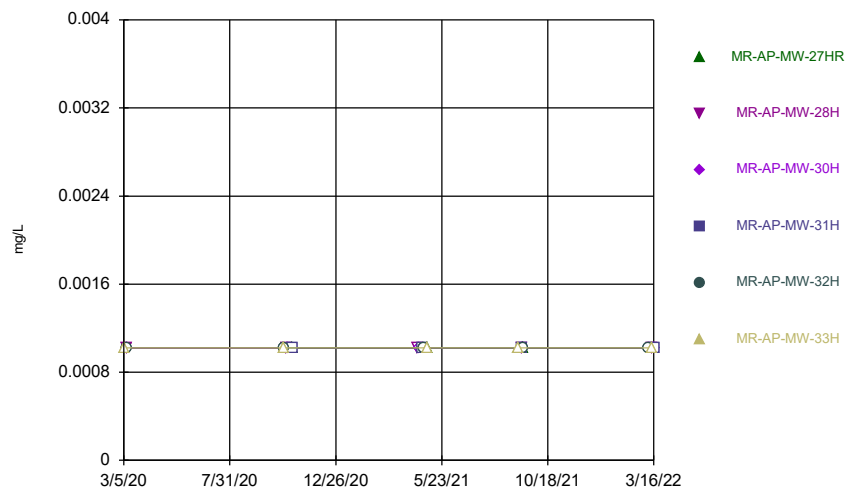
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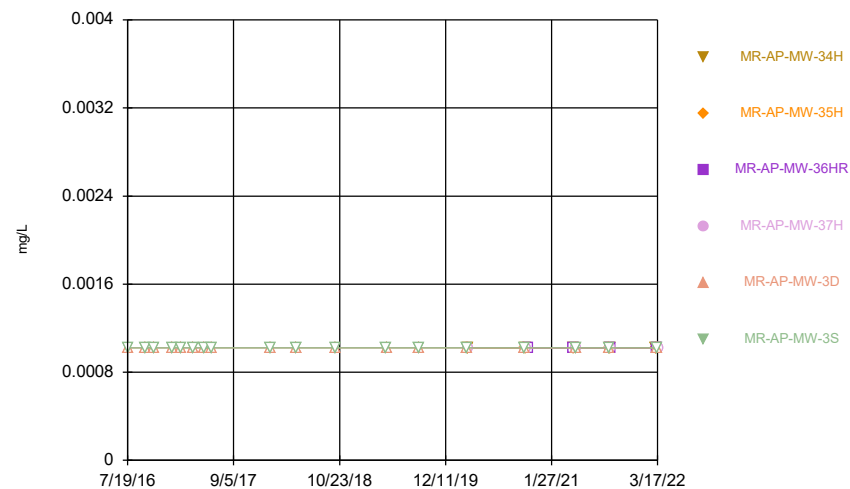
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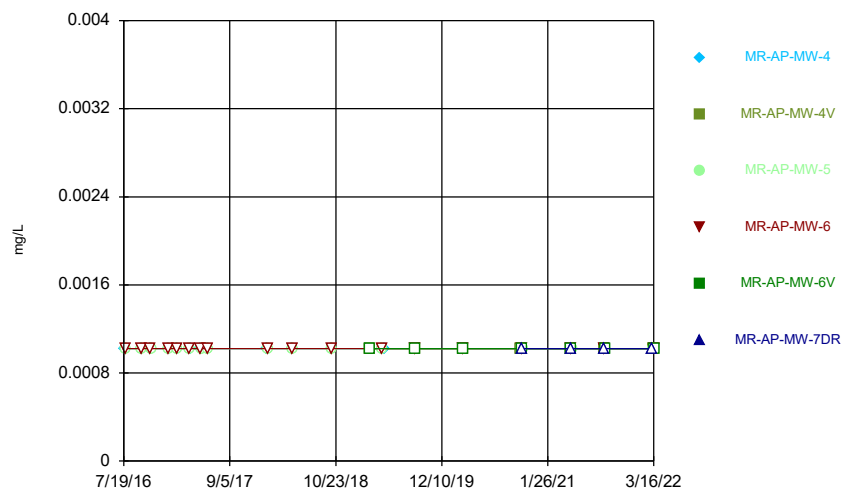
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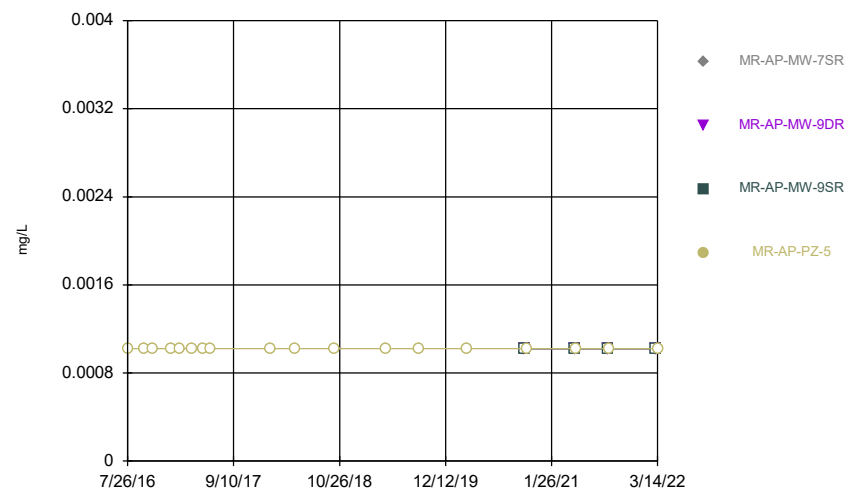
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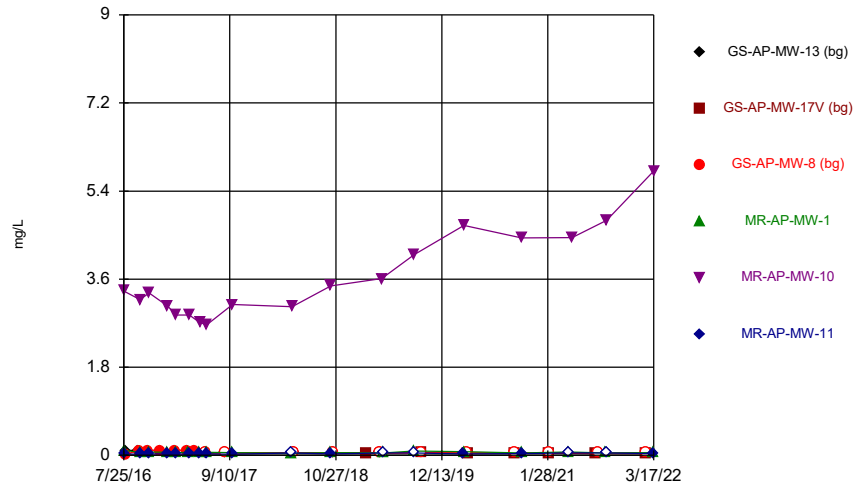
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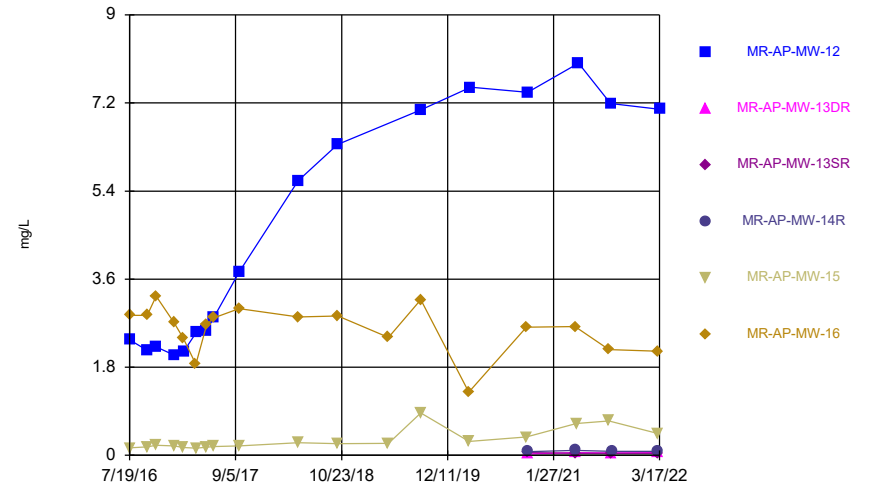
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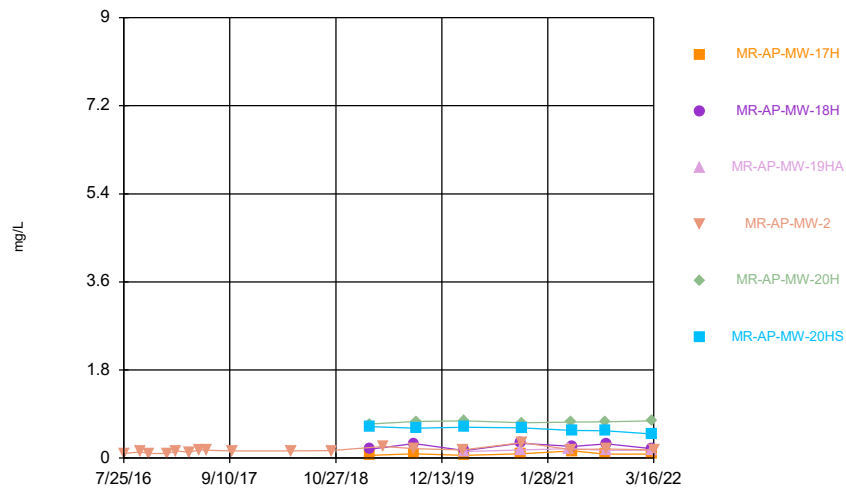
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Time Series



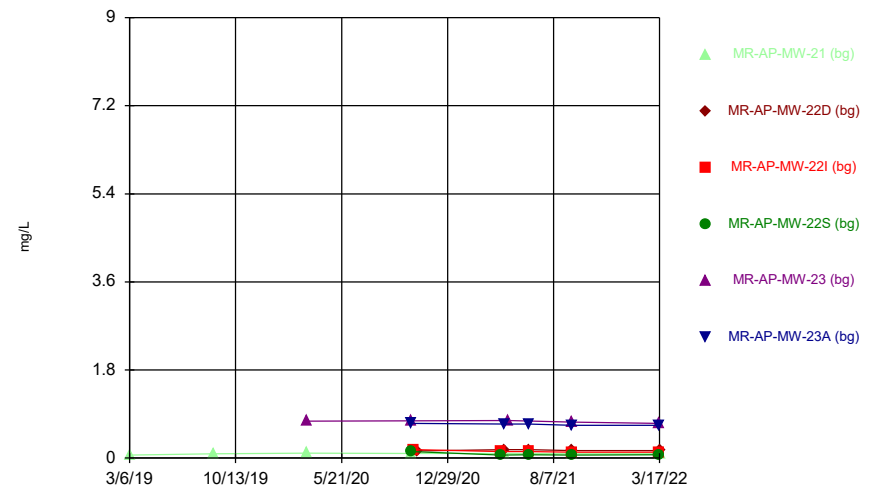
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Time Series



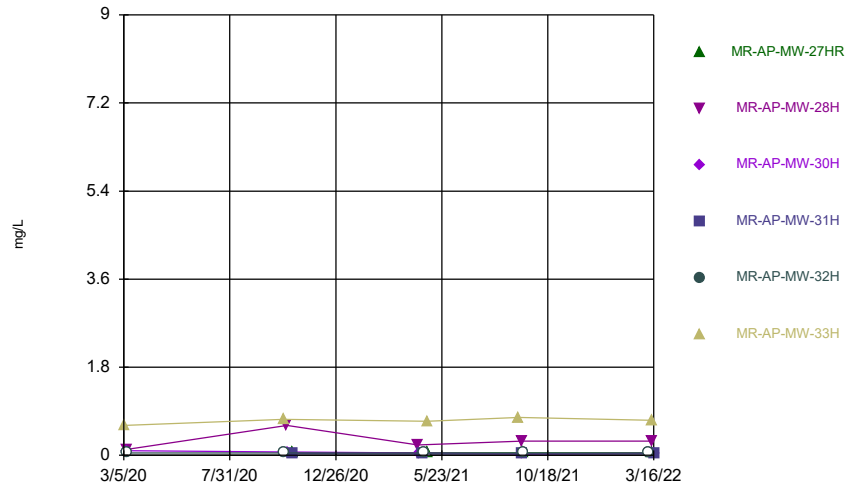
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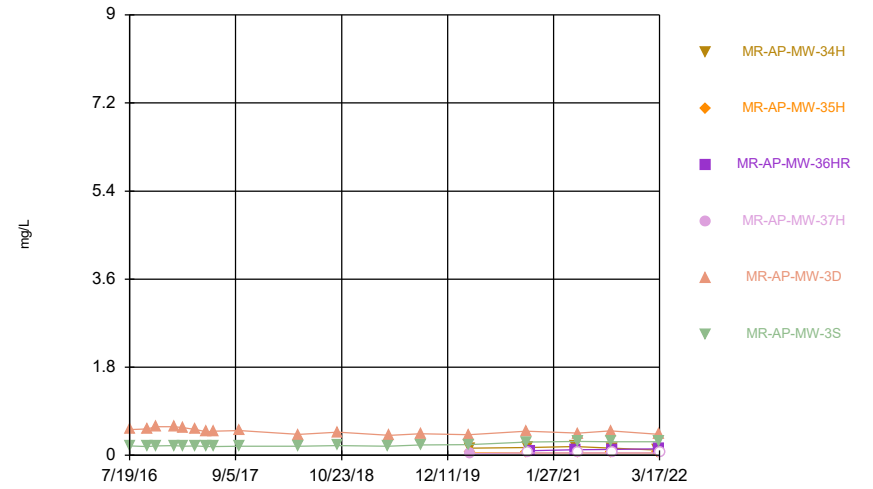
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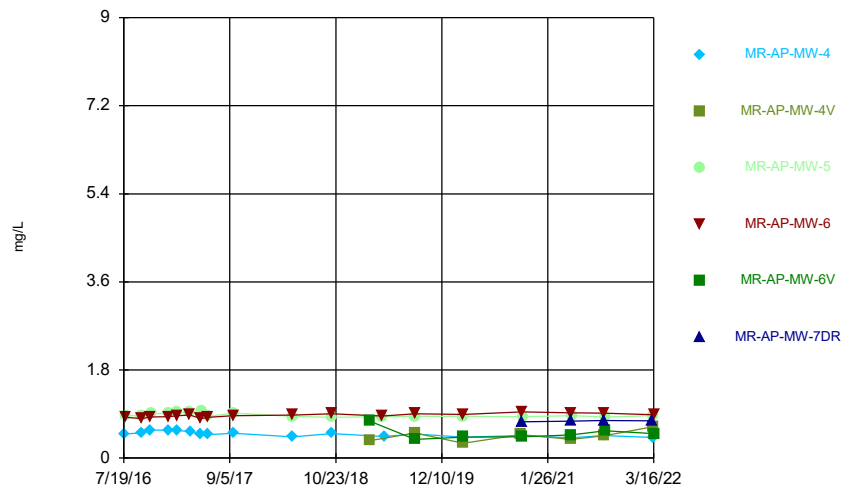
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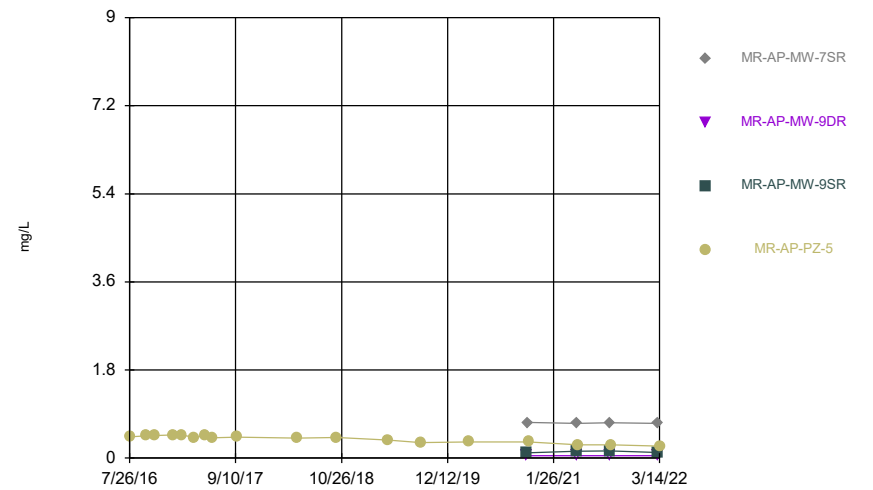
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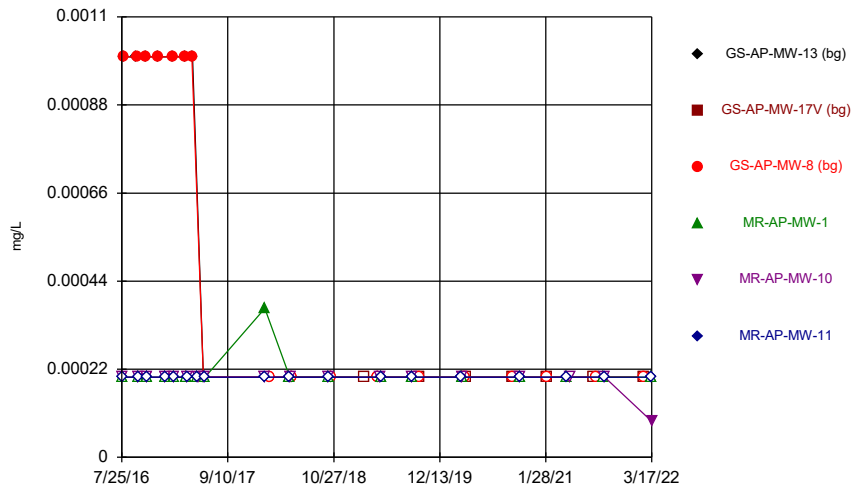
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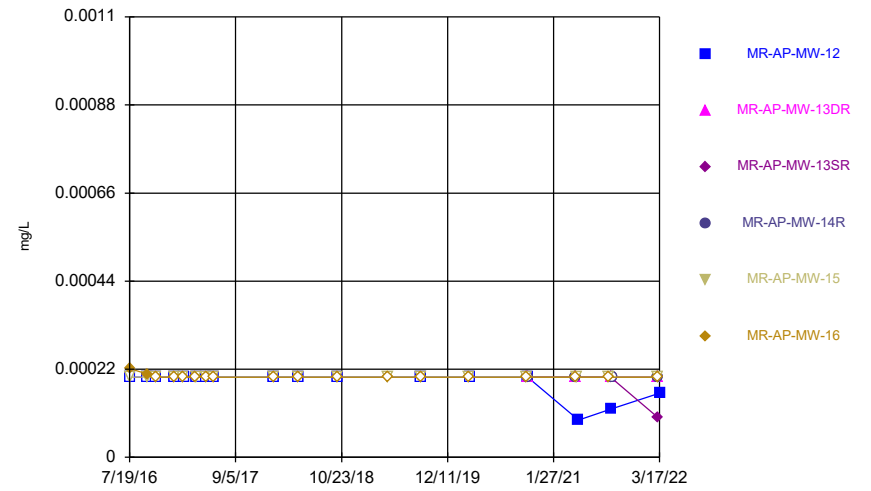
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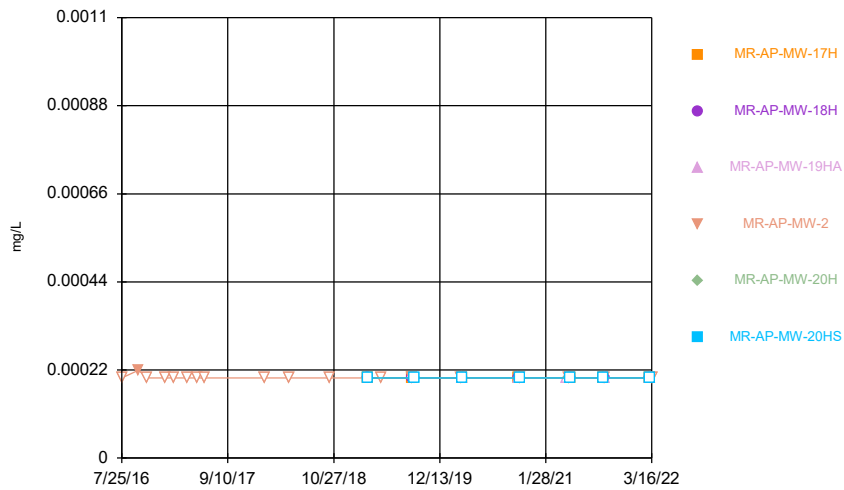
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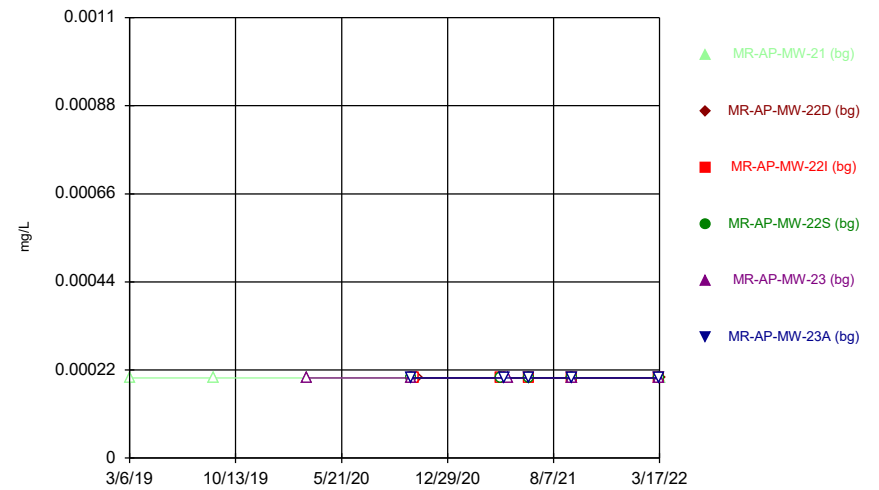
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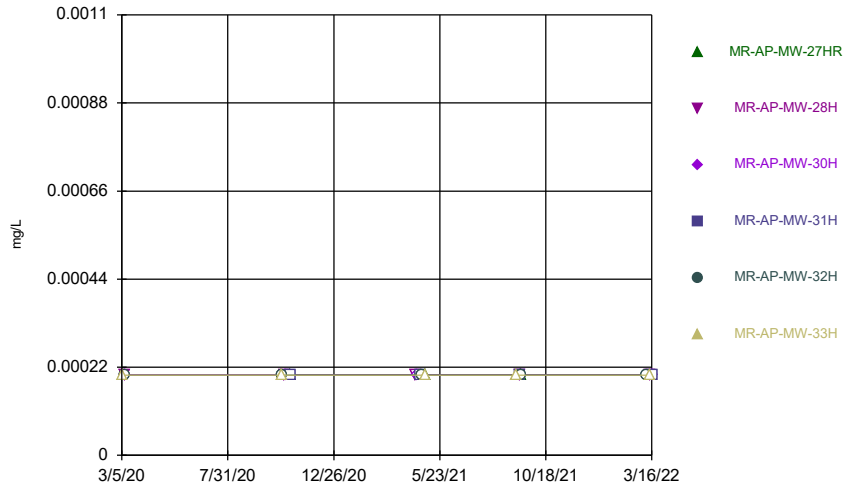
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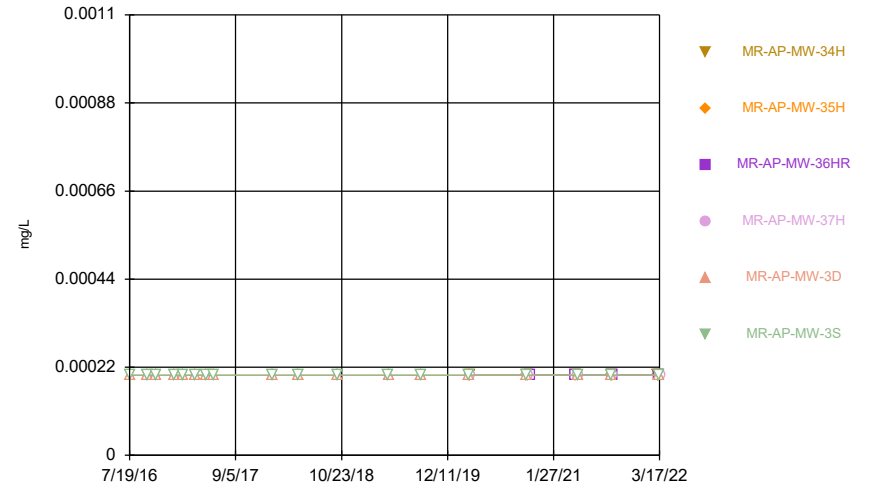
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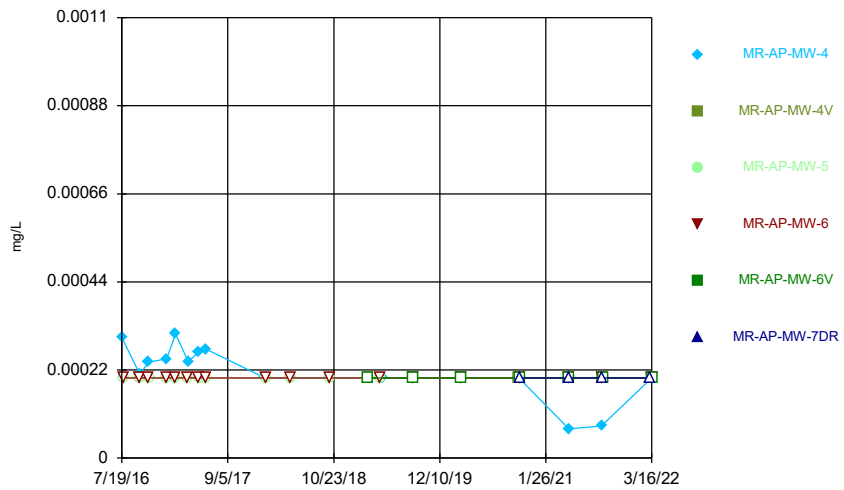
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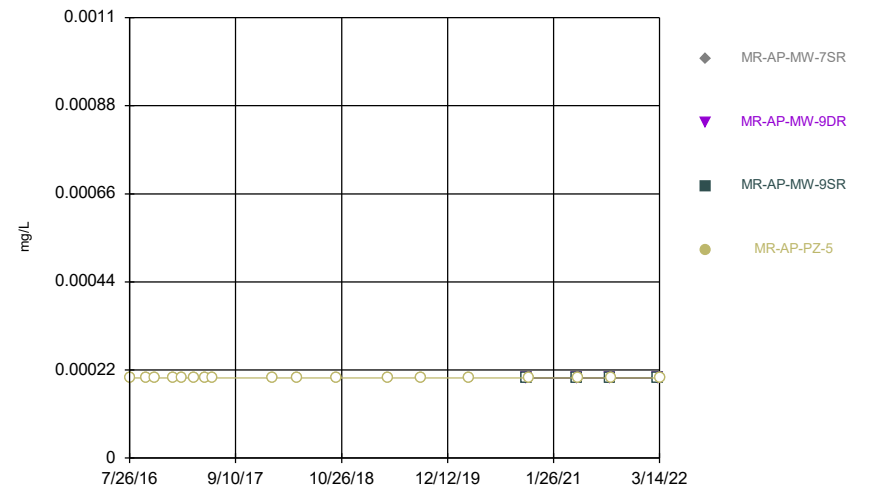
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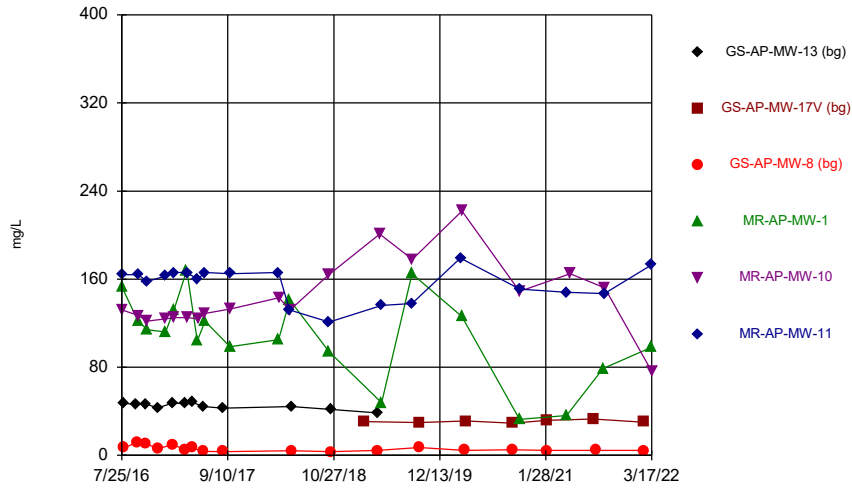
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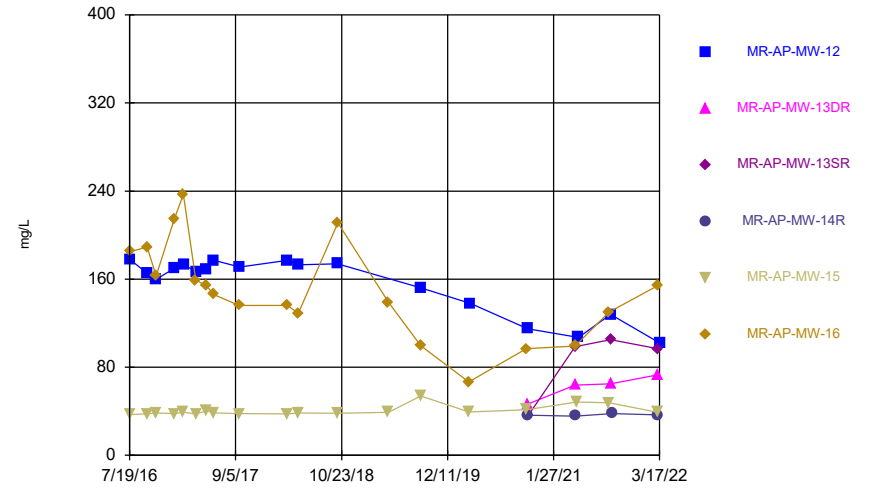
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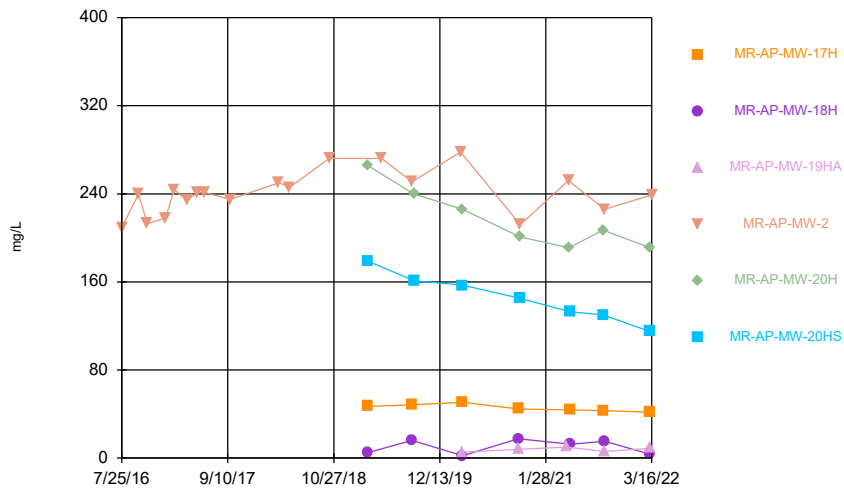
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Time Series



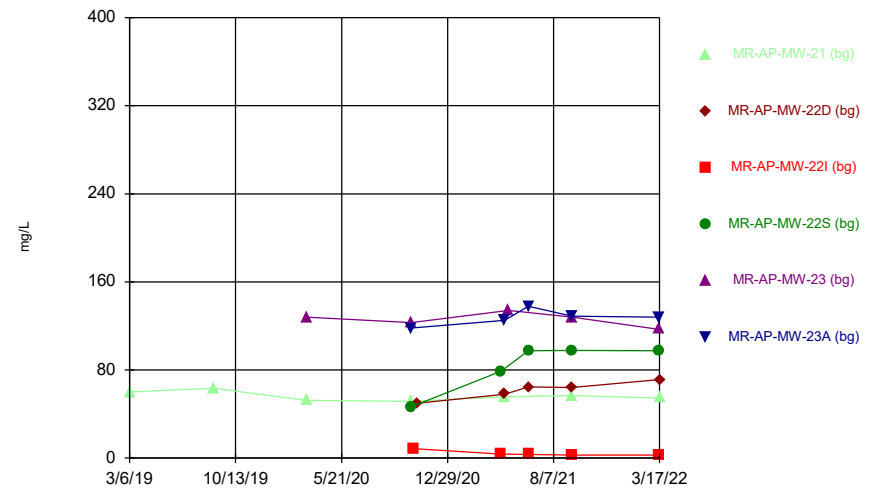
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Time Series



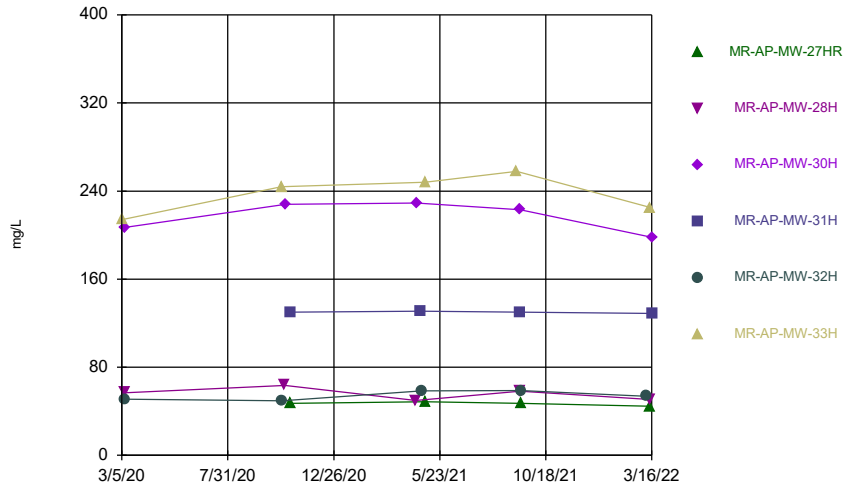
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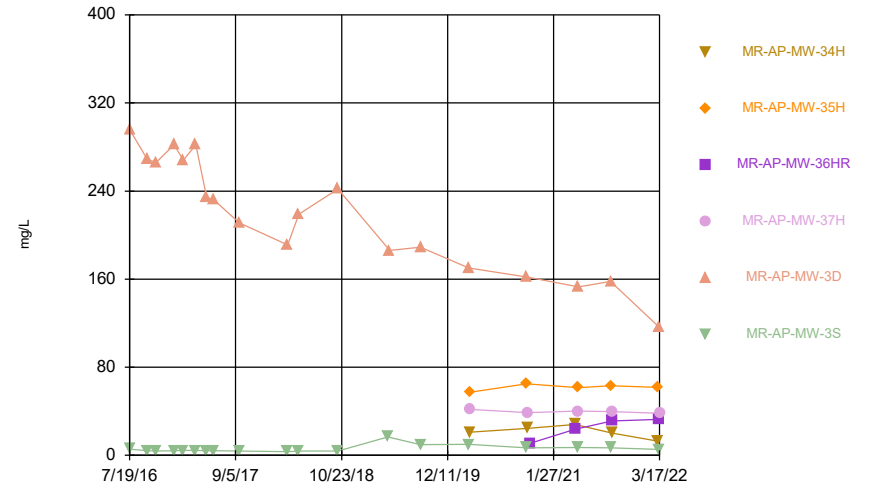
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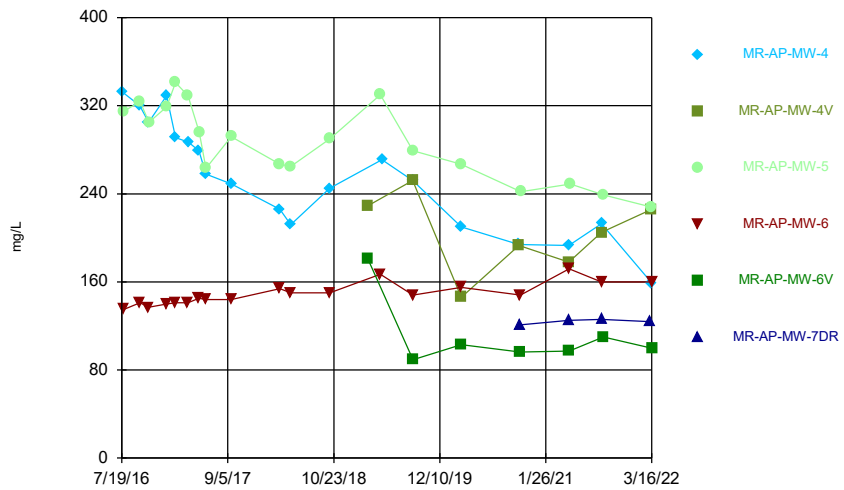
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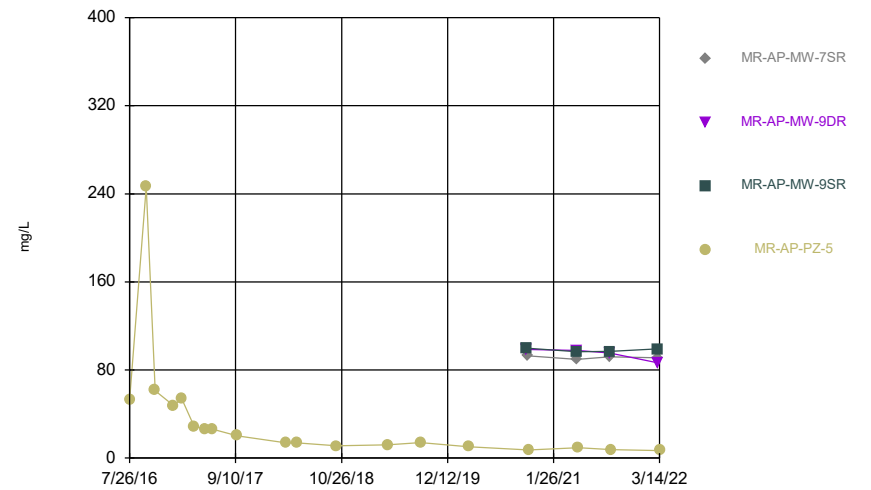
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



Constituent: Calcium, total Analysis Run 5/17/2022 5:09 PM View: Time Series and Box Plots  
Plant Miller Client: Southern Company Data: Miller Ash Pond

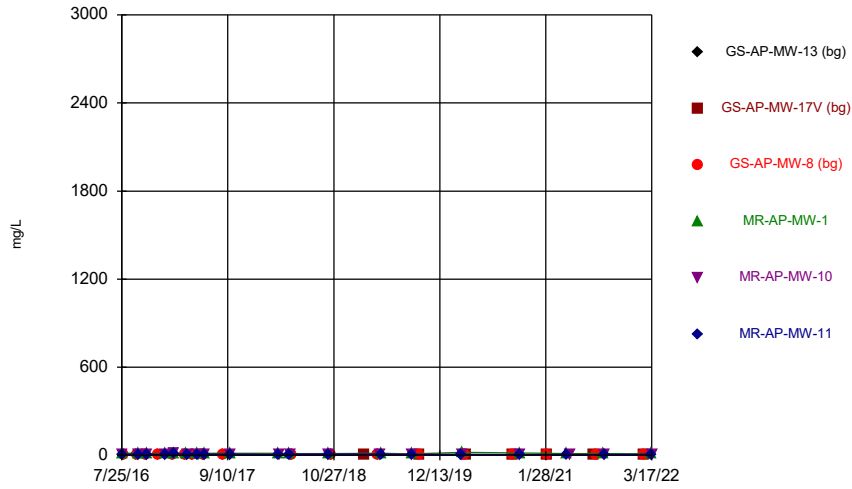
Time Series



Constituent: Calcium, total Analysis Run 5/17/2022 5:09 PM View: Time Series and Box Plots  
Plant Miller Client: Southern Company Data: Miller Ash Pond

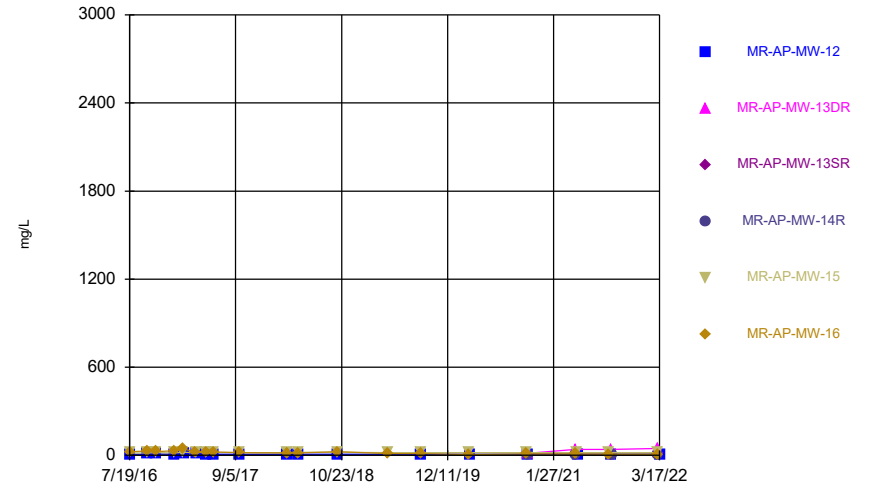


Time Series



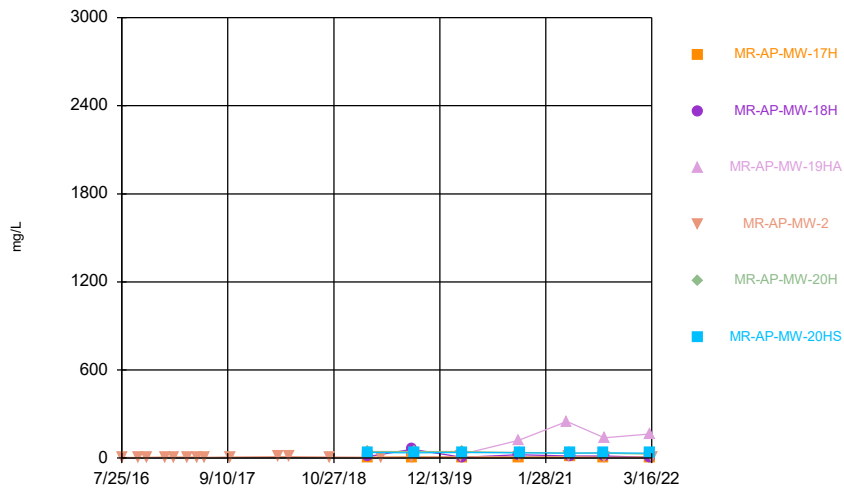
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



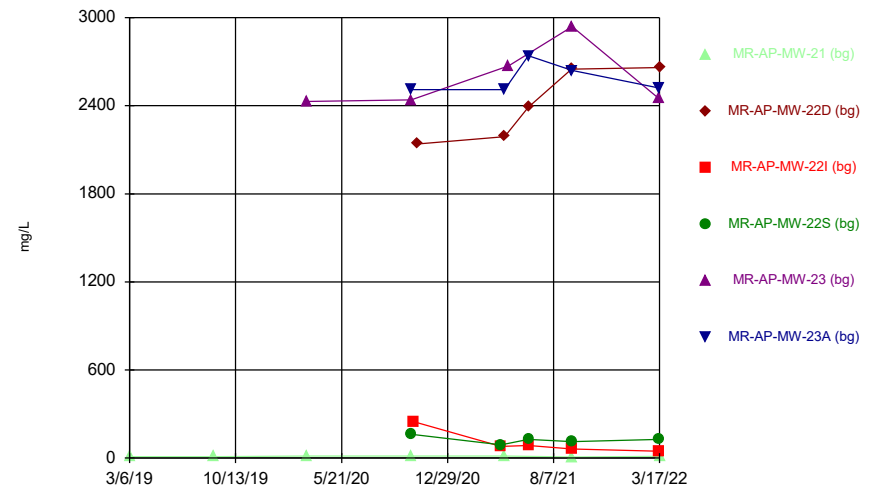
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Time Series



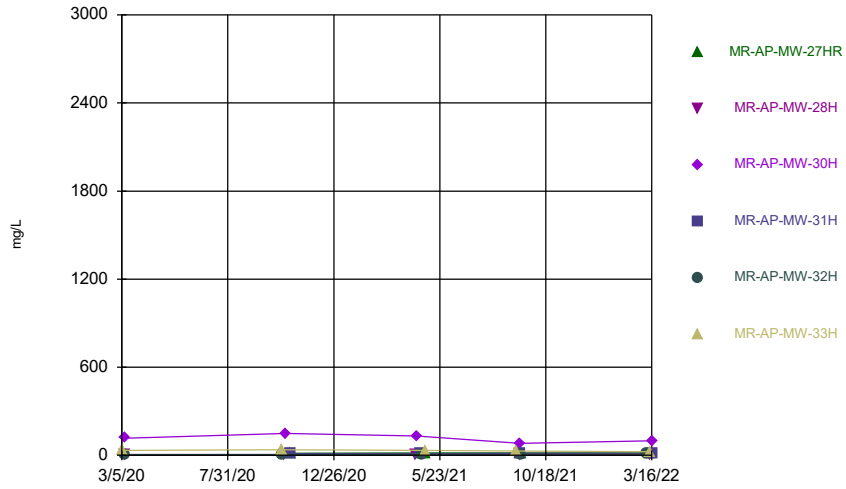
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Time Series



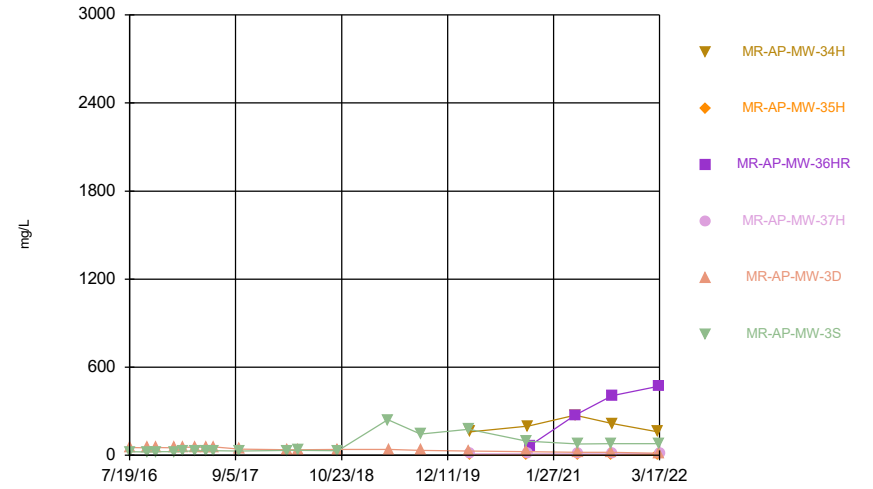
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### Time Series



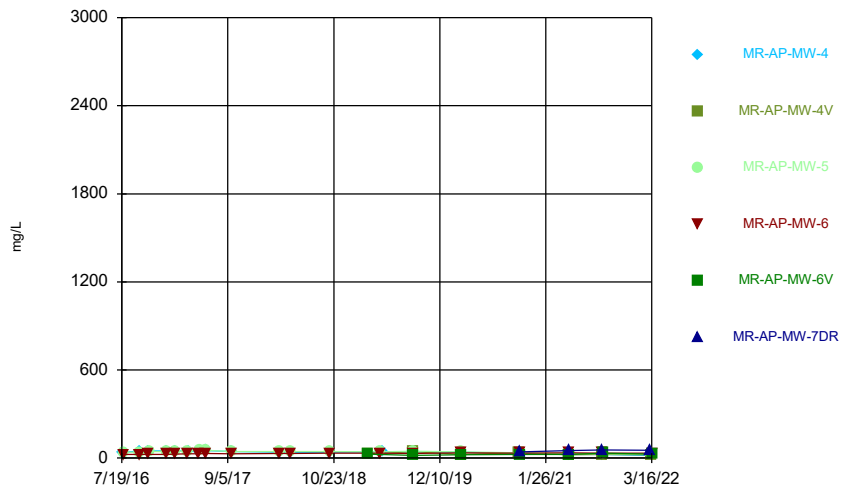
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### Time Series



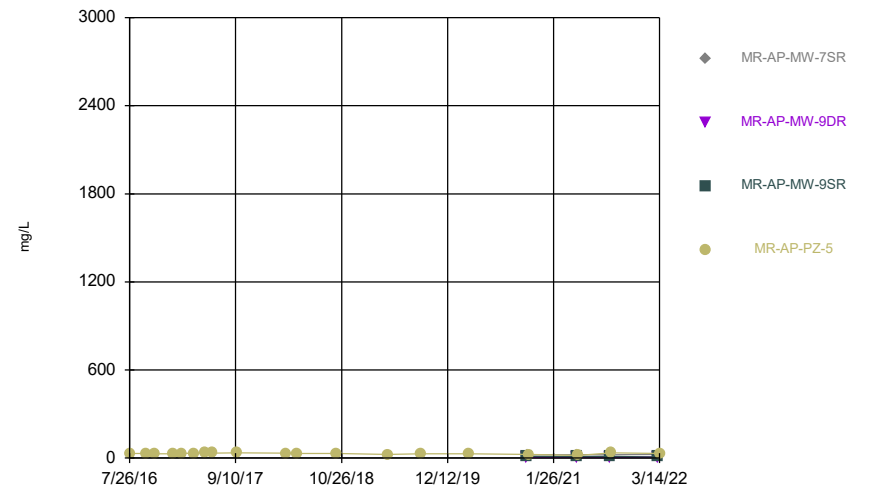
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### Time Series



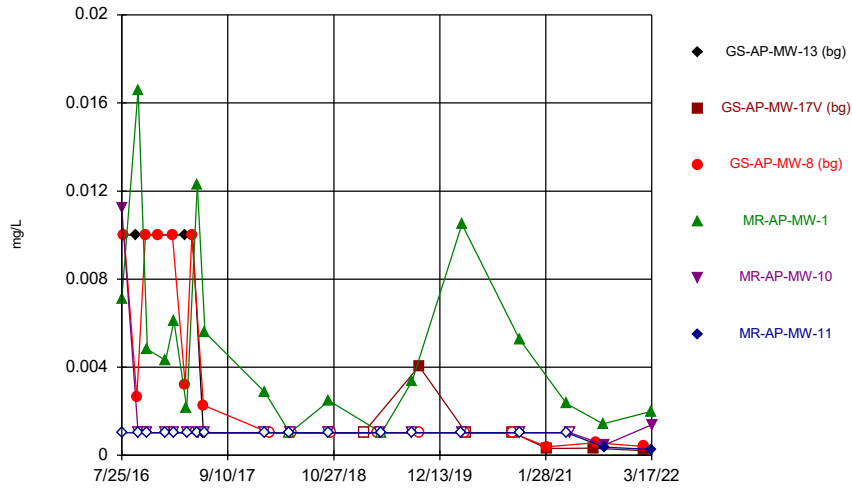
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### Time Series



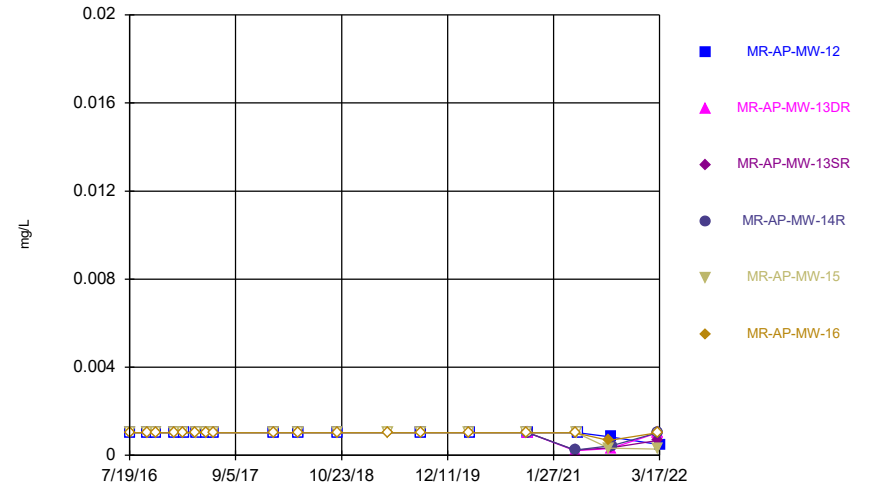
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Time Series



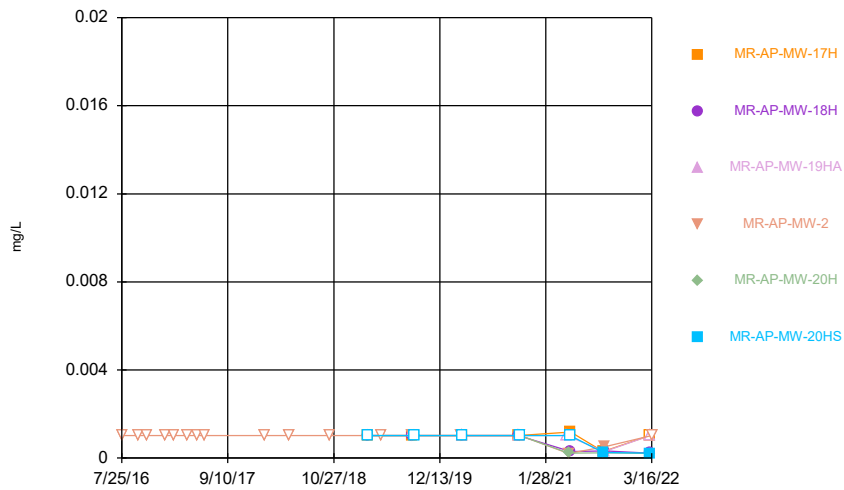
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Plant Miller Client: Southern Company Data: Miller Ash Pond

### Time Series



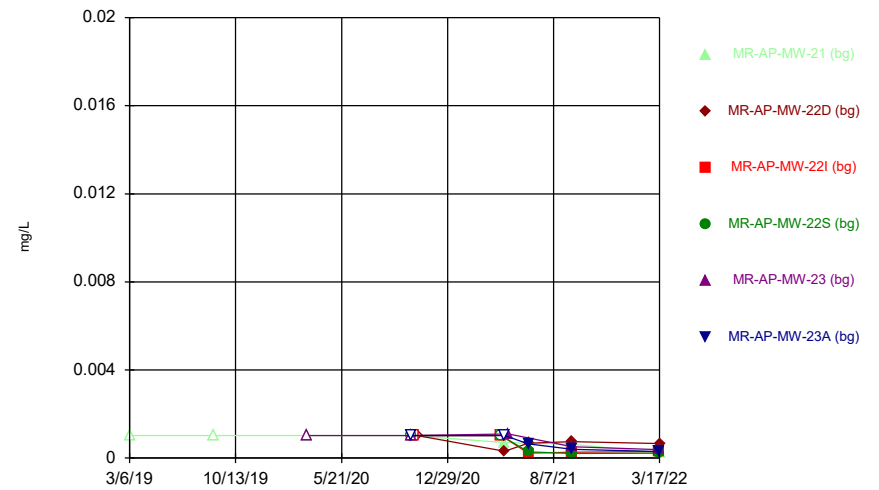
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Plant Miller Client: Southern Company Data: Miller Ash Pond

### Time Series



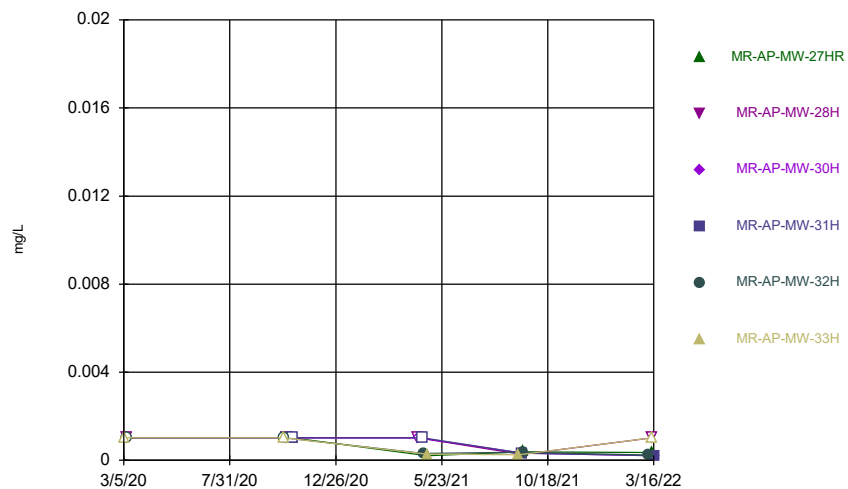
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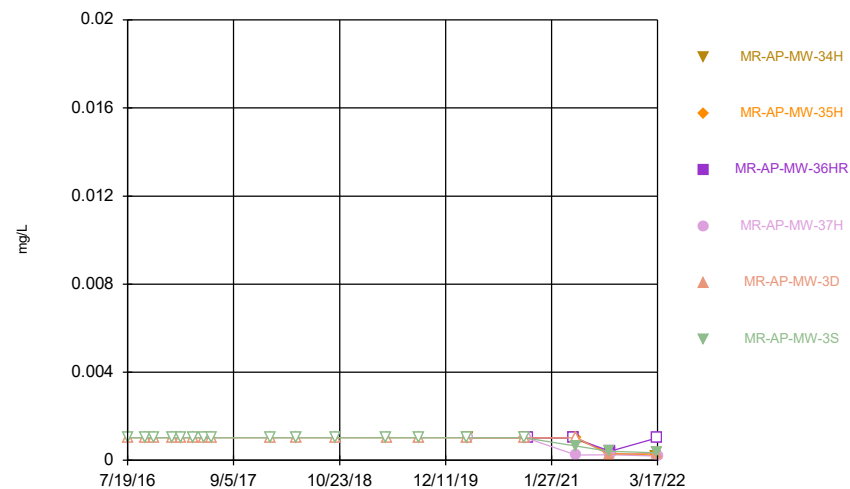
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### Time Series



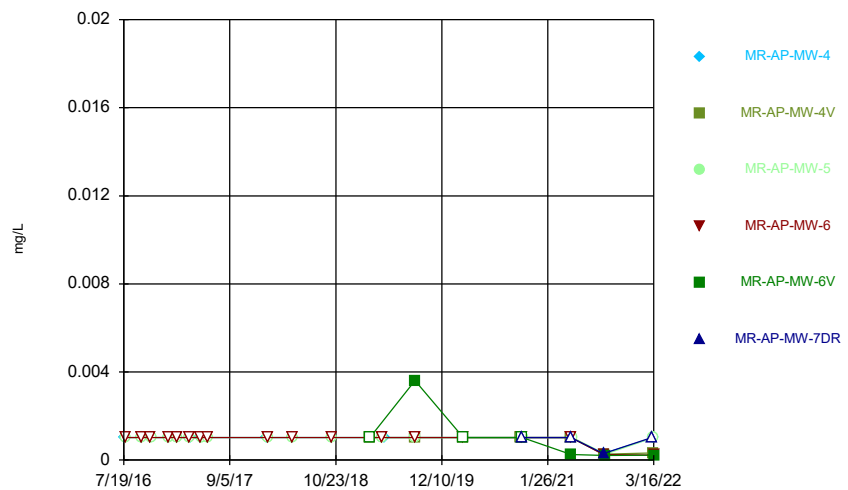
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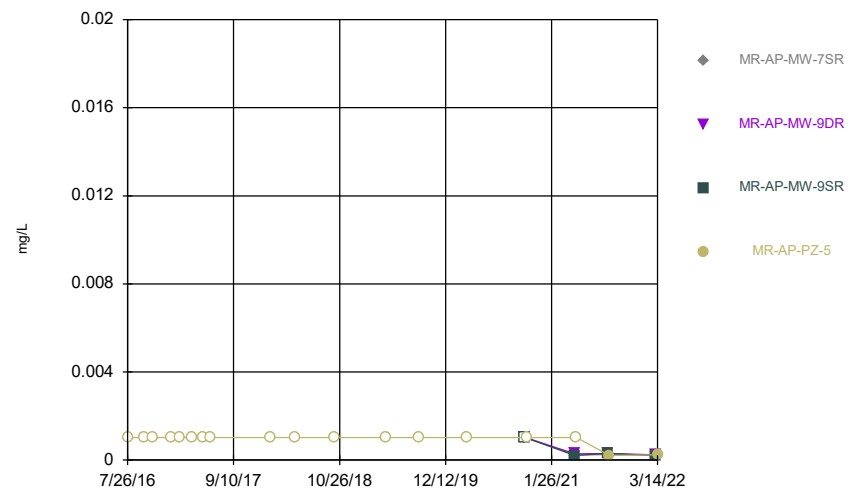
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### Time Series



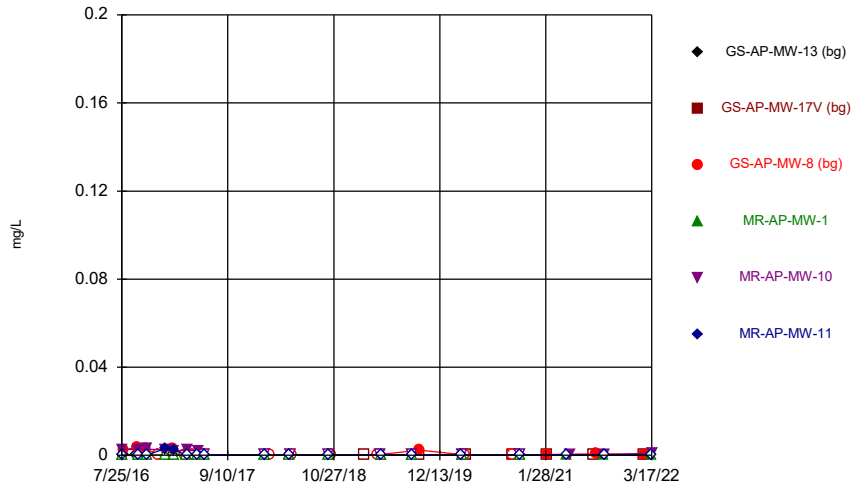
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### Time Series



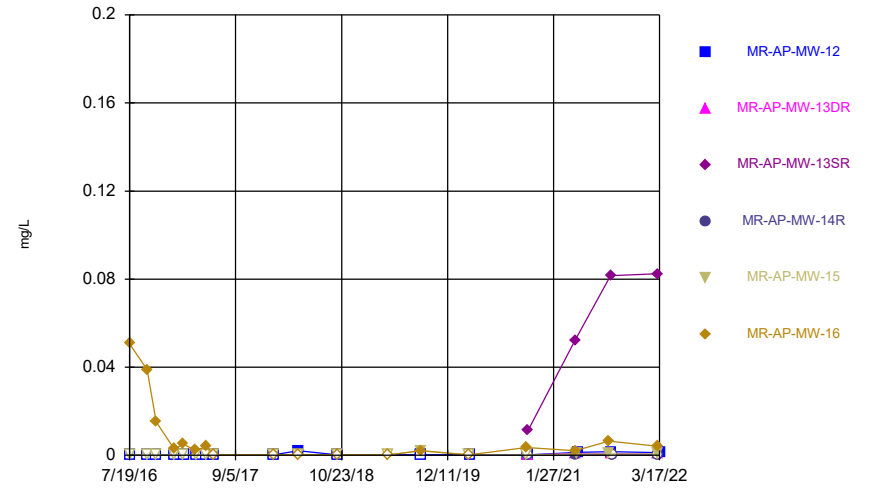
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



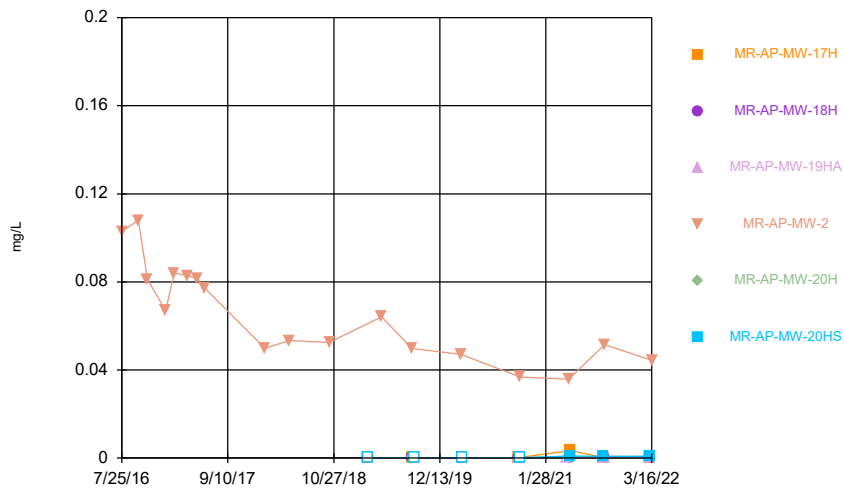
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Time Series



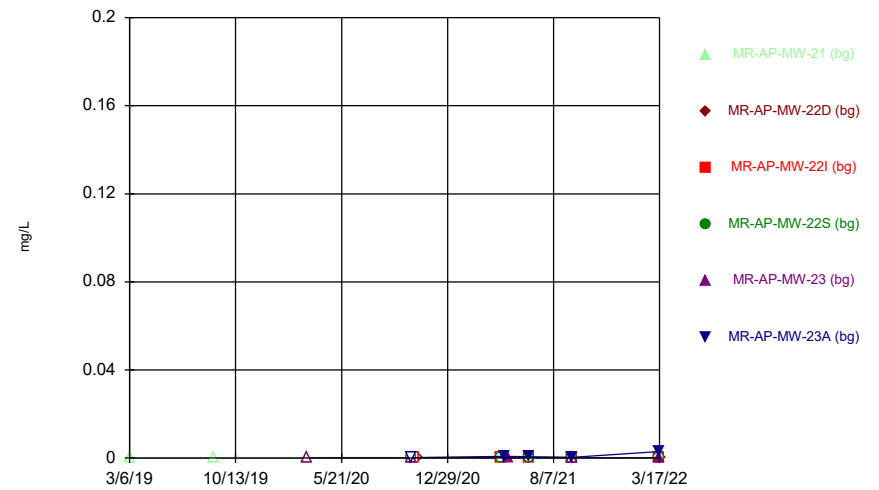
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Time Series



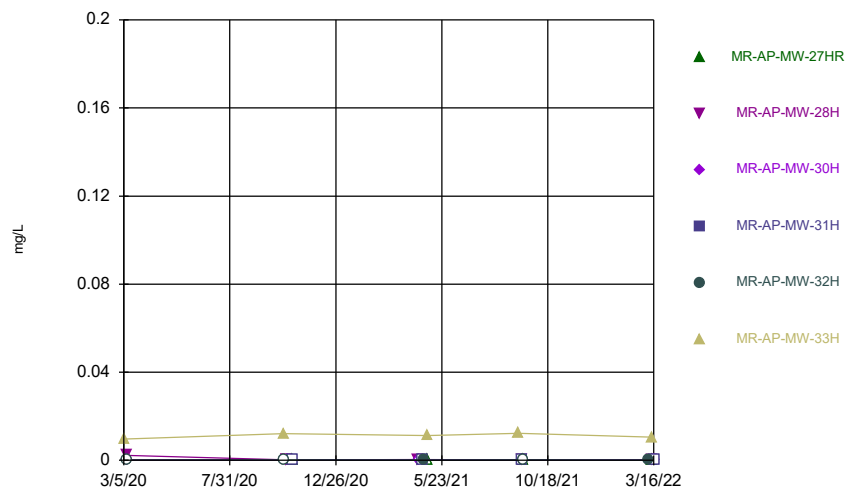
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Time Series



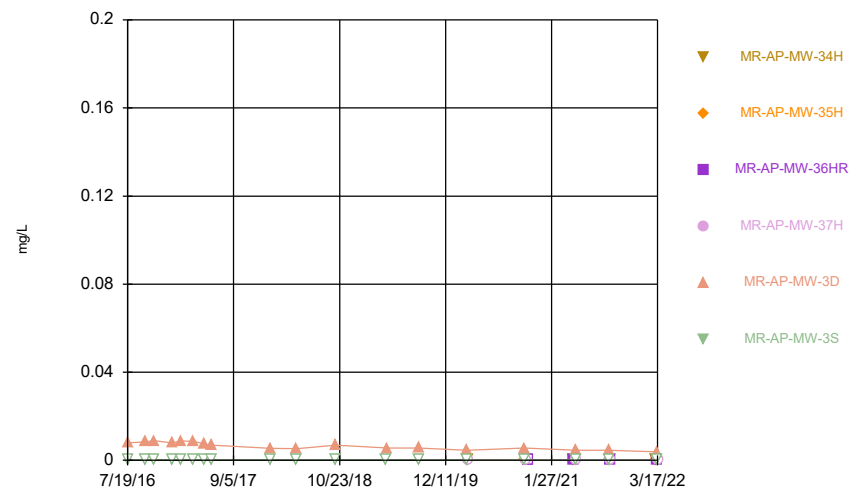
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### Time Series



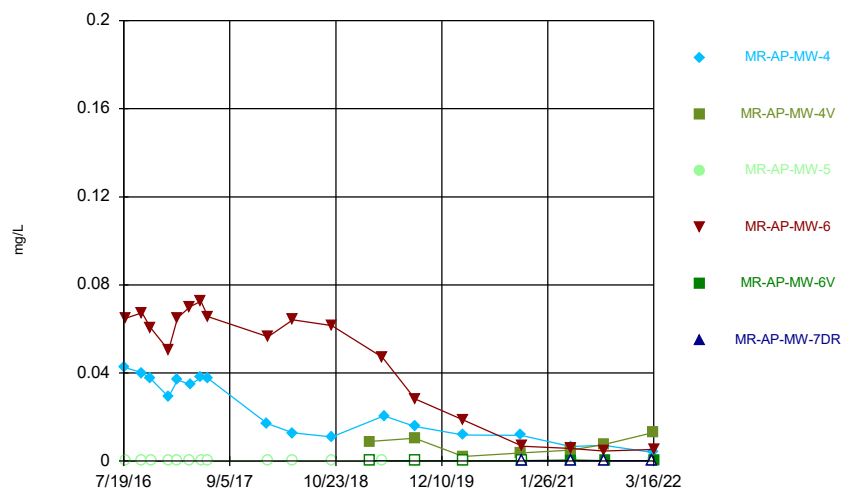
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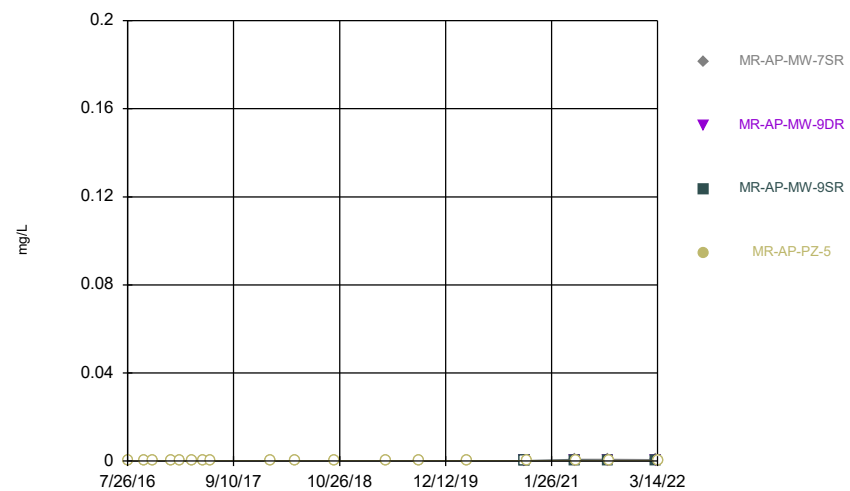
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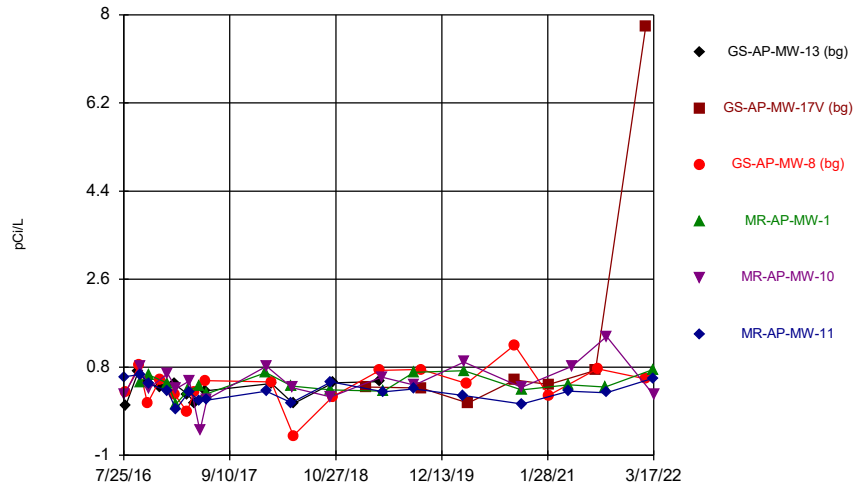
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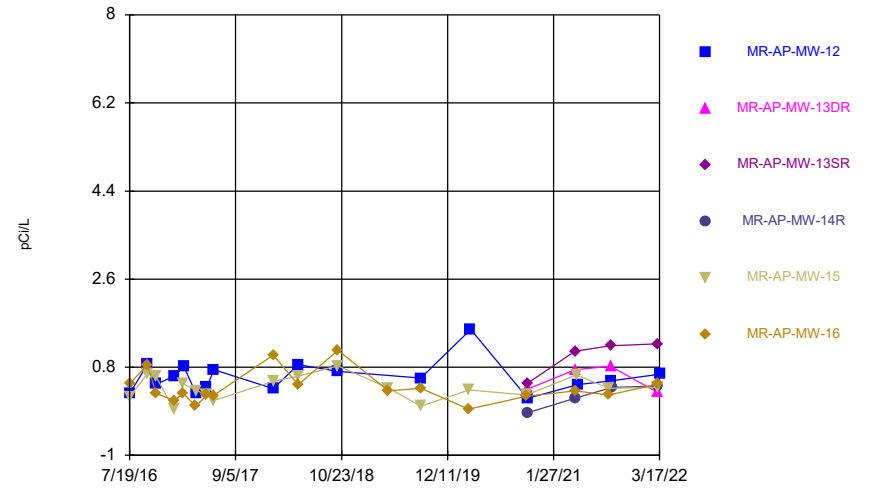
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Time Series



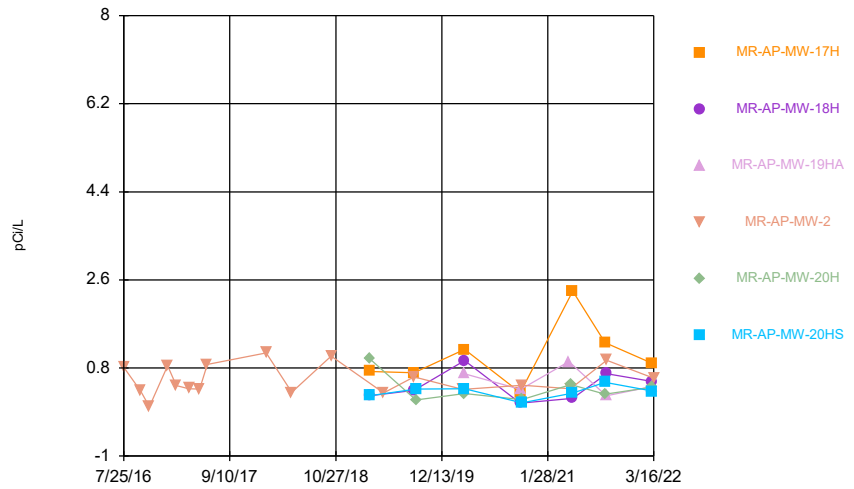
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Time Series



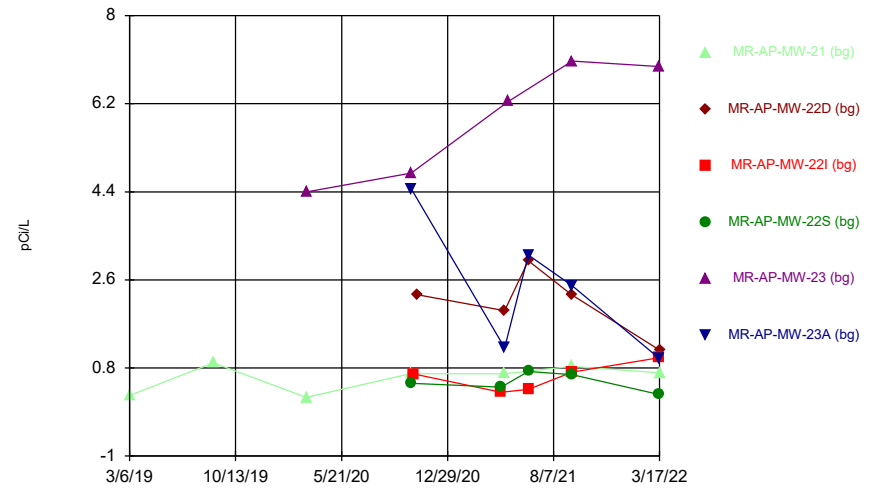
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Time Series



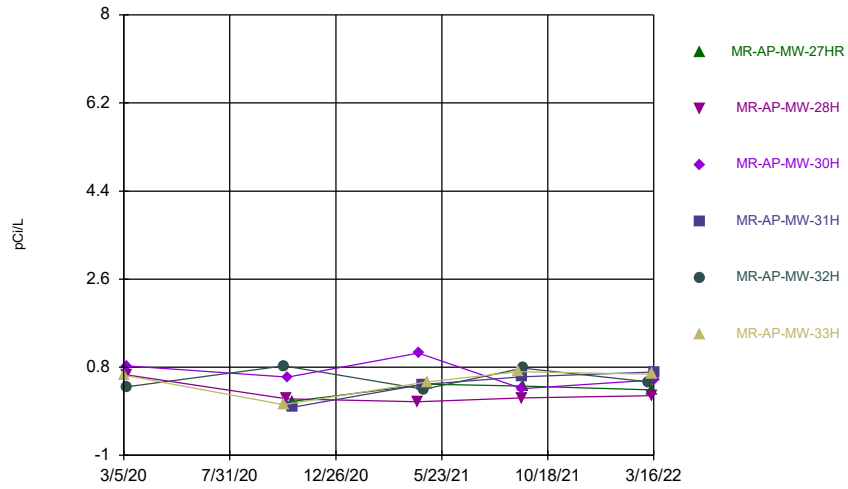
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Time Series



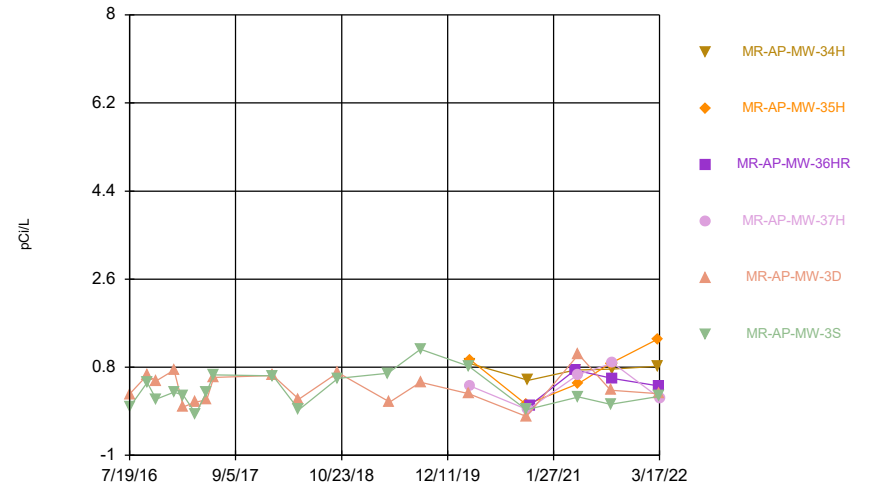
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### Time Series



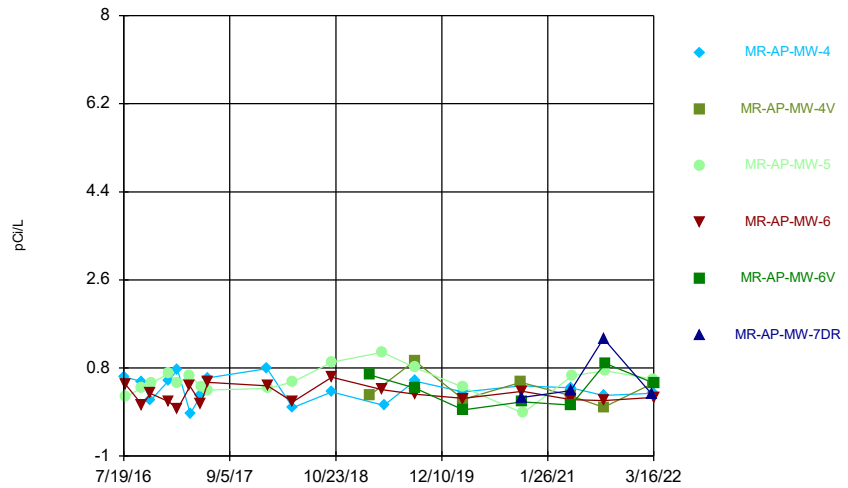
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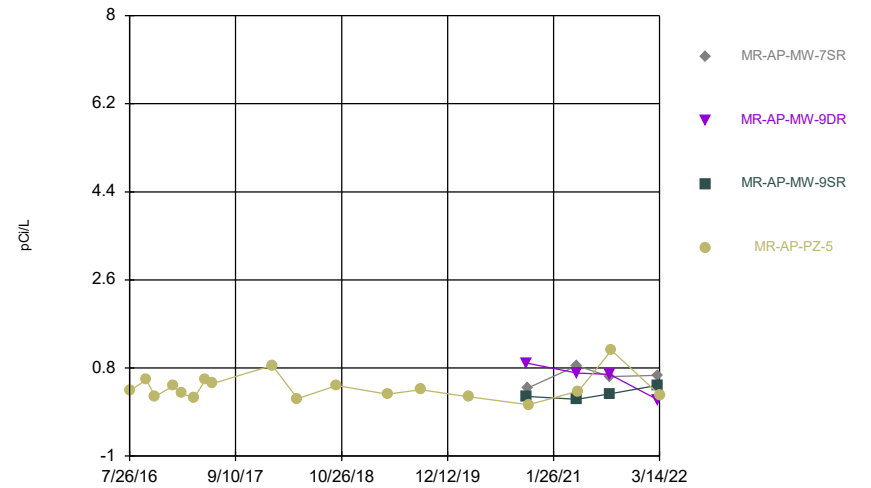
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### Time Series



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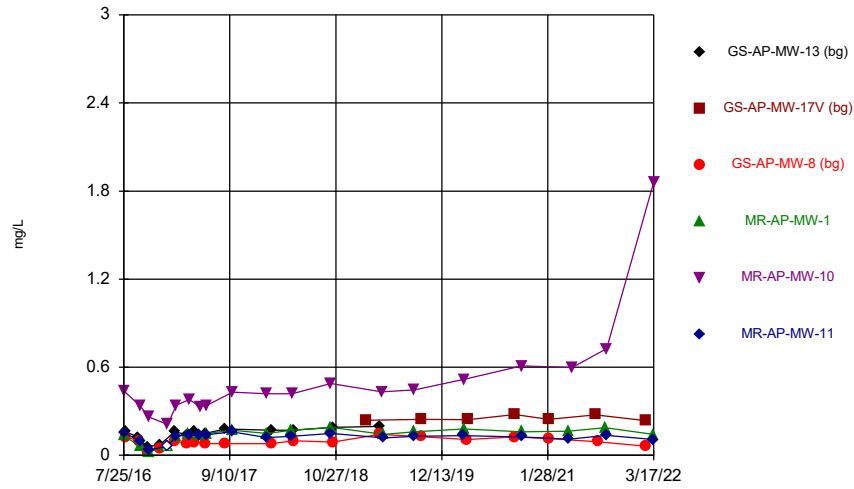
### Time Series



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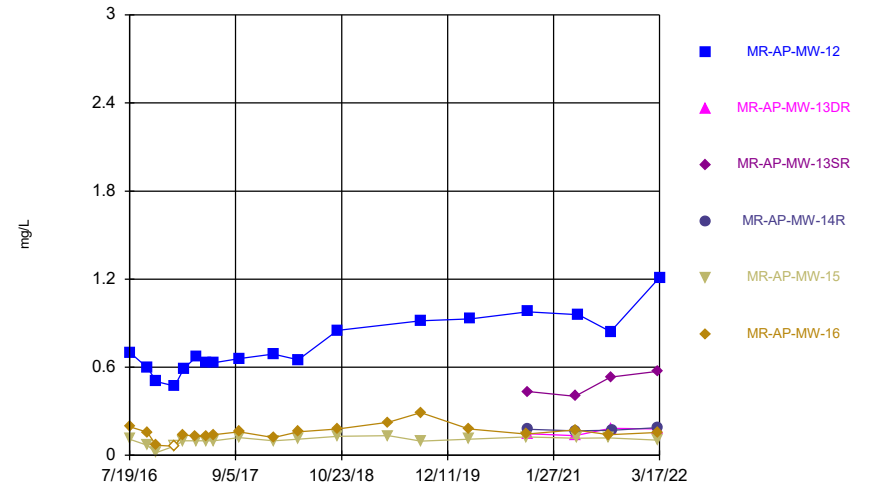


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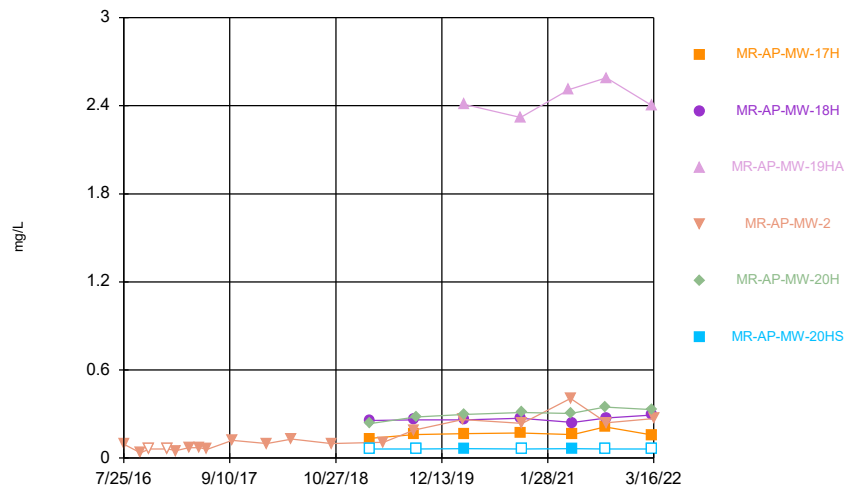
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### Time Series



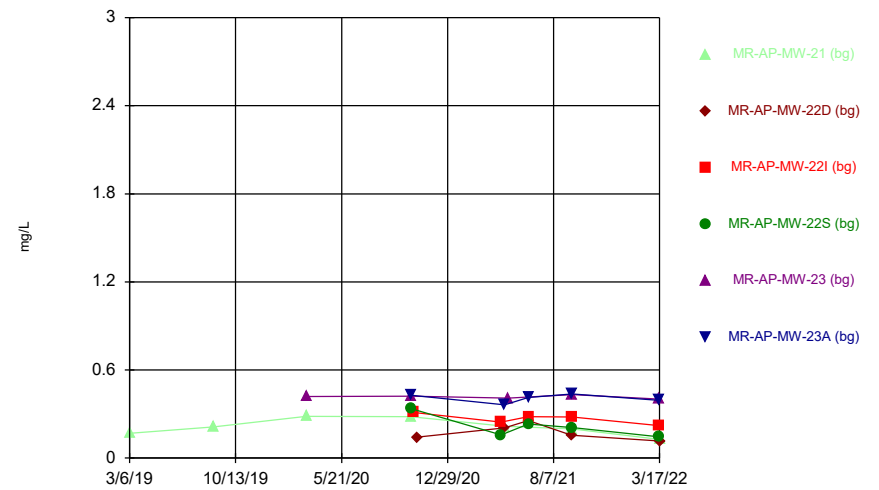
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### Time Series



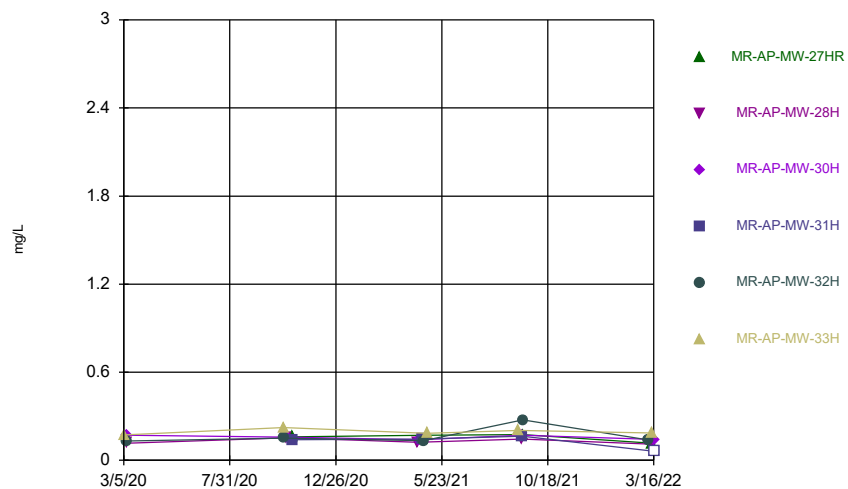
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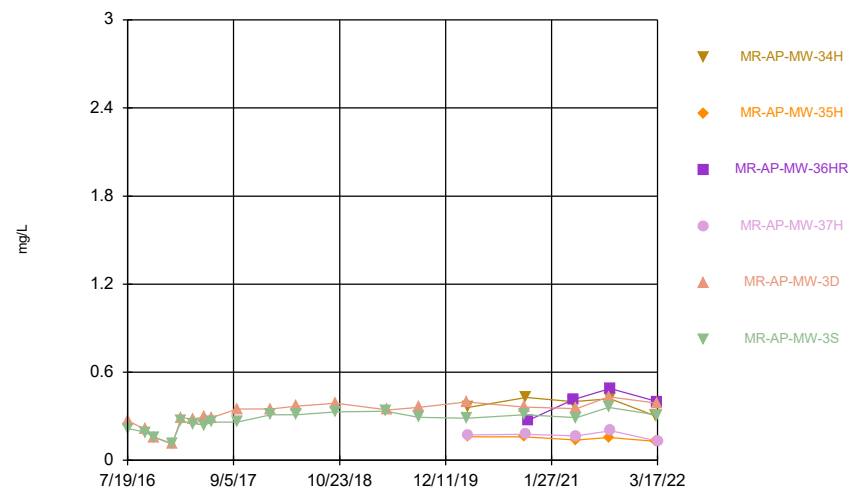
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### Time Series



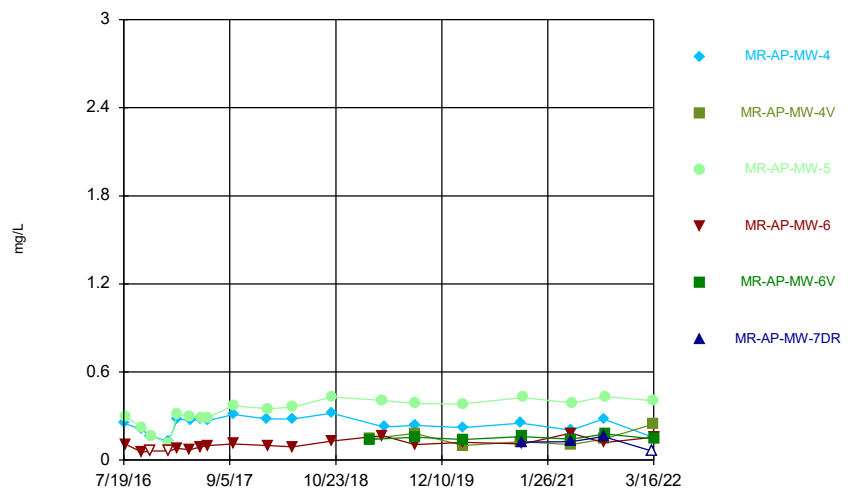
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### Time Series



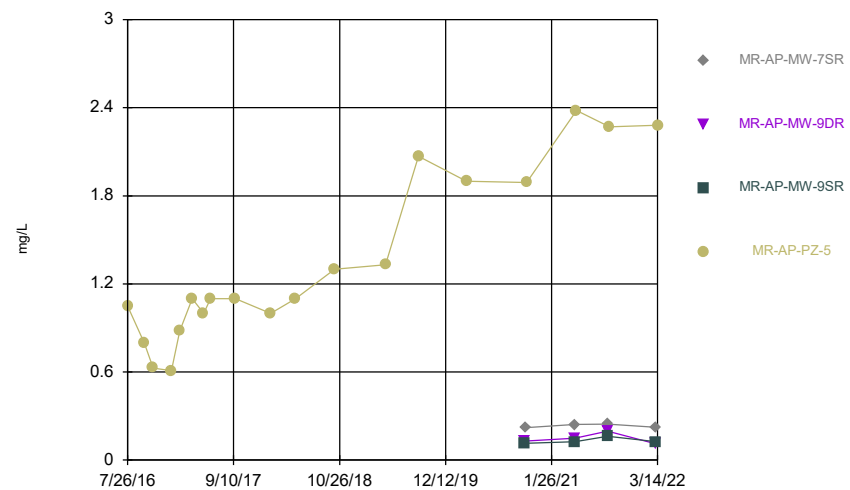
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### Time Series



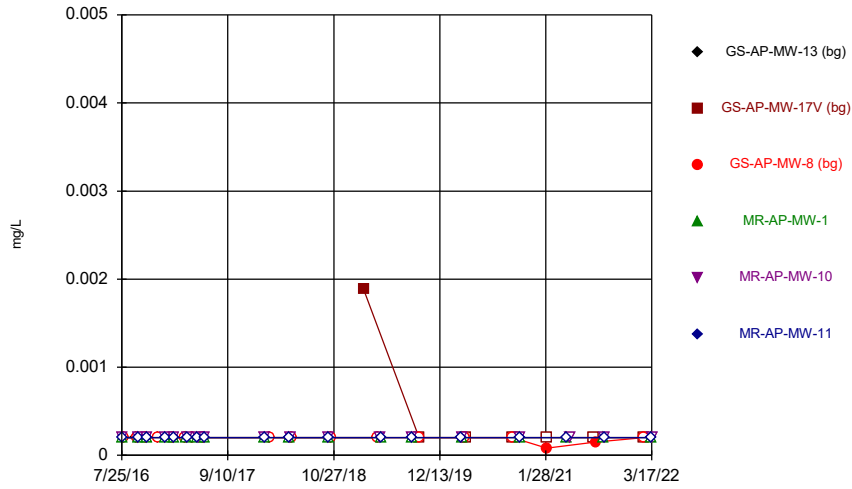
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### Time Series



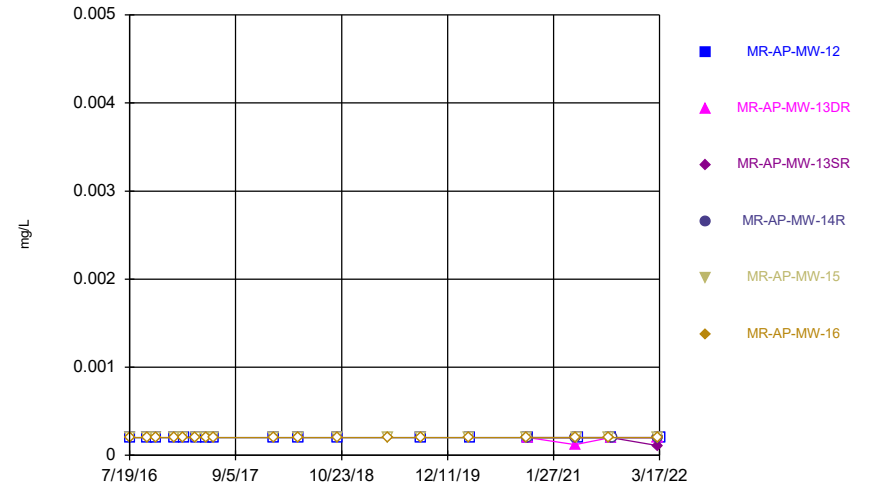
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Time Series



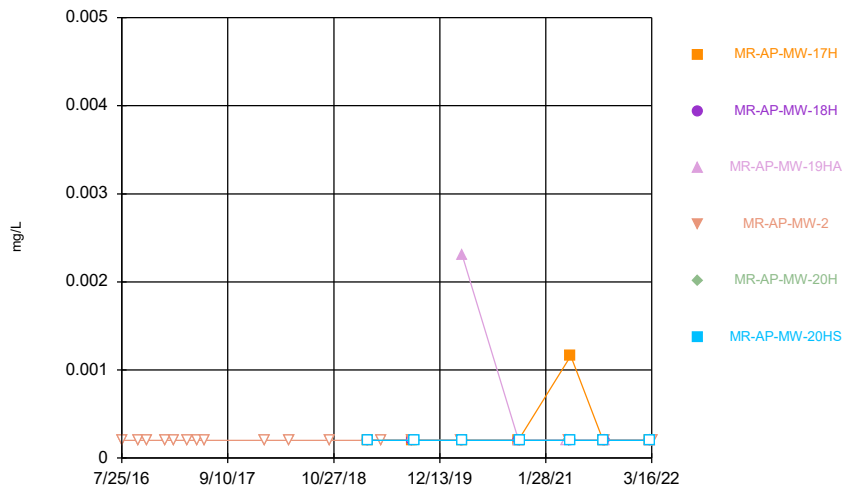
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Time Series



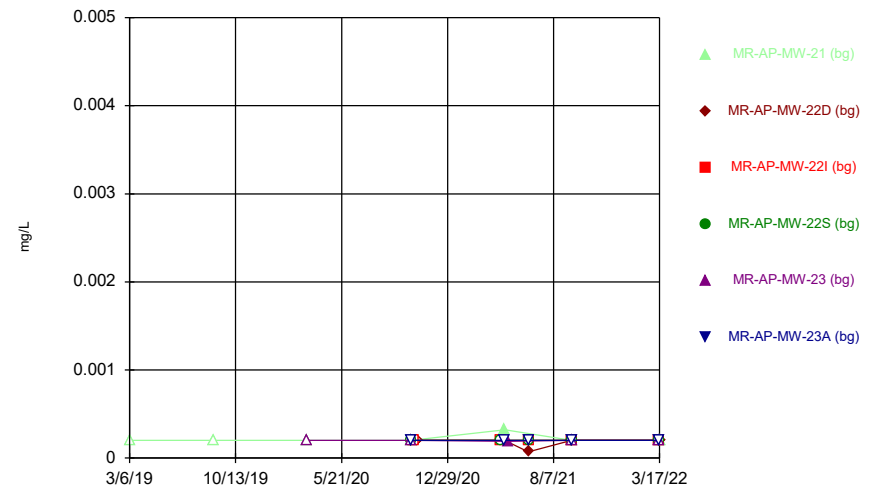
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Time Series



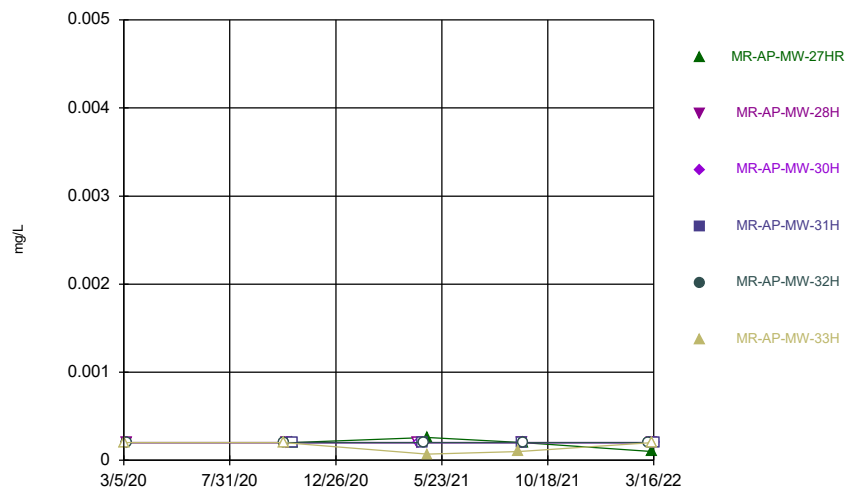
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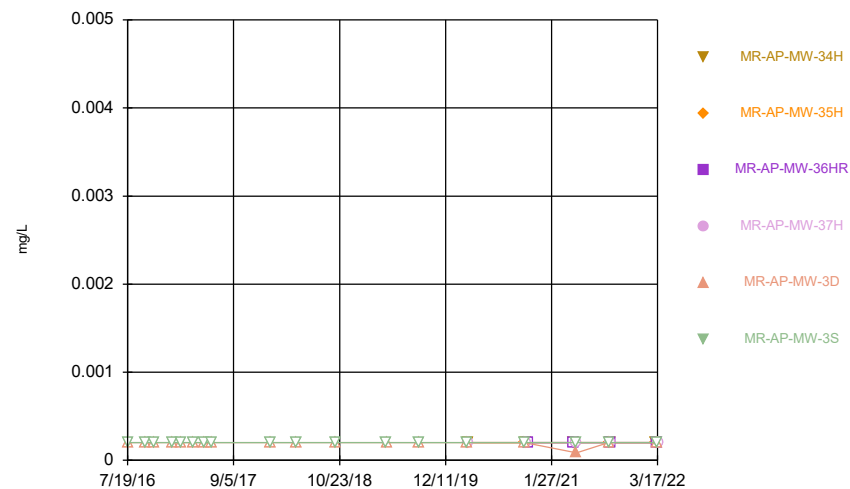
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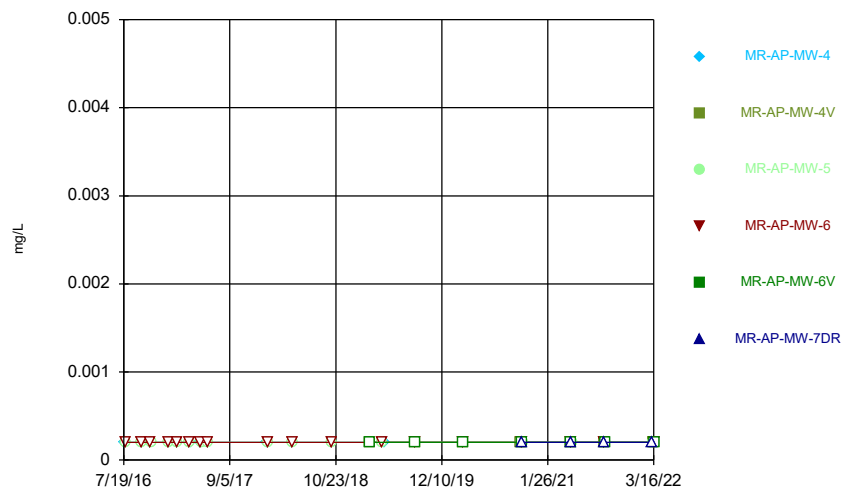
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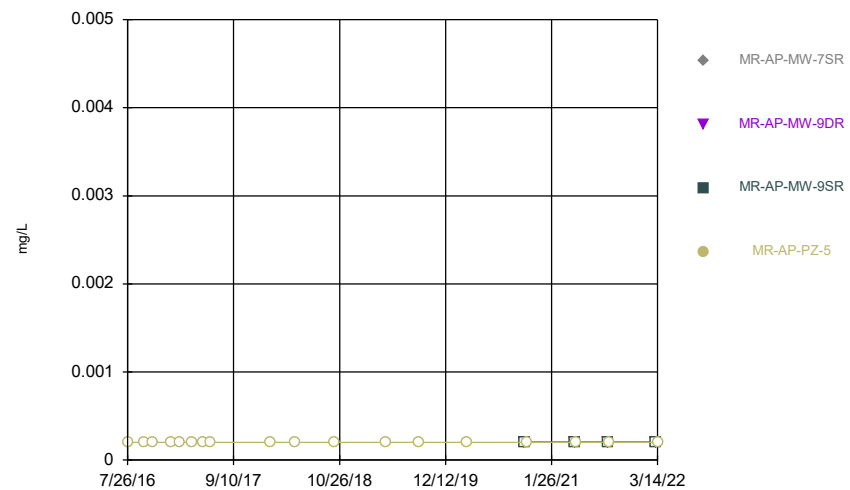
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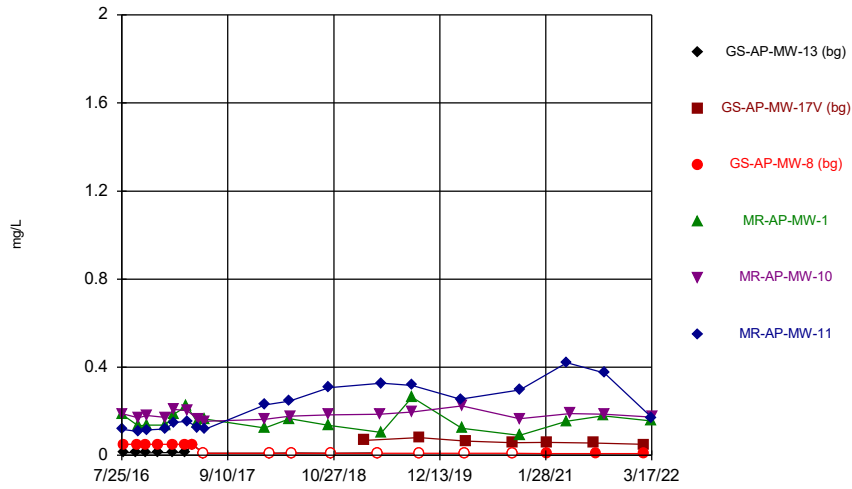
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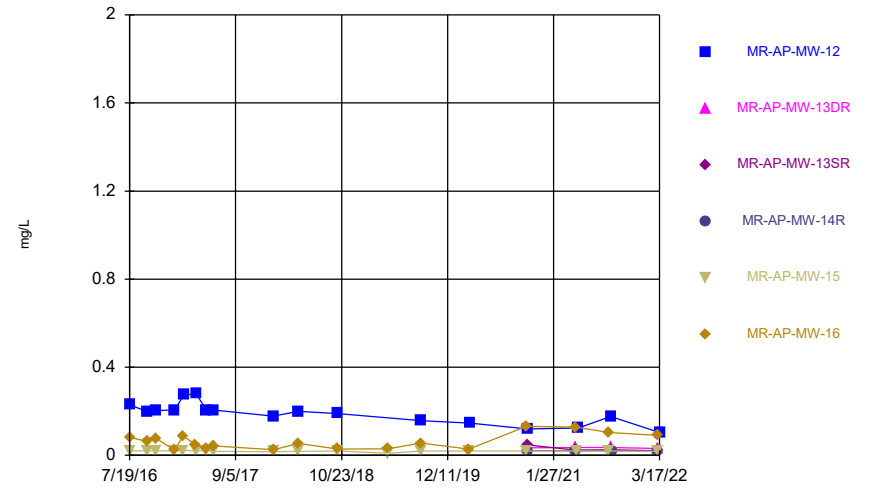
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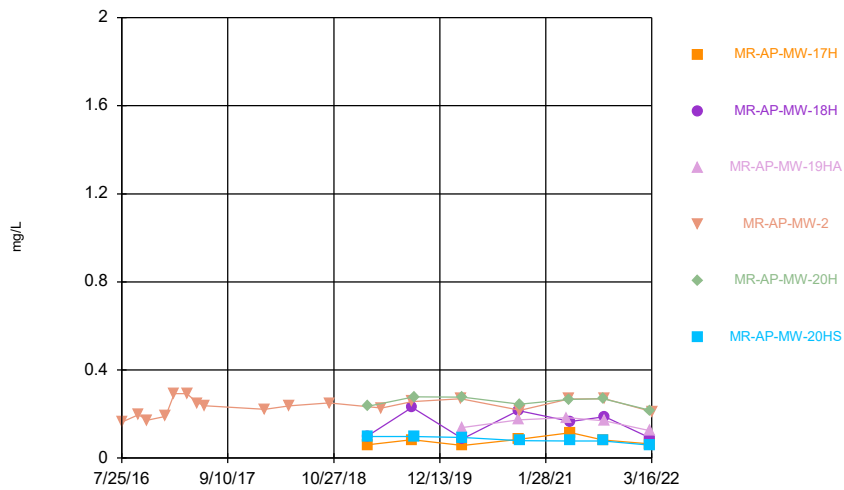
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### Time Series



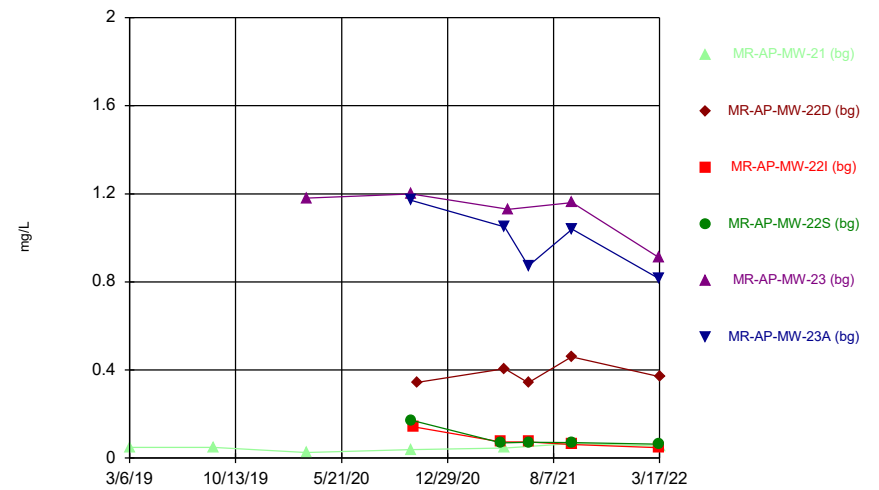
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### Time Series



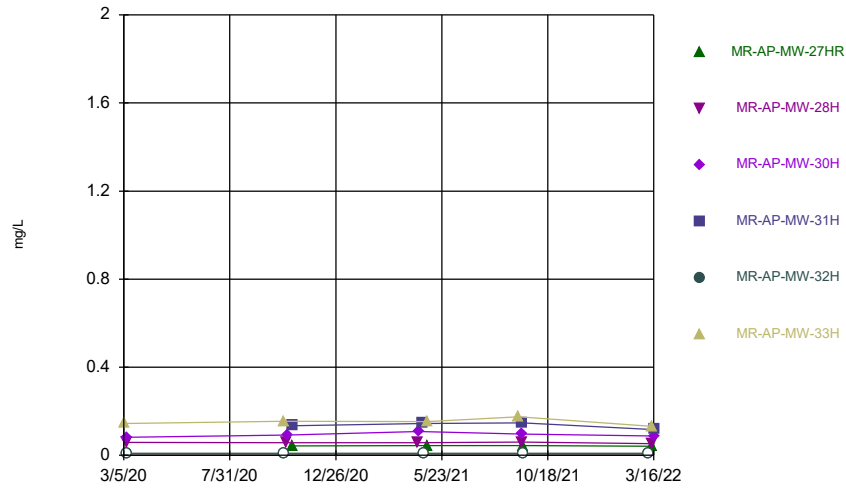
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### Time Series



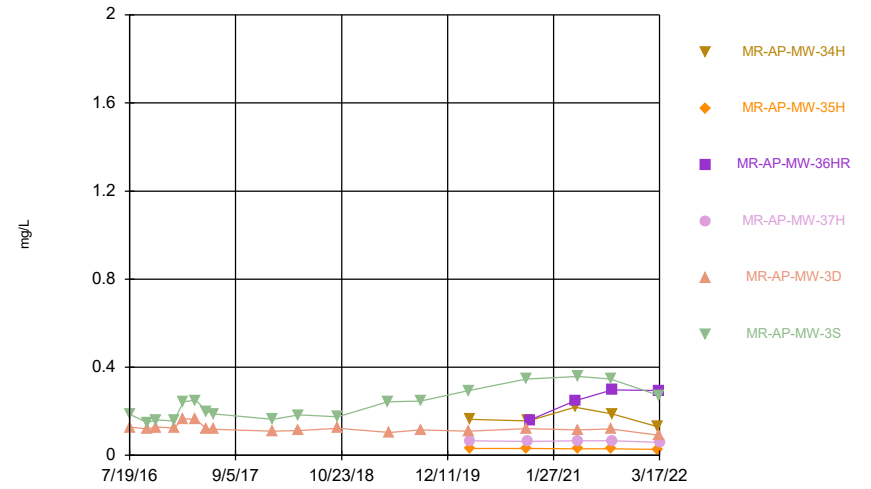
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### Time Series



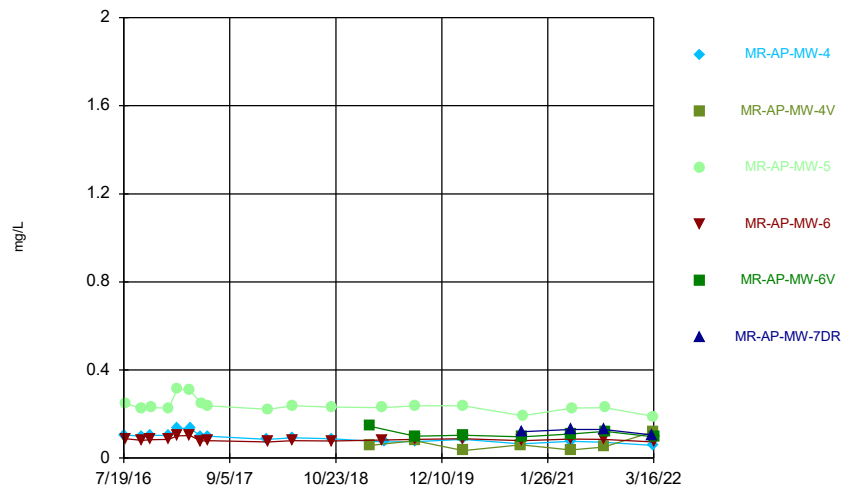
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### Time Series



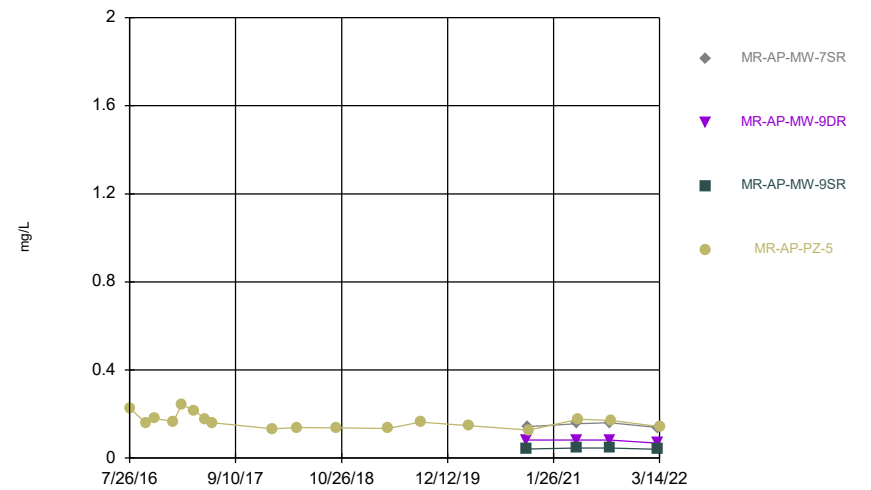
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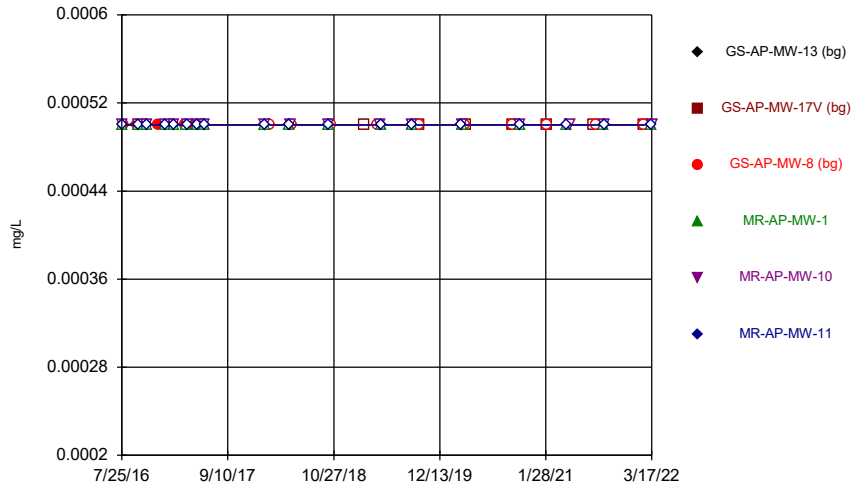
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### Time Series



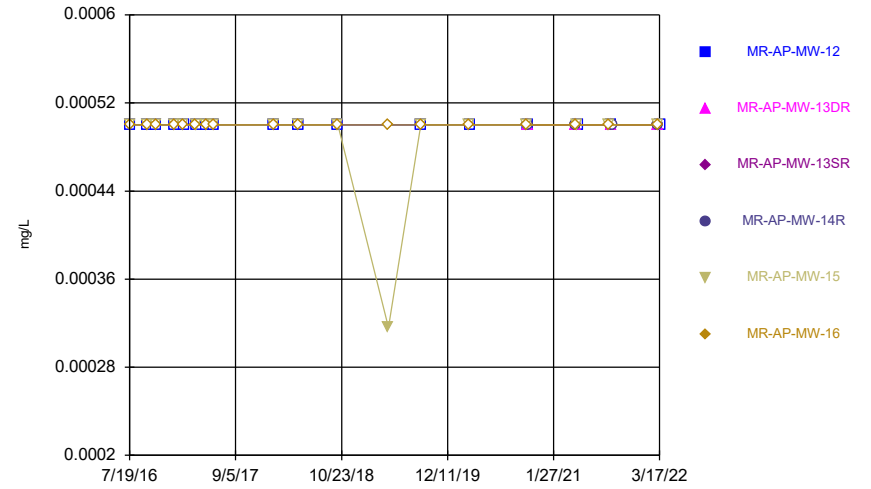
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### Time Series



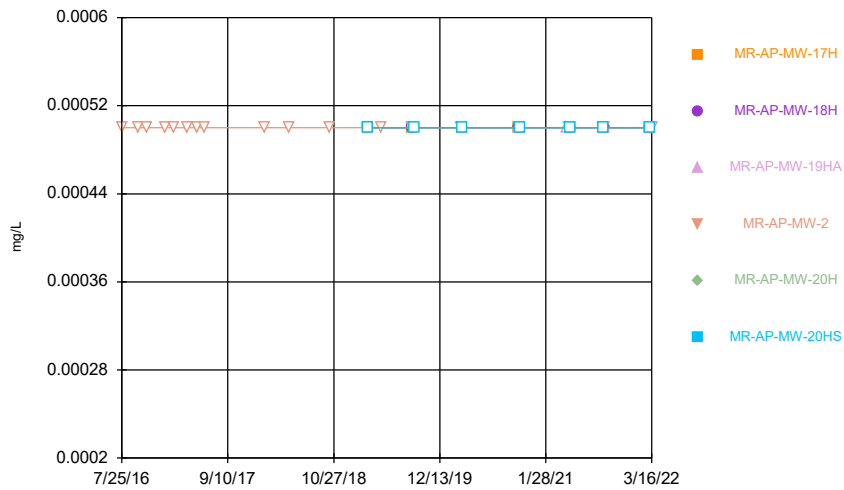
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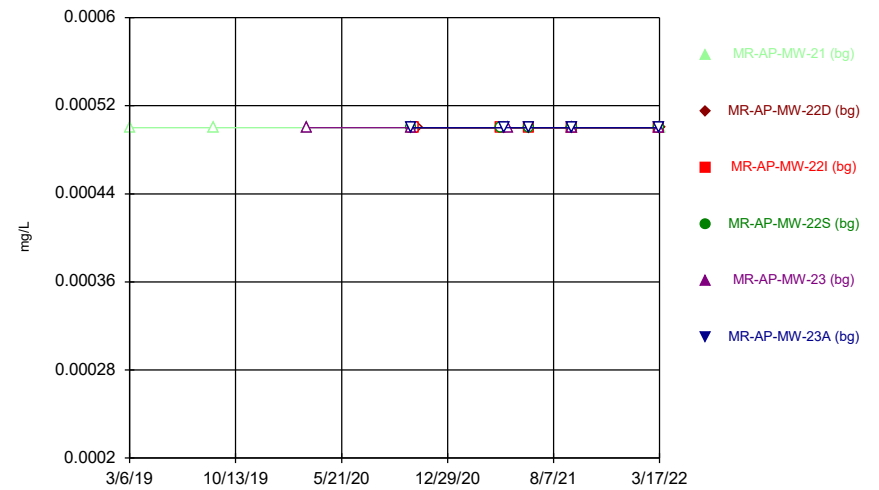
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### Time Series



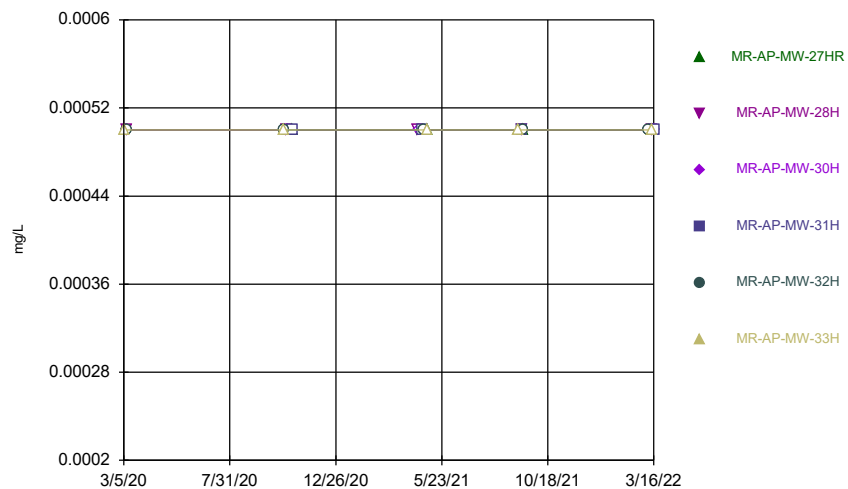
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Plant Miller Client: Southern Company Data: Miller Ash Pond

### Time Series



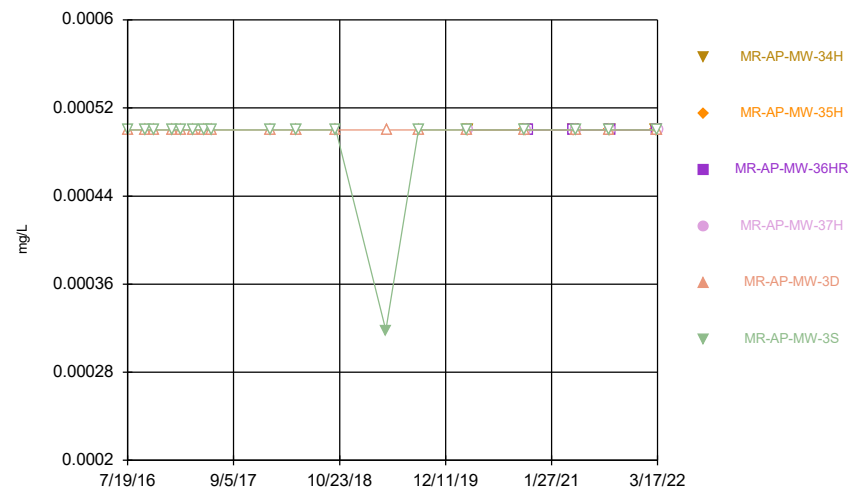
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Plant Miller Client: Southern Company Data: Miller Ash Pond

### Time Series



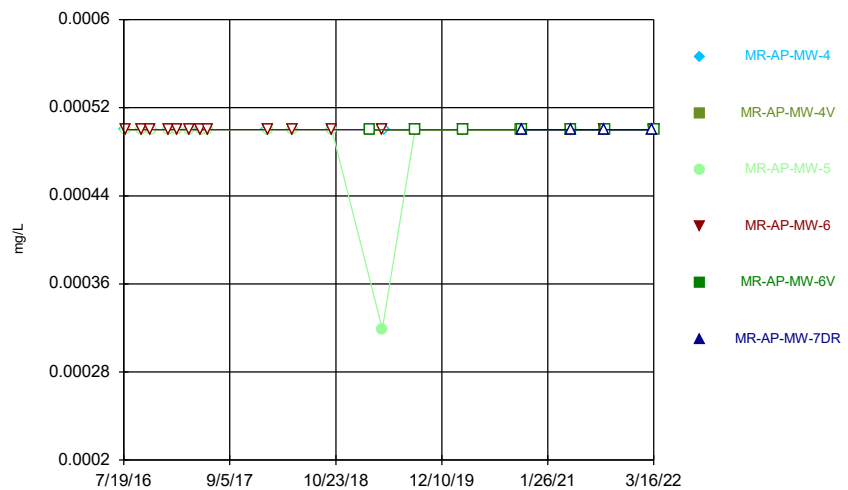
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Plant Miller Client: Southern Company Data: Miller Ash Pond

### Time Series



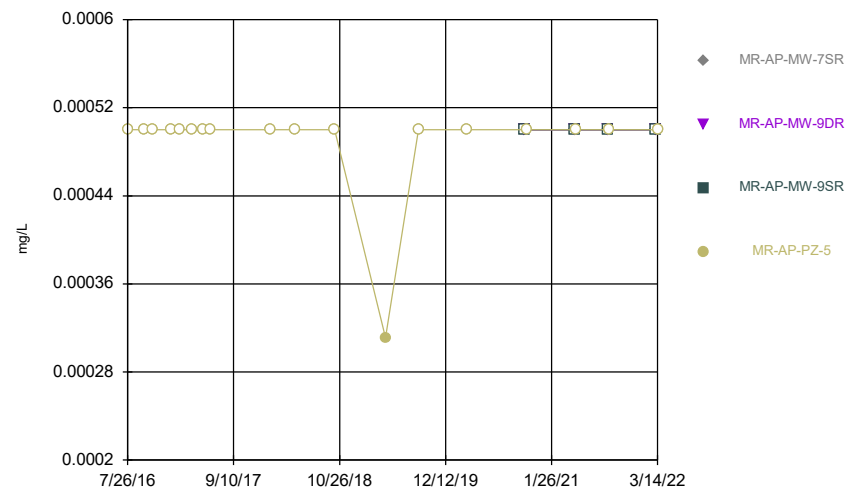
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### Time Series



Constituent: Mercury Analysis Run 5/17/2022 5:10 PM View: Time Series and Box Plots  
Plant Miller Client: Southern Company Data: Miller Ash Pond

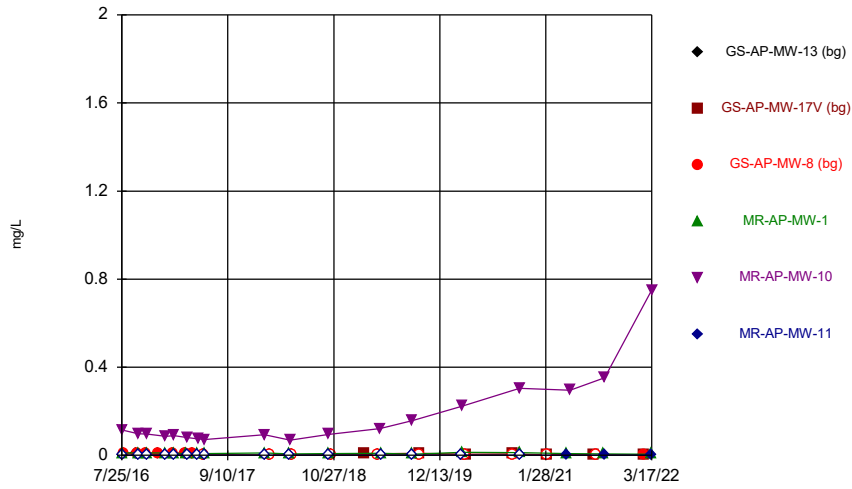
### Time Series



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Plant Miller Client: Southern Company Data: Miller Ash Pond

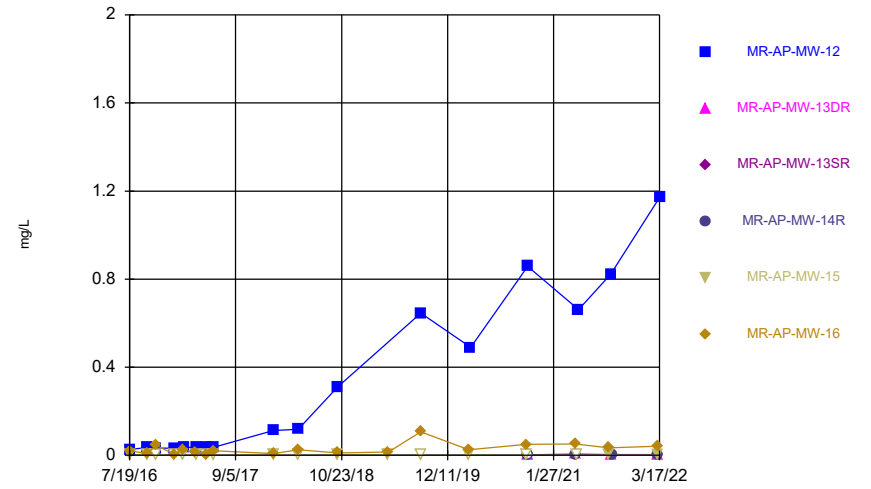


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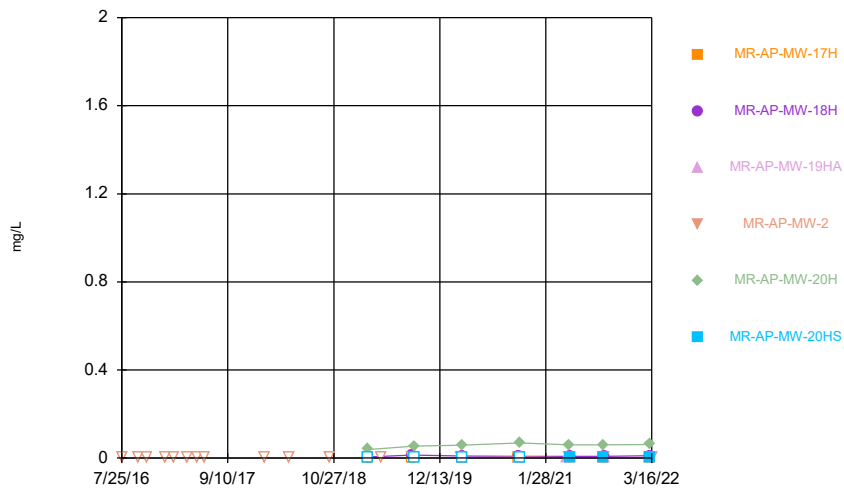
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### Time Series



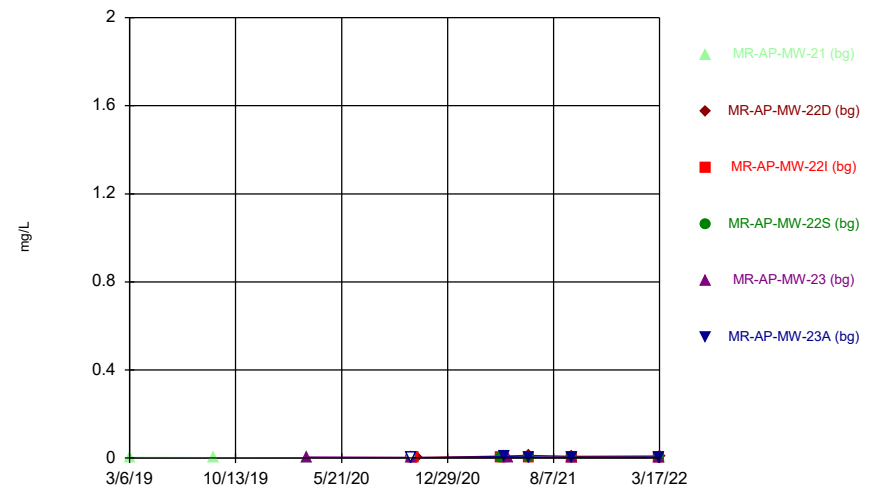
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### Time Series



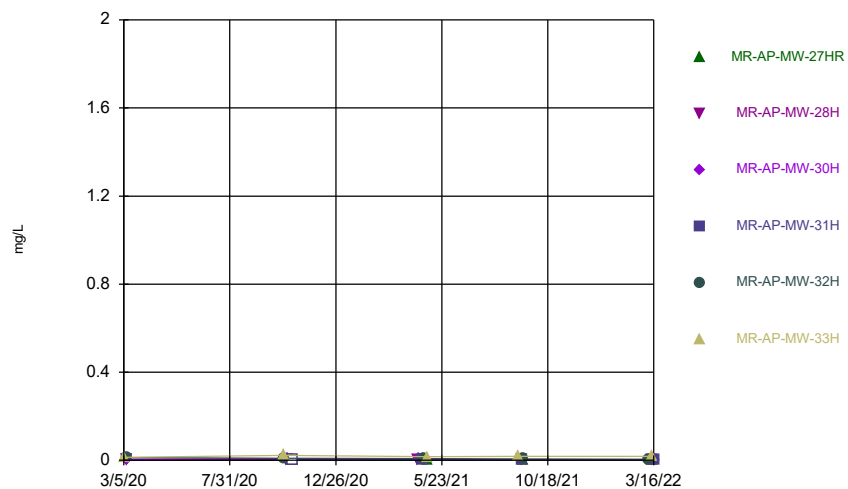
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Plant Miller Client: Southern Company Data: Miller Ash Pond

### Time Series



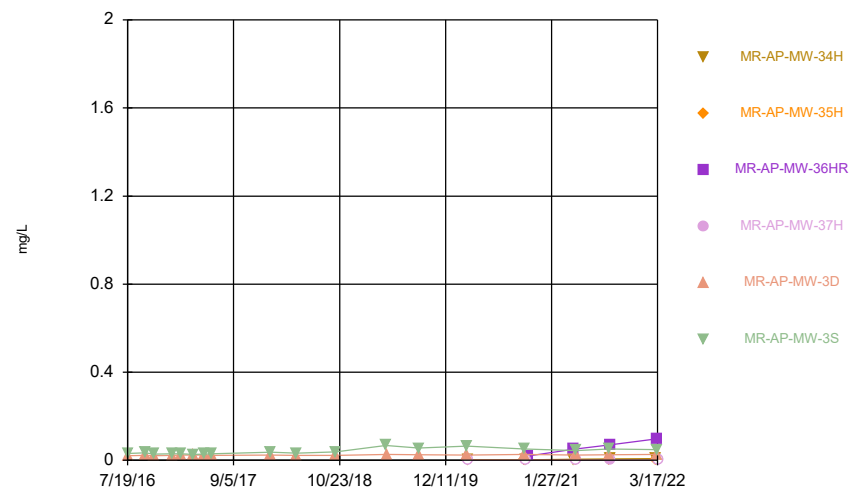
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Plant Miller Client: Southern Company Data: Miller Ash Pond

### Time Series



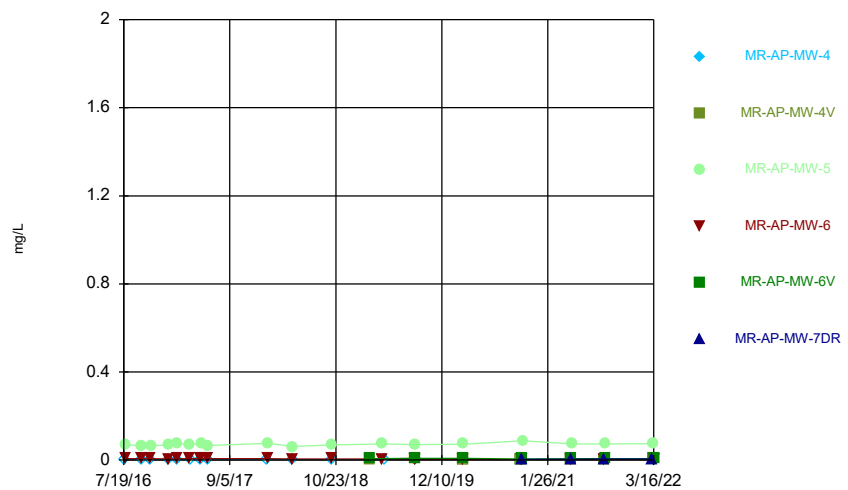
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Plant Miller Client: Southern Company Data: Miller Ash Pond

### Time Series



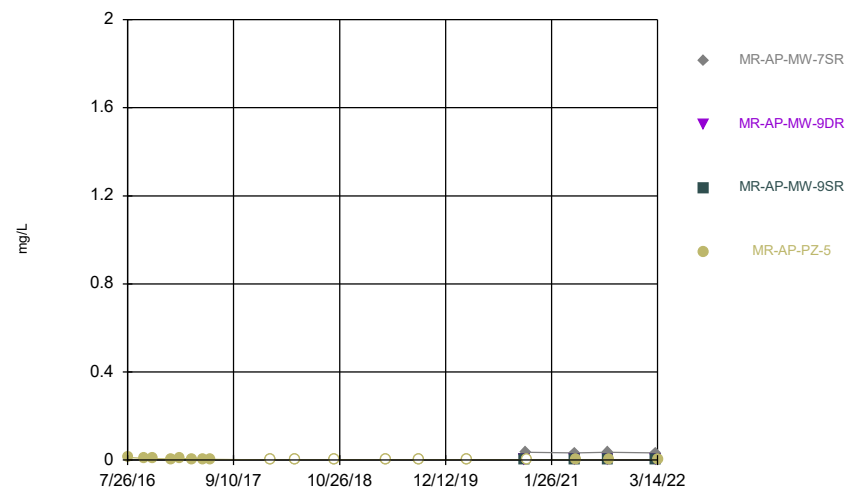
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### Time Series



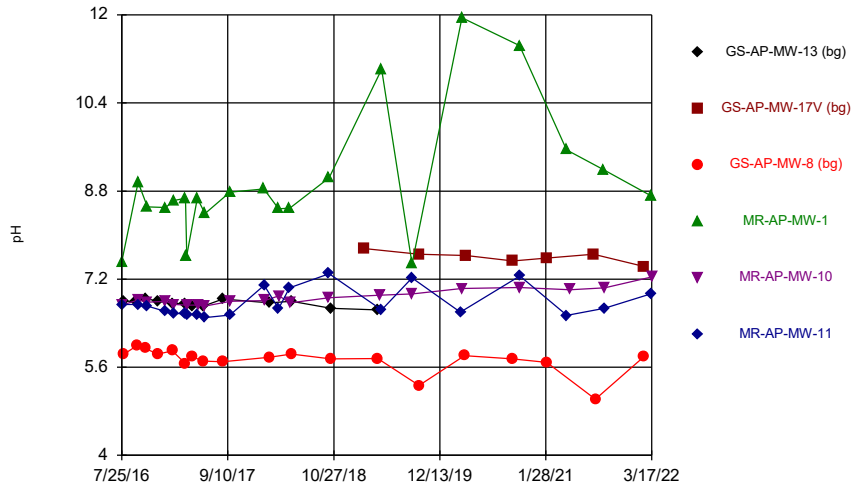
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Plant Miller Client: Southern Company Data: Miller Ash Pond

### Time Series



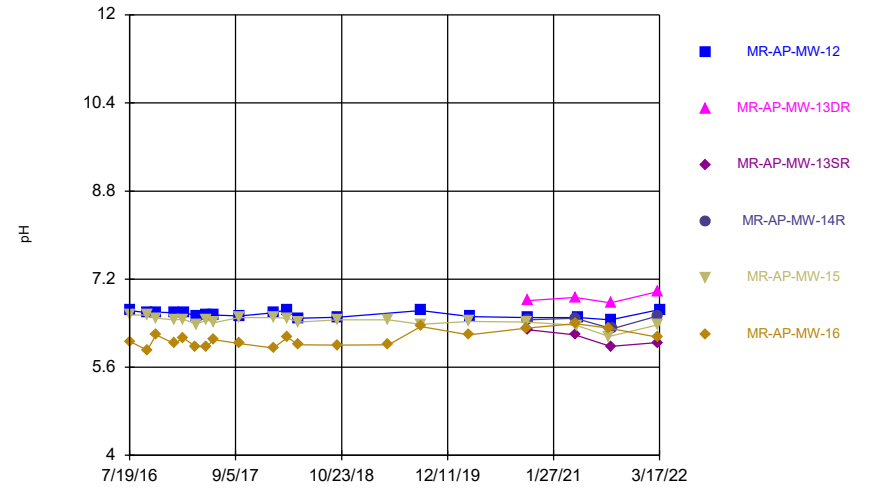
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Plant Miller Client: Southern Company Data: Miller Ash Pond

### Time Series



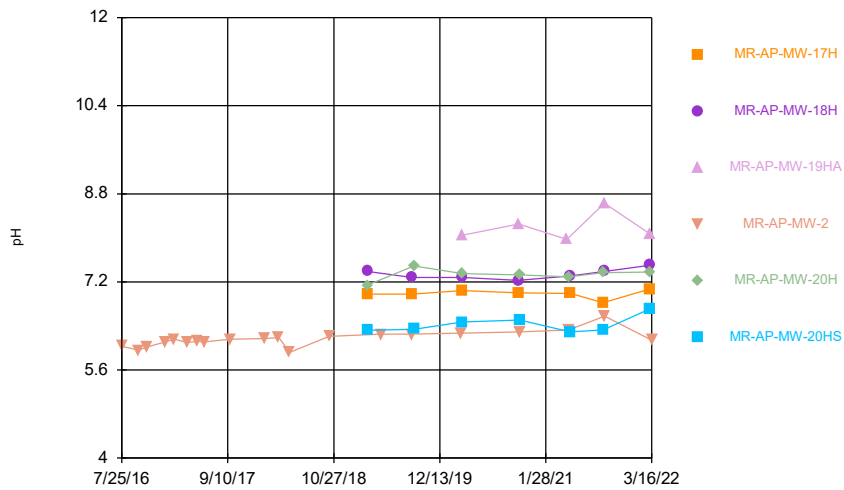
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Plant Miller Client: Southern Company Data: Miller Ash Pond

### Time Series



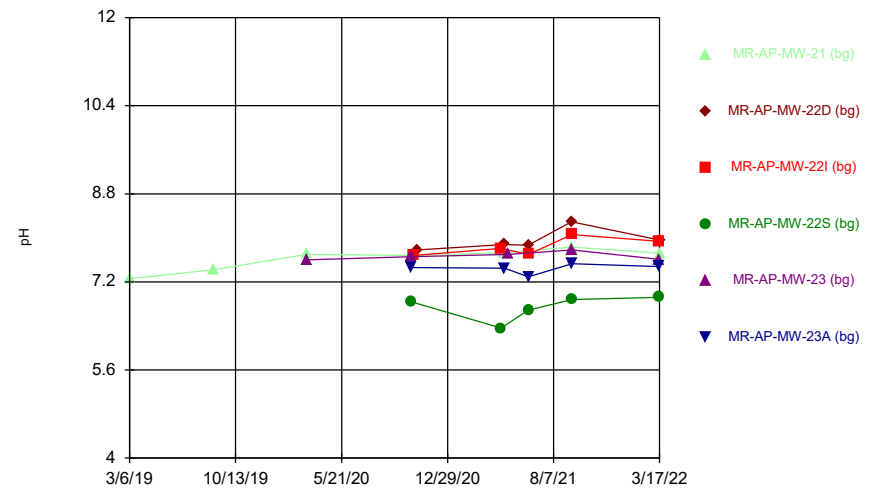
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Plant Miller Client: Southern Company Data: Miller Ash Pond

### Time Series



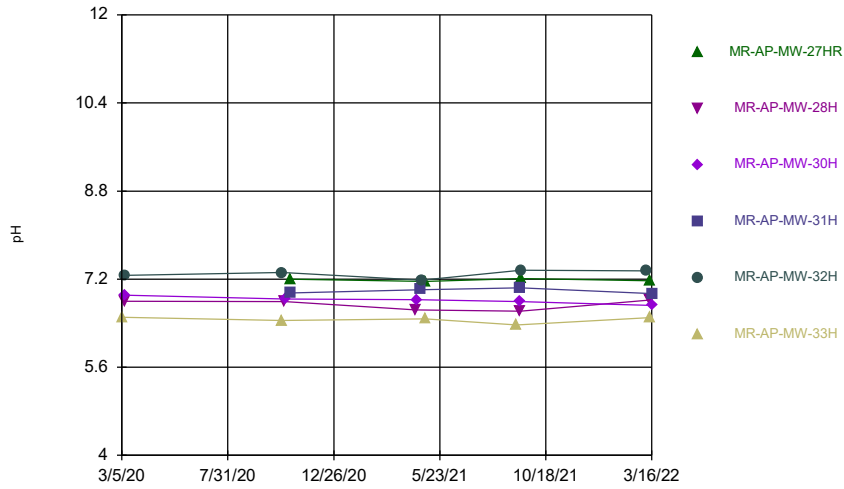
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Plant Miller Client: Southern Company Data: Miller Ash Pond

### Time Series



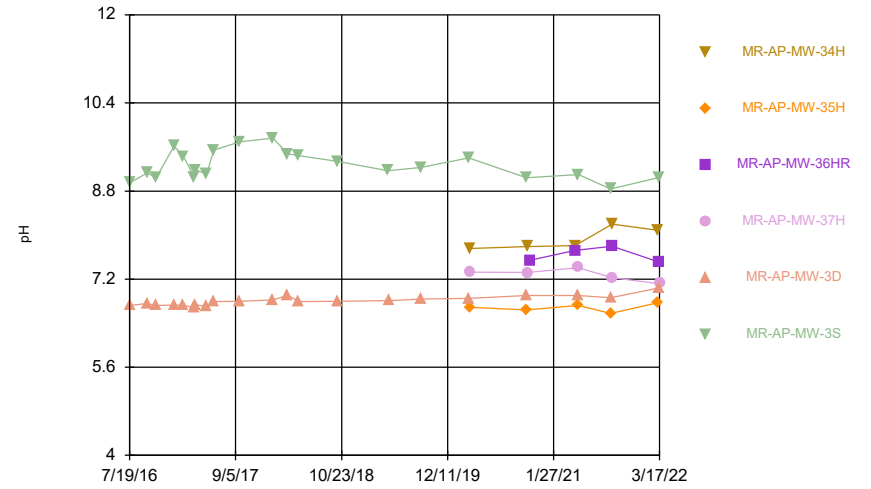
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



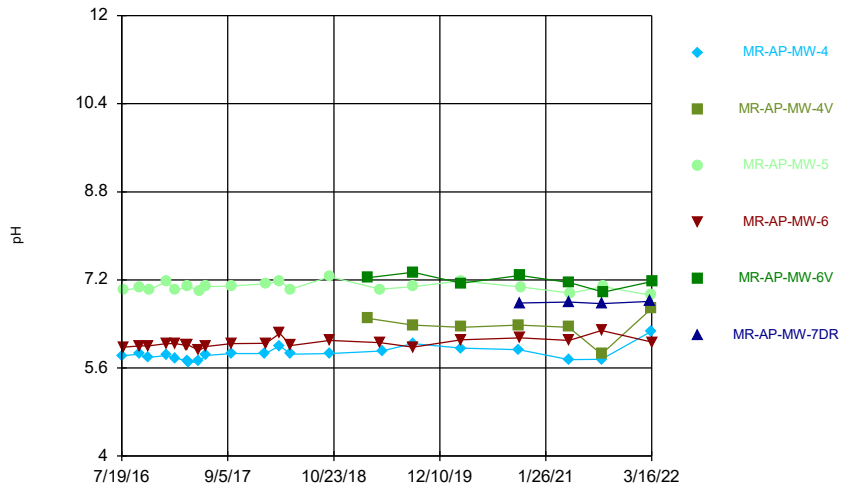
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



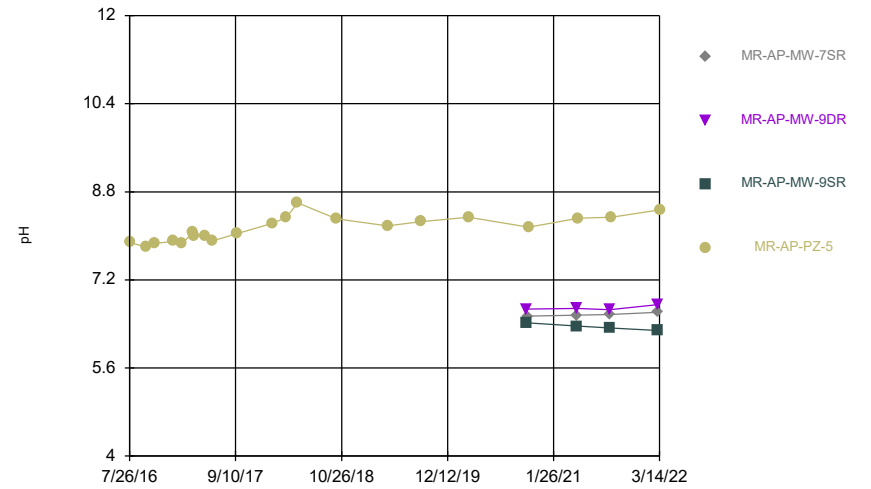
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



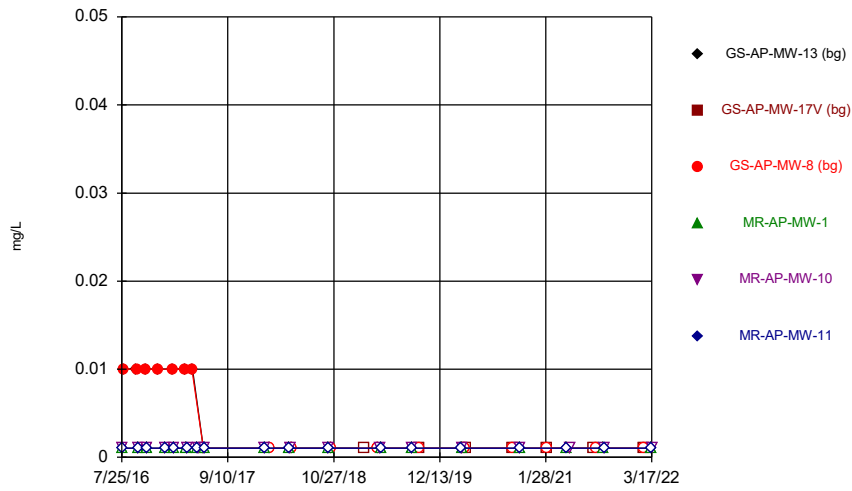
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



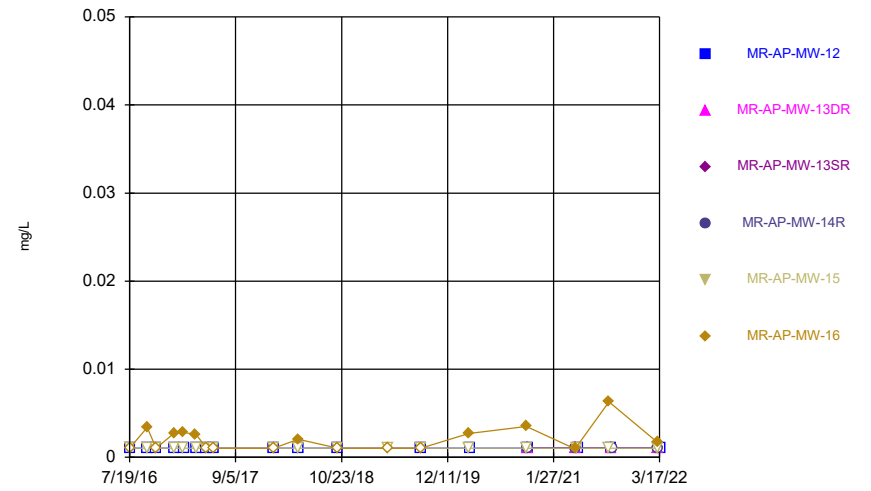
Constituent: pH, Field Analysis Run 5/17/2022 5:10 PM View: Time Series and Box Plots  
Plant Miller Client: Southern Company Data: Miller Ash Pond

### Time Series



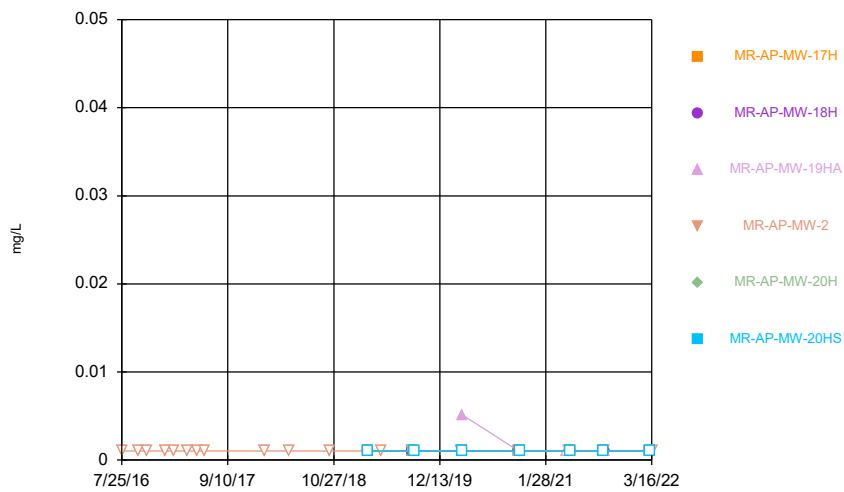
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Plant Miller Client: Southern Company Data: Miller Ash Pond

### Time Series



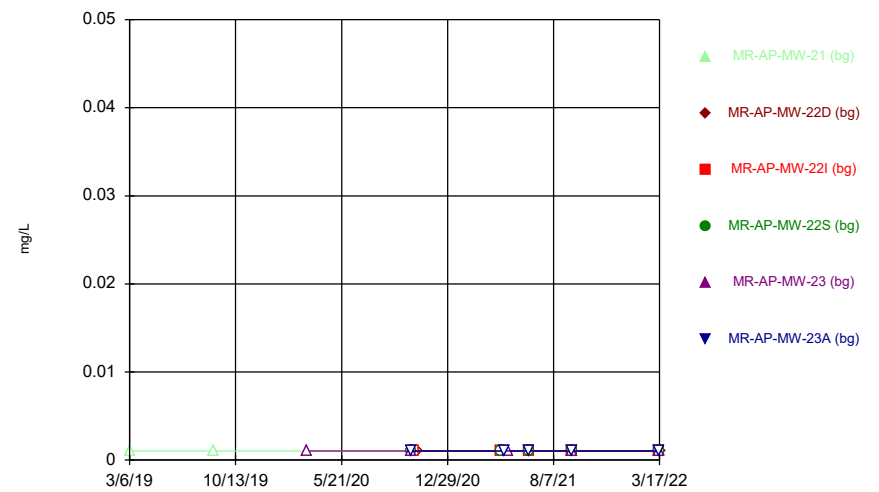
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Plant Miller Client: Southern Company Data: Miller Ash Pond

### Time Series



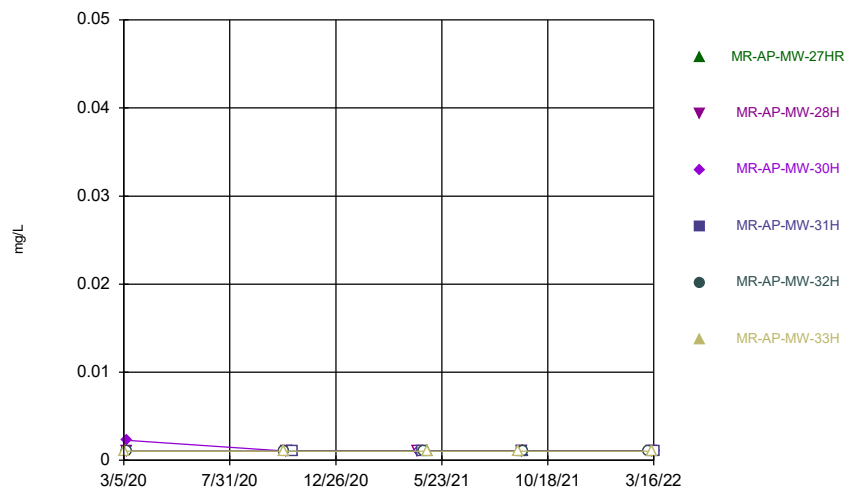
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Plant Miller Client: Southern Company Data: Miller Ash Pond

### Time Series



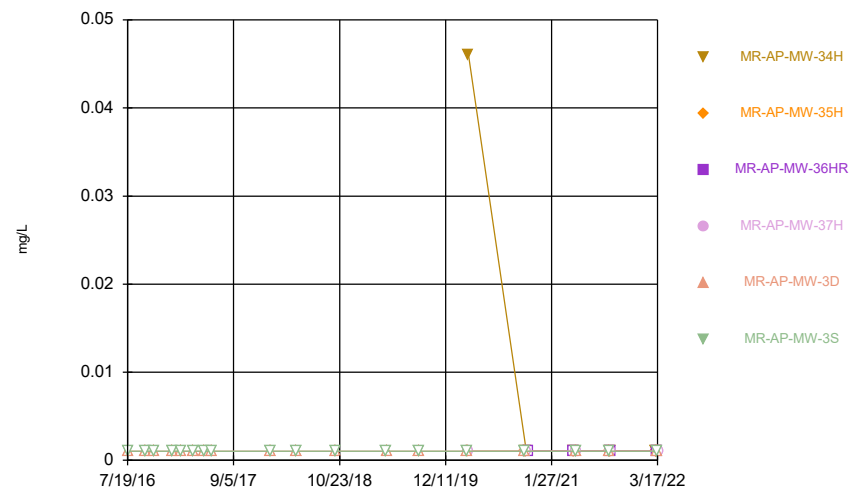
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Plant Miller Client: Southern Company Data: Miller Ash Pond

### Time Series



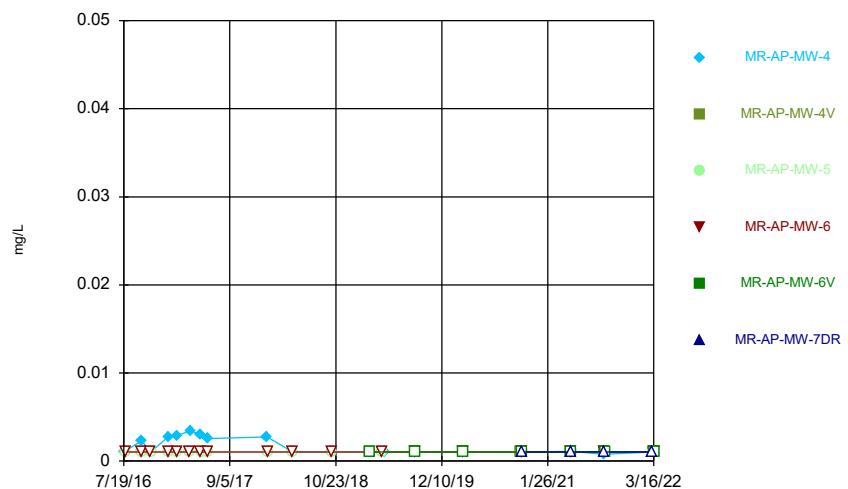
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Plant Miller Client: Southern Company Data: Miller Ash Pond

### Time Series



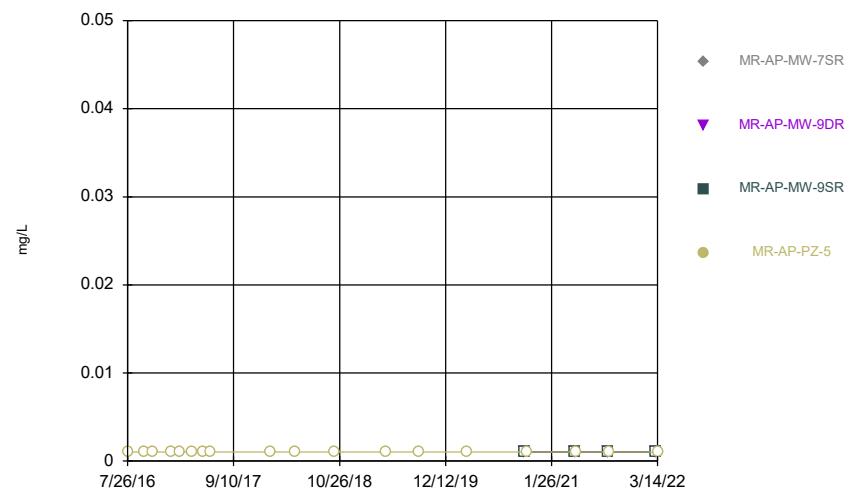
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Plant Miller Client: Southern Company Data: Miller Ash Pond

### Time Series



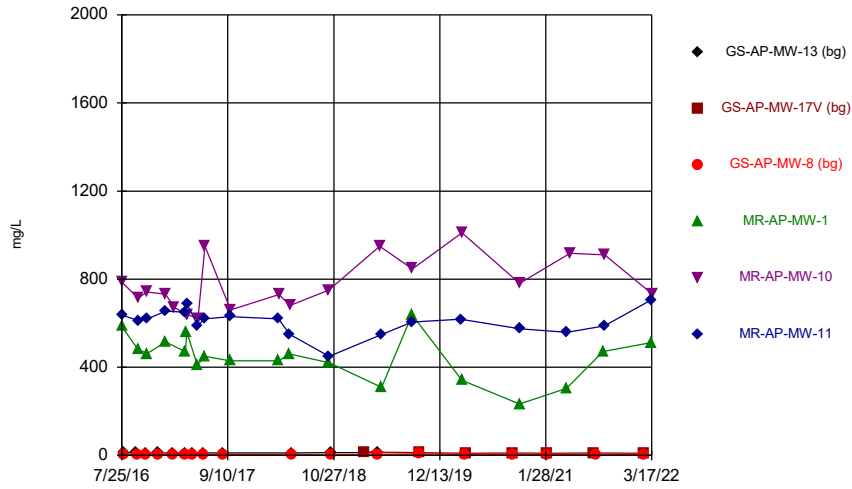
Constituent: Selenium Analysis Run 5/17/2022 5:10 PM View: Time Series and Box Plots  
Plant Miller Client: Southern Company Data: Miller Ash Pond

### Time Series



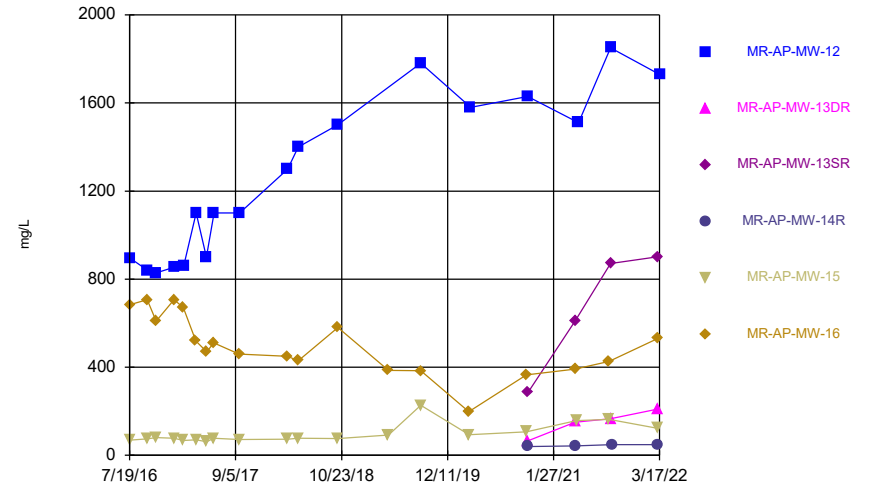
Constituent: Selenium Analysis Run 5/17/2022 5:10 PM View: Time Series and Box Plots  
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



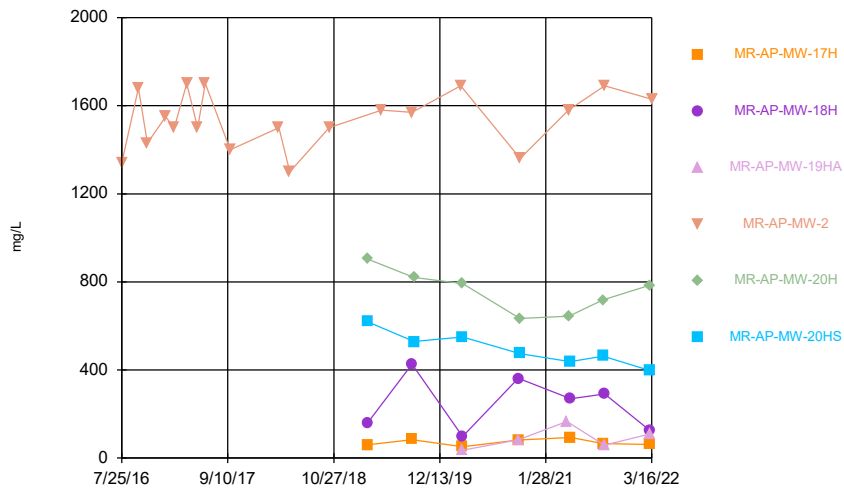
Constituent: Sulfate as SO4 Analysis Run 5/17/2022 5:10 PM View: Time Series and Box Plots  
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



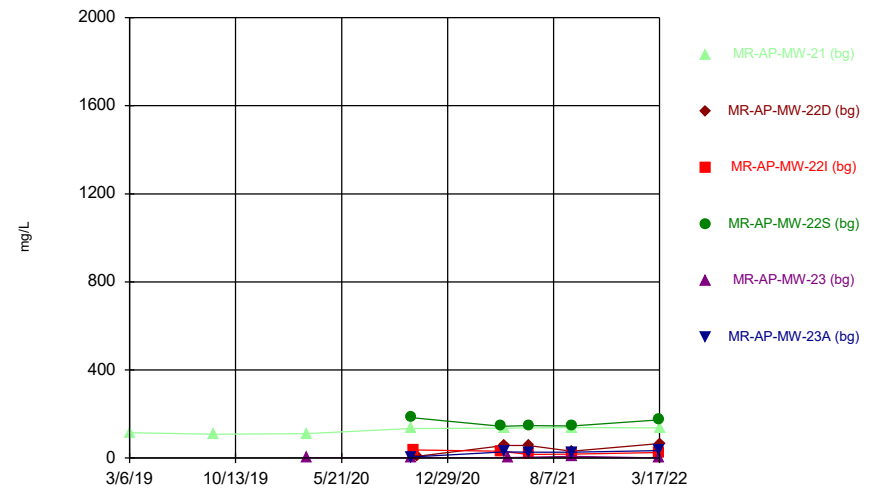
Constituent: Sulfate as SO4 Analysis Run 5/17/2022 5:11 PM View: Time Series and Box Plots  
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



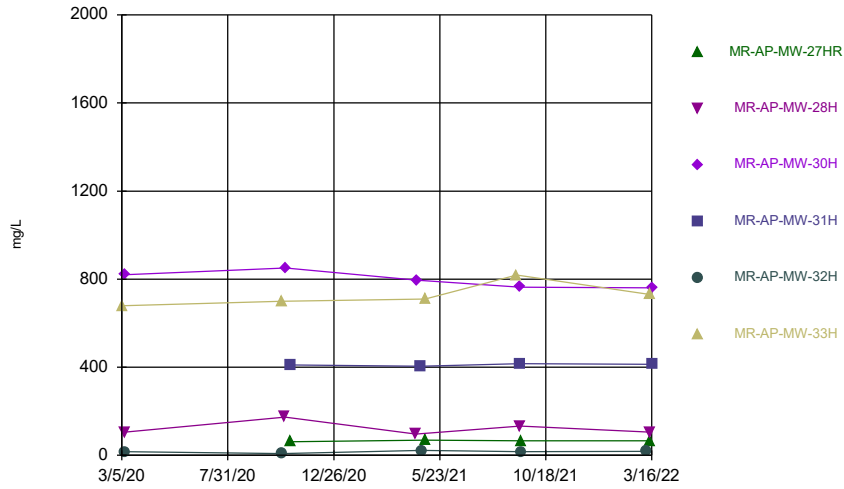
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



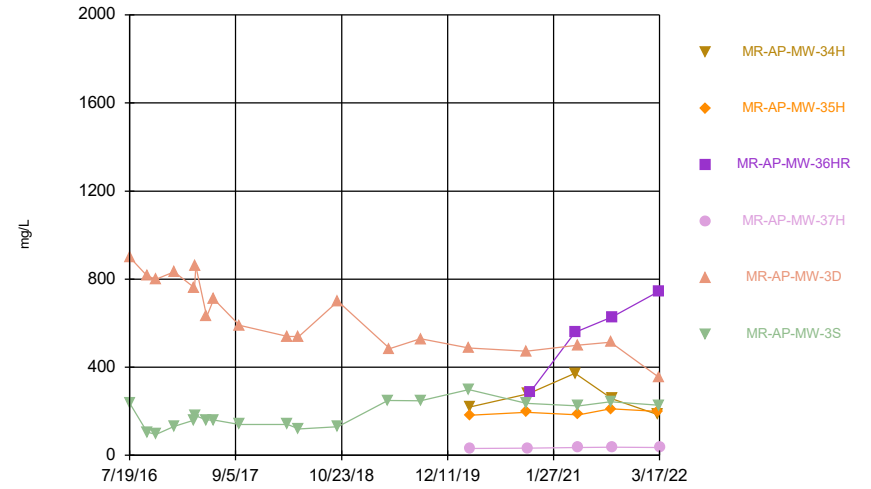
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



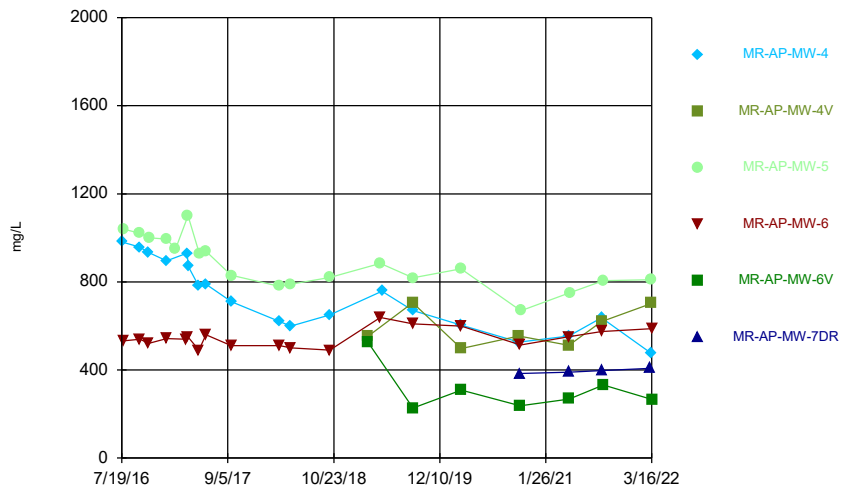
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



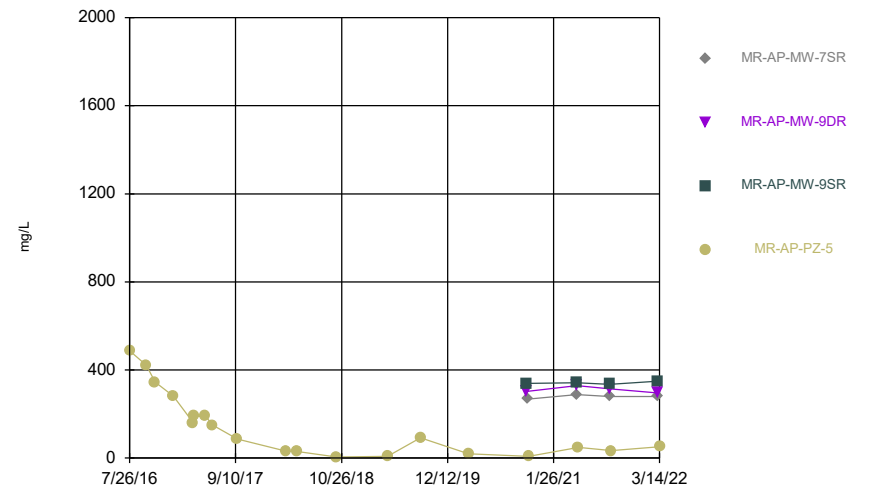
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



Constituent: Sulfate as SO4 Analysis Run 5/17/2022 5:11 PM View: Time Series and Box Plots  
Plant Miller Client: Southern Company Data: Miller Ash Pond

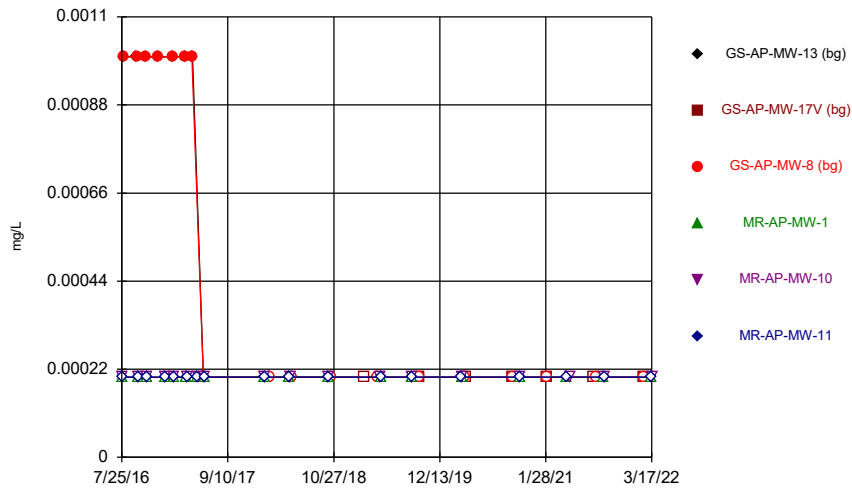
Time Series



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Plant Miller Client: Southern Company Data: Miller Ash Pond

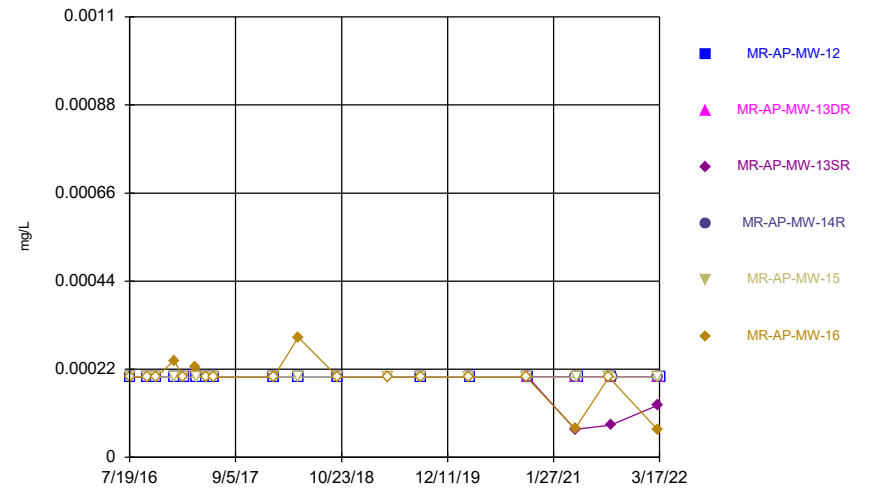


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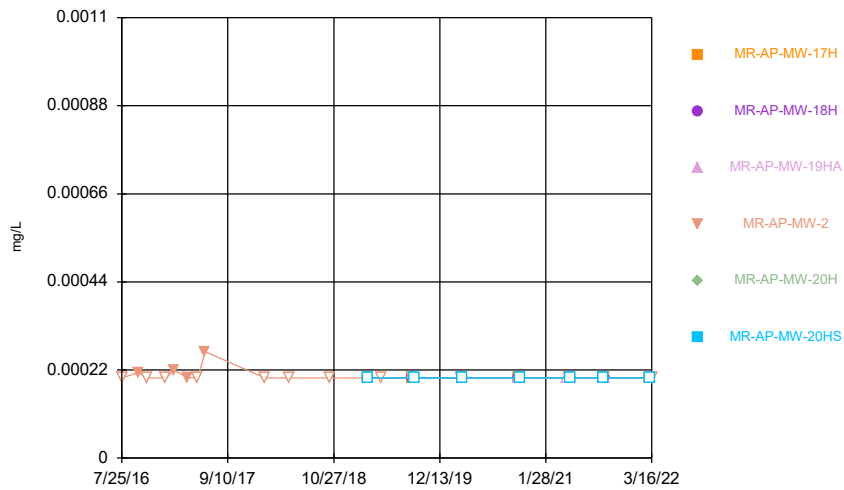
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Plant Miller Client: Southern Company Data: Miller Ash Pond

### Time Series



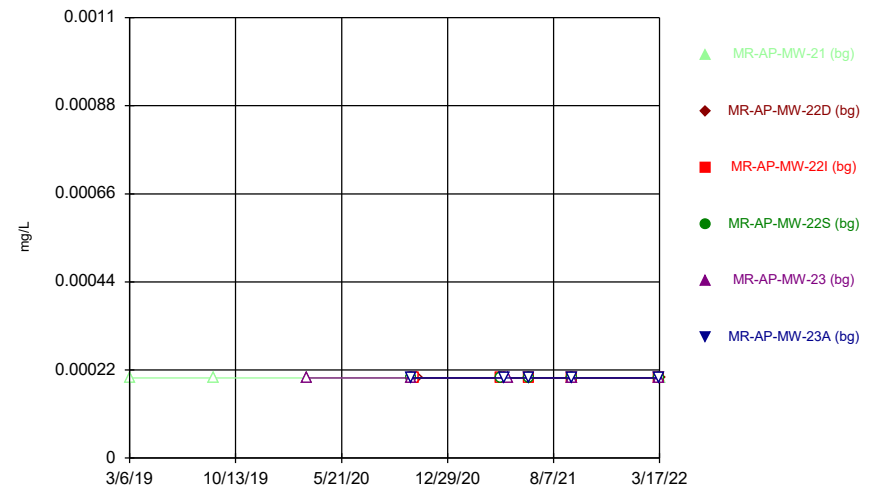
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Plant Miller Client: Southern Company Data: Miller Ash Pond

### Time Series



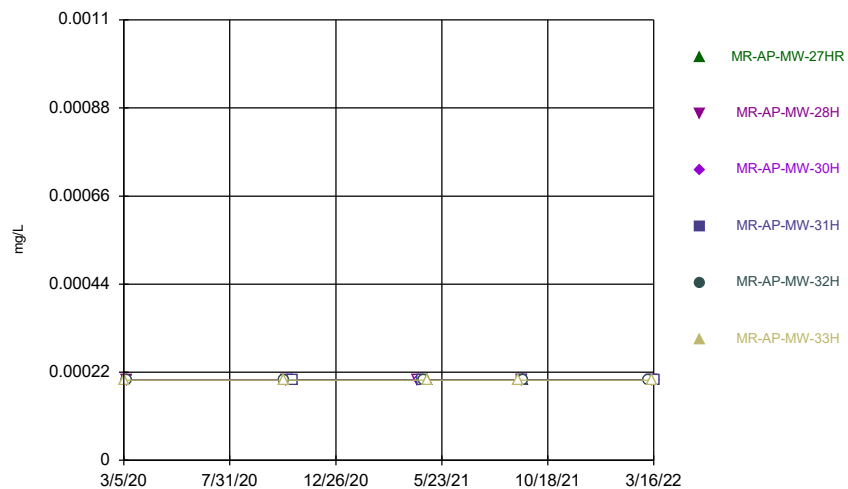
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### Time Series



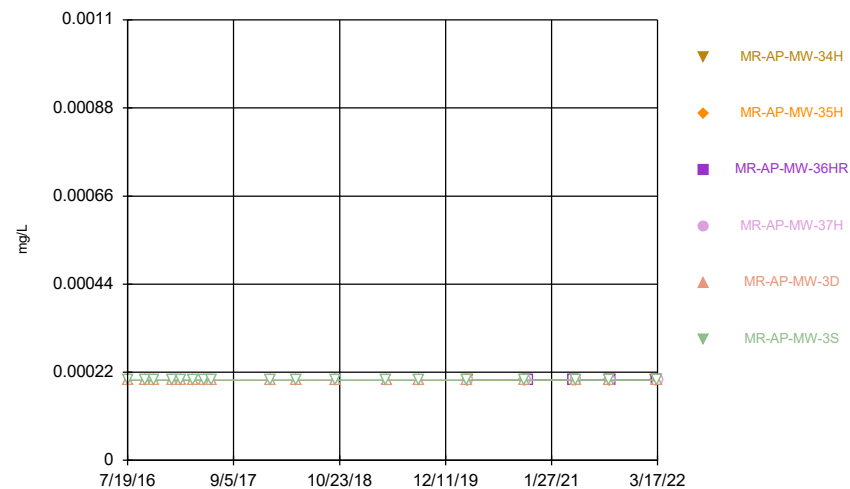
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Plant Miller Client: Southern Company Data: Miller Ash Pond

### Time Series



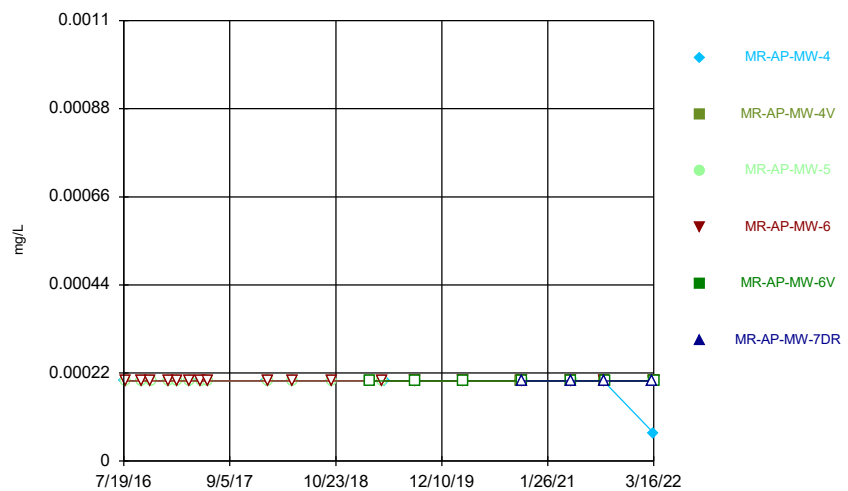
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Plant Miller Client: Southern Company Data: Miller Ash Pond

### Time Series



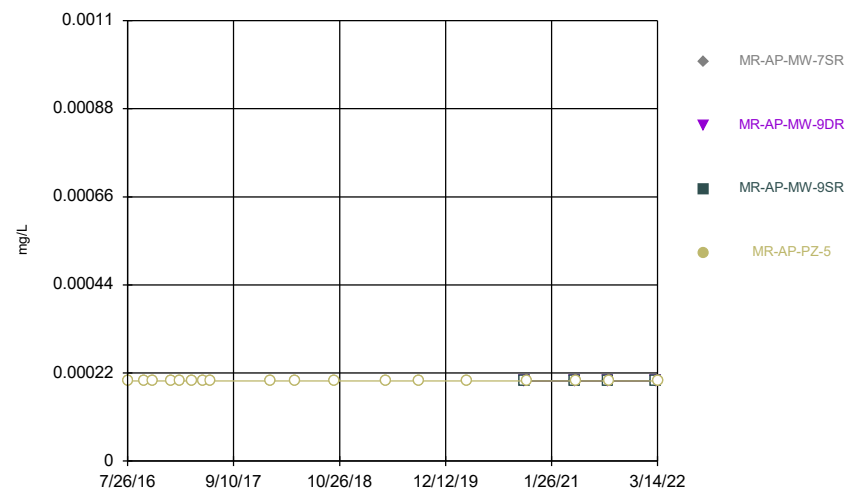
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Plant Miller Client: Southern Company Data: Miller Ash Pond

### Time Series



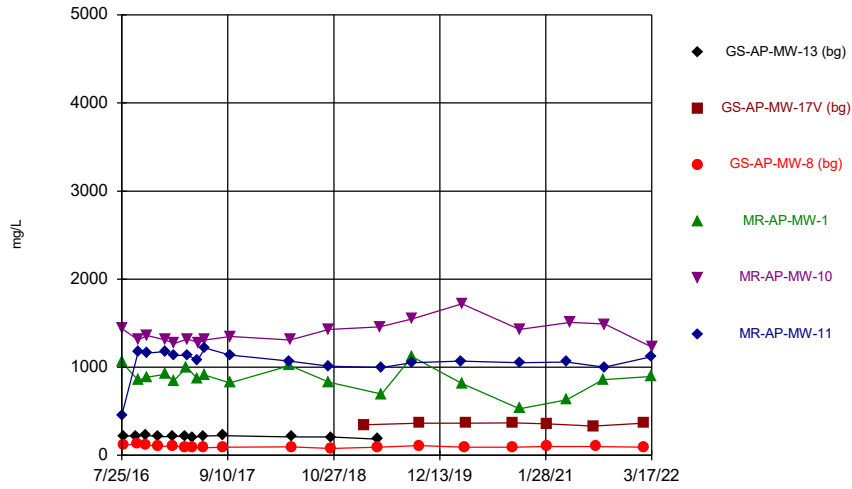
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Plant Miller Client: Southern Company Data: Miller Ash Pond

### Time Series



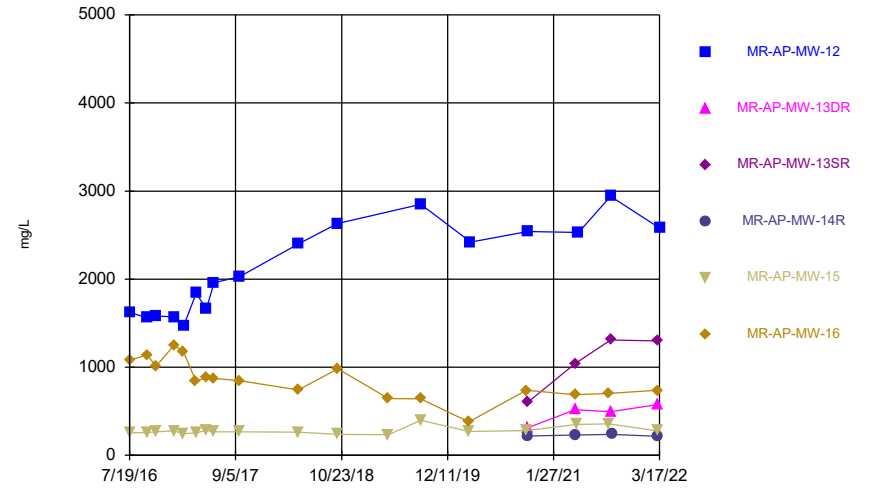
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



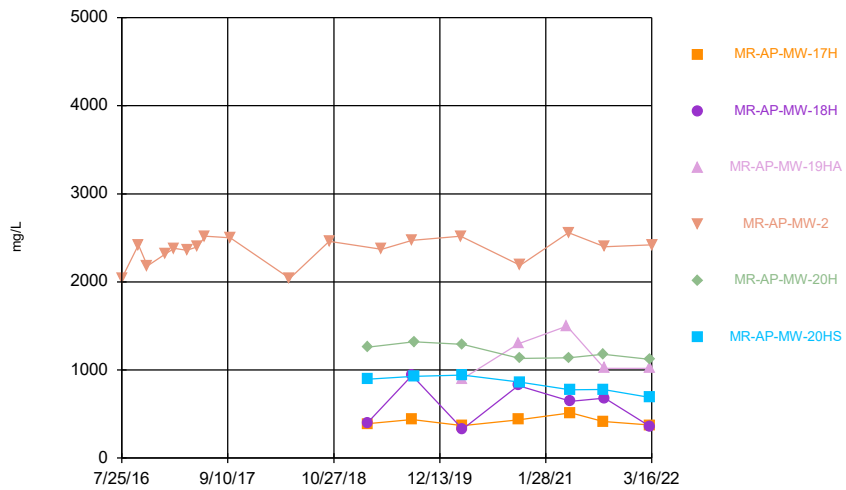
Constituent: Total Dissolved Solids [TDS] Analysis Run 5/17/2022 5:11 PM View: Time Series and Box PI Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



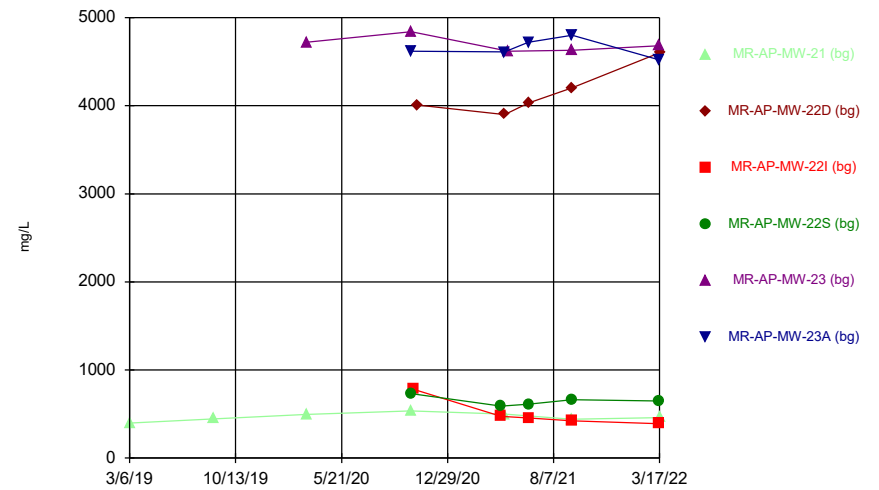
Constituent: Total Dissolved Solids [TDS] Analysis Run 5/17/2022 5:11 PM View: Time Series and Box PI Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



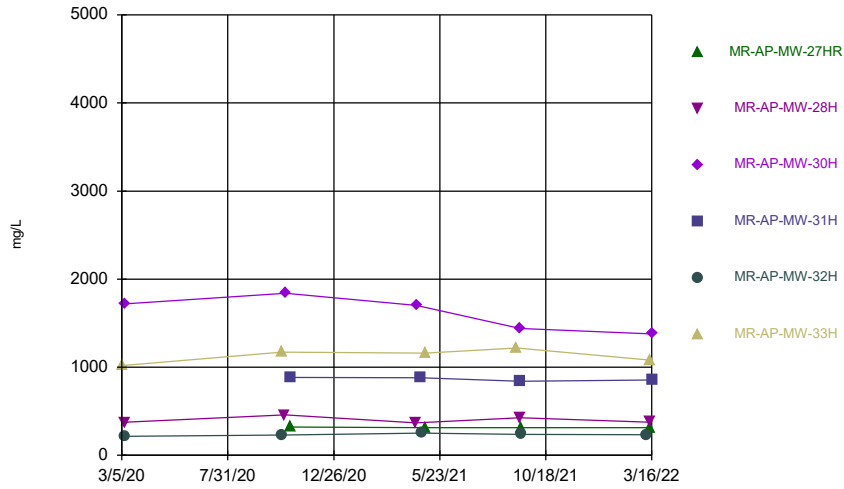
Constituent: Total Dissolved Solids [TDS] Analysis Run 5/17/2022 5:11 PM View: Time Series and Box PI Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



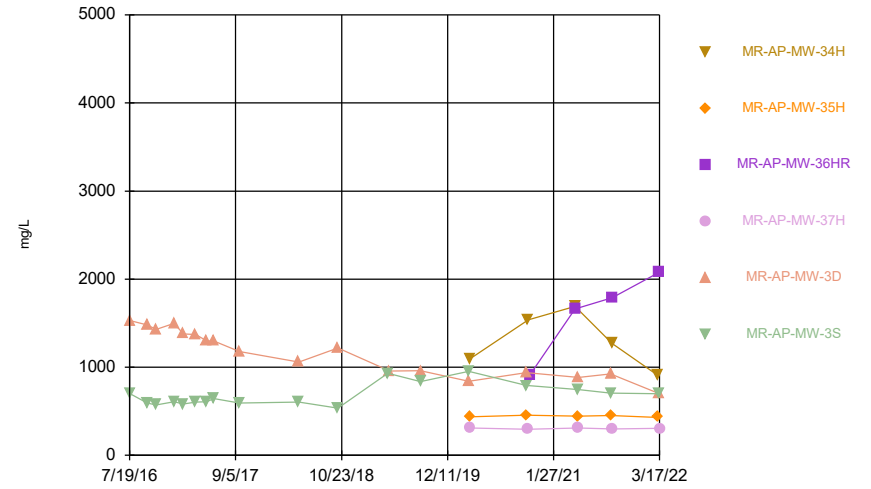
Constituent: Total Dissolved Solids [TDS] Analysis Run 5/17/2022 5:11 PM View: Time Series and Box PI Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



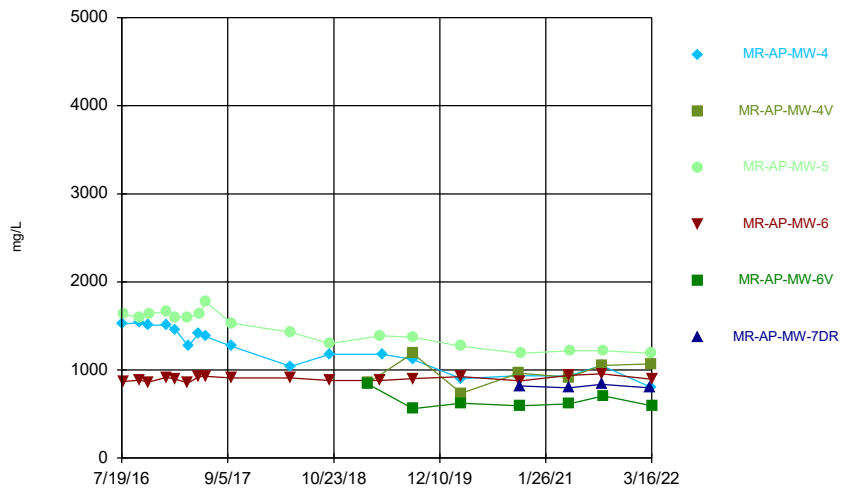
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Time Series



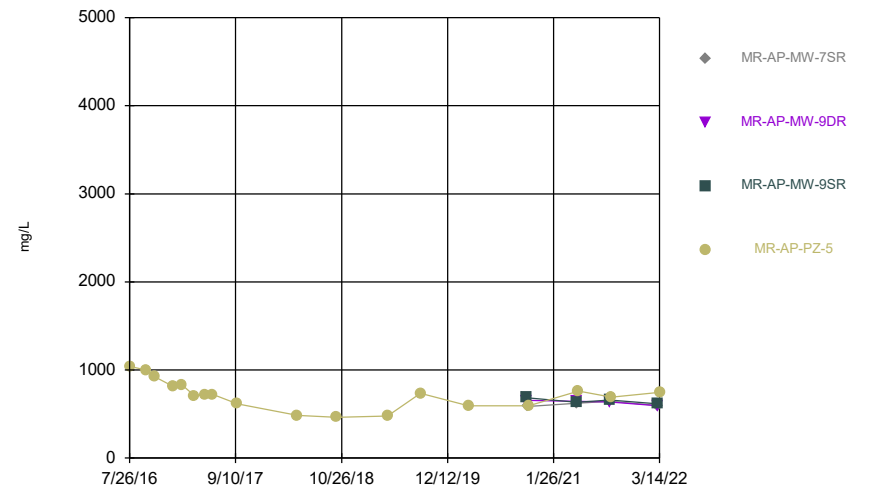
Constituent: Total Dissolved Solids [TDS] Analysis Run 5/17/2022 5:11 PM View: Time Series and Box PI Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 5/17/2022 5:11 PM View: Time Series and Box PI Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 5/17/2022 5:11 PM View: Time Series and Box PI Plant Miller Client: Southern Company Data: Miller Ash Pond

# Time Series

Constituent: Antimony (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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	<0.00102	<0.00102
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					<0.00102	<0.00102
10/25/2016	0.003		0.003			
10/31/2016					<0.00102	
11/1/2016						<0.00102
11/2/2016				<0.00102		
12/13/2016	0.003		0.00067 (J)			
1/11/2017				<0.00102	<0.00102	
1/12/2017						<0.00102
2/6/2017			0.003			
2/8/2017	0.003					
2/13/2017				<0.00102		<0.00102
2/14/2017					<0.00102	
3/28/2017			0.003			
3/29/2017	0.003					
4/3/2017				<0.00102		
4/4/2017						<0.00102
4/6/2017					<0.00102	
4/24/2017			0.003			
4/26/2017	0.003					
5/15/2017				<0.00102		
5/16/2017						<0.00102
5/17/2017					<0.00102	
6/7/2017	<0.00102		<0.00102			
6/13/2017					<0.00102	
6/14/2017				<0.00102		<0.00102
1/31/2018					<0.00102	
2/1/2018				<0.00102		<0.00102
2/19/2018			<0.00102			
2/20/2018	<0.00102					
5/8/2018						<0.00102
5/9/2018				<0.00102		
5/10/2018					<0.00102	
5/15/2018	<0.00102		<0.00102			
10/8/2018					<0.00102	
10/9/2018				<0.00102		<0.00102
10/16/2018			<0.00102			
10/17/2018	<0.00102					
2/20/2019		0.00115 (J)				
4/16/2019	<0.00102		<0.00102			
4/24/2019					<0.00102	
5/1/2019				<0.00102		<0.00102
8/27/2019				<0.00102		
8/28/2019						<0.00102
8/29/2019					<0.00102	
9/24/2019		<0.00102	<0.00102			
3/3/2020						<0.00102

# Time Series

Constituent: Antimony (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots  
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	<0.00102	
3/18/2020			<0.00102			
3/25/2020	<0.00102					
9/21/2020			<0.00102			
9/23/2020	<0.00102					
10/19/2020				<0.00102	<0.00102	
10/20/2020						<0.00102
2/2/2021	<0.00102		<0.00102			
4/20/2021				<0.00102		
4/21/2021						<0.00102
5/3/2021					<0.00102	
8/2/2021	<0.00102					
8/10/2021			<0.00102			
9/8/2021				<0.00102		
9/14/2021						<0.00102
9/15/2021					<0.00102	
2/14/2022	<0.00102					
2/16/2022			<0.00102			
3/15/2022				<0.00102		
3/16/2022						<0.00102
3/17/2022					<0.00102	

# Time Series

Constituent: Antimony (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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					<0.00102	<0.00102
7/20/2016	0.00069 (J)					
9/26/2016					<0.00102	<0.00102
9/27/2016	0.000757 (J)					
10/31/2016					<0.00102	<0.00102
11/1/2016	<0.00102					
1/9/2017					<0.00102	<0.00102
1/11/2017	<0.00102					
2/14/2017					<0.00102	0.000801 (J)
2/15/2017	<0.00102					
4/3/2017						<0.00102
4/4/2017	0.000652 (J)				<0.00102	
5/15/2017	0.000849 (J)					
5/16/2017					<0.00102	<0.00102
6/12/2017					<0.00102	<0.00102
6/14/2017	<0.00102					
1/30/2018	<0.00102					
1/31/2018					<0.00102	
2/1/2018						<0.00102
5/7/2018					<0.00102	<0.00102
5/8/2018	<0.00102					
10/8/2018	<0.00102					
10/9/2018					<0.00102	<0.00102
4/24/2019					<0.00102	0.00107 (J)
8/28/2019	<0.00102				<0.00102	<0.00102
3/3/2020						<0.00102
3/4/2020					<0.00102	
3/10/2020	<0.00102					
10/13/2020					<0.00102	<0.00102
10/19/2020	<0.00102					
10/20/2020		<0.00102	<0.00102	<0.00102		
4/21/2021		<0.00102	<0.00102	<0.00102		0.000768 (J)
4/26/2021					<0.00102	
5/5/2021	<0.00102					
9/1/2021					<0.00102	<0.00102
9/7/2021	0.00056 (J)	<0.00102	<0.00102			
9/13/2021				<0.00102		
3/8/2022						<0.00102
3/9/2022		<0.00102	<0.00102	<0.00102	<0.00102	
3/17/2022	0.00058 (J)					

# Time Series

Constituent: Antimony (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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				<0.00102		
9/28/2016				<0.00102		
11/1/2016				<0.00102		
1/11/2017				<0.00102		
2/14/2017				<0.00102		
4/4/2017				<0.00102		
5/16/2017				<0.00102		
6/14/2017				<0.00102		
2/1/2018				<0.00102		
5/9/2018				<0.00102		
10/9/2018				<0.00102		
3/6/2019	<0.00102	<0.00102			<0.00102	<0.00102
5/1/2019				<0.00102		
8/27/2019	<0.00102	<0.00102		<0.00102		
9/3/2019					<0.00102	<0.00102
3/3/2020				<0.00102		
3/9/2020			<0.00102			
3/10/2020	<0.00102	<0.00102			<0.00102	<0.00102
10/13/2020	<0.00102	<0.00102				
10/14/2020			<0.00102			
10/19/2020					<0.00102	<0.00102
10/21/2020				<0.00102		
4/20/2021			<0.00102			
4/26/2021				<0.00102		
4/28/2021					<0.00102	
5/3/2021						<0.00102
5/5/2021	<0.00102	<0.00102				
9/7/2021	<0.00102					
9/8/2021					<0.00102	<0.00102
9/13/2021			<0.00102			
9/14/2021		<0.00102		<0.00102		
3/8/2022	<0.00102	<0.00102				
3/9/2022			<0.00102		<0.00102	<0.00102
3/16/2022				<0.00102		



# Time Series

Constituent: Antimony (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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	<0.00102					
8/28/2019	<0.00102					
3/9/2020	<0.00102			<0.00102		
10/13/2020	<0.00102					
10/14/2020			<0.00102	<0.00102	<0.00102	
10/20/2020		<0.00102				
10/26/2020	<0.00102					
4/20/2021		<0.00102	<0.00102			
4/27/2021	<0.00102					0.000758 (J)
4/28/2021	<0.00102					
5/5/2021				<0.00102		
6/16/2021	<0.00102	<0.00102	<0.00102			<0.00102
9/14/2021	<0.00102	0.00072 (J)				
9/15/2021		<0.00102	<0.00102	0.00056 (J)	0.00057 (J)	
3/15/2022				0.0009 (J)		
3/16/2022		<0.00102	<0.00102			0.00109
3/17/2022	<0.00102	0.00114				

# Time Series

Constituent: Antimony (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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						<0.00102
3/9/2020		<0.00102				
3/10/2020			<0.00102		<0.00102	
10/14/2020						<0.00102
10/15/2020					<0.00102	
10/19/2020		<0.00102				
10/20/2020			<0.00102			
10/26/2020	<0.00102					
10/27/2020				<0.00102		
4/20/2021		<0.00102				
4/21/2021			<0.00102			
4/27/2021				<0.00102		
4/28/2021					<0.00102	
5/3/2021	<0.00102					<0.00102
9/8/2021						<0.00102
9/13/2021		<0.00102	<0.00102	<0.00102		
9/14/2021	<0.00102				<0.00102	
3/9/2022					<0.00102	
3/14/2022	<0.00102	<0.00102				<0.00102
3/16/2022			<0.00102	<0.00102		

# Time Series

Constituent: Antimony (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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					<0.00102	<0.00102
10/31/2016					<0.00102	<0.00102
1/9/2017					<0.00102	<0.00102
2/13/2017					<0.00102	<0.00102
4/3/2017					<0.00102	<0.00102
5/16/2017					<0.00102	<0.00102
6/12/2017					<0.00102	<0.00102
1/29/2018					<0.00102	<0.00102
5/10/2018					<0.00102	<0.00102
10/9/2018					<0.00102	<0.00102
4/22/2019						0.00126 (J)
4/29/2019					0.00118 (J)	
8/27/2019					<0.00102	<0.00102
3/3/2020					<0.00102	<0.00102
3/9/2020	<0.00102			0.00201 (J)		
3/10/2020		<0.00102				
10/13/2020		<0.00102			<0.00102	<0.00102
10/19/2020				0.0015 (J)		
10/21/2020	<0.00102					
10/27/2020			<0.00102			
4/21/2021	<0.00102		<0.00102			
5/3/2021				0.00123		
5/5/2021		<0.00102			<0.00102	<0.00102
9/7/2021		<0.00102			<0.00102	<0.00102
9/13/2021	<0.00102		<0.00102			
9/15/2021				0.00098 (J)		
3/8/2022		<0.00102				
3/9/2022	<0.00102					
3/16/2022			<0.00102		<0.00102	<0.00102
3/17/2022				0.00105		

# Time Series

Constituent: Antimony (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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			<0.00102	<0.00102		
9/27/2016	<0.00102					
9/28/2016			<0.00102	<0.00102		
11/1/2016	<0.00102			<0.00102		
11/2/2016			<0.00102			
1/9/2017	<0.00102			<0.00102		
1/10/2017			<0.00102			
2/13/2017	<0.00102			<0.00102		
2/14/2017			<0.00102			
4/3/2017			<0.00102	<0.00102		
4/4/2017	<0.00102					
5/16/2017	<0.00102			<0.00102		
5/17/2017			<0.00102			
6/12/2017	<0.00102		<0.00102	<0.00102		
1/29/2018	<0.00102					
2/1/2018			<0.00102	<0.00102		
5/9/2018	<0.00102		<0.00102	<0.00102		
10/8/2018	<0.00102		<0.00102	<0.00102		
3/5/2019		0.000933 (J)			<0.00102	
4/23/2019			<0.00102	<0.00102		
4/29/2019	<0.00102					
8/27/2019	<0.00102	<0.00102				
8/28/2019			<0.00102	<0.00102	<0.00102	
3/2/2020			<0.00102			
3/3/2020				<0.00102	<0.00102	
3/4/2020	<0.00102	<0.00102				
10/14/2020	<0.00102	<0.00102				
10/19/2020					<0.00102	
10/20/2020				<0.00102		<0.00102
10/21/2020			<0.00102			
4/26/2021	<0.00102	<0.00102				
4/27/2021						<0.00102
4/28/2021				<0.00102	<0.00102	
5/3/2021			<0.00102			
9/1/2021	<0.00102	<0.00102		<0.00102		<0.00102
9/8/2021			<0.00102		<0.00102	
3/8/2022						<0.00102
3/14/2022			<0.00102			
3/15/2022	<0.00102	<0.00102				
3/16/2022				<0.00102	<0.00102	

# Time Series

Constituent: Antimony (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	MR-AP-MW-7SR	MR-AP-MW-9DR	MR-AP-MW-9SR	MR-AP-PZ-5
7/26/2016				<0.00102
9/28/2016				<0.00102
11/2/2016				<0.00102
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				<0.00102
5/9/2018				0.00103 (J)
10/8/2018				<0.00102
4/23/2019				0.0009 (J)
8/29/2019				<0.00102
3/2/2020				<0.00102
10/15/2020		<0.00102	<0.00102	
10/20/2020	<0.00102			
10/21/2020				<0.00102
4/27/2021	<0.00102	<0.00102	<0.00102	
5/3/2021				<0.00102
9/1/2021	<0.00102	<0.00102	<0.00102	
9/8/2021				<0.00102
3/8/2022	<0.00102	<0.00102	<0.00102	
3/14/2022				<0.00102

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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)	<0.0002
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)	<0.0002
10/25/2016	0.005		0.005			
10/31/2016					0.00261 (J)	
11/1/2016						<0.0002
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						<0.0002
2/6/2017			0.00111 (J)			
2/8/2017	0.005					
2/13/2017				0.0024 (J)		<0.0002
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						<0.0002
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						<0.0002
5/17/2017					0.00213 (J)	
6/7/2017	<0.0002		<0.0002			
6/13/2017					0.00218 (J)	
6/14/2017				0.00151 (J)		<0.0002
1/31/2018					0.00229 (J)	
2/1/2018				0.00284 (J)		<0.0002
2/19/2018			<0.0002			
2/20/2018	<0.0002					
5/8/2018						<0.0002
5/9/2018				0.00109 (J)		
5/10/2018					0.00215 (J)	
5/15/2018	<0.0002		<0.0002			
10/8/2018					0.00184 (J)	
10/9/2018				0.00174 (J)		<0.0002
10/16/2018			<0.0002			
10/17/2018	<0.0002					
2/20/2019		0.0011 (J)				
4/16/2019	<0.0002		<0.0002			
4/24/2019					0.00193 (J)	
5/1/2019				0.00229 (J)		<0.0002
8/27/2019				0.00211 (J)		
8/28/2019						<0.0002
8/29/2019					0.00177 (J)	
9/24/2019		0.00149 (J)	<0.0002			
3/3/2020						<0.0002

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots  
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			<0.0002			
3/25/2020		<0.0002				
9/21/2020			<0.0002			
9/23/2020		<0.0002				
10/19/2020				0.00351 (J)	0.00186 (J)	
10/20/2020						<0.0002
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	

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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	0.00159 (J)
7/20/2016	0.00169 (J)					
9/26/2016					<0.0002	<0.0002
9/27/2016	0.00187 (J)					
10/31/2016					<0.0002	<0.0002
11/1/2016	0.00203 (J)					
1/9/2017					<0.0002	<0.0002
1/11/2017	0.00196 (J)					
2/14/2017					<0.0002	<0.0002
2/15/2017	0.00189 (J)					
4/3/2017						<0.0002
4/4/2017	0.00186 (J)				<0.0002	
5/15/2017	0.00167 (J)					
5/16/2017					<0.0002	<0.0002
6/12/2017					<0.0002	<0.0002
6/14/2017	0.00161 (J)					
1/30/2018	0.00189 (J)					
1/31/2018					<0.0002	
2/1/2018						<0.0002
5/7/2018					<0.0002	<0.0002
5/8/2018	0.00222 (J)					
10/8/2018	0.0024 (J)					
10/9/2018					<0.0002	<0.0002
4/24/2019					<0.0002	<0.0002
8/28/2019	0.00297 (J)				<0.0002	<0.0002
3/3/2020						<0.0002
3/4/2020					<0.0002	
3/10/2020	0.00353 (J)					
10/13/2020					<0.0002	<0.0002
10/19/2020	0.00463 (J)					
10/20/2020		<0.0002	<0.0002	<0.0002		
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					



# Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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	<0.0002	<0.0002			<0.0002	<0.0002
5/1/2019				0.0039 (J)		
8/27/2019	<0.0002	<0.0002		0.00194 (J)		
9/3/2019					0.00104 (J)	<0.0002
3/3/2020				0.00238 (J)		
3/9/2020			0.00384 (J)			
3/10/2020	<0.0002	<0.0002			<0.0002	<0.0002
10/13/2020	<0.0002	<0.0002				
10/14/2020			0.00247 (J)			
10/19/2020					0.00105 (J)	<0.0002
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	<0.0002	0.00028				
3/9/2022			0.00061		0.00087	0.0003
3/16/2022				0.00394		

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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)			<0.0002		
10/13/2020	0.00366 (J)					
10/14/2020			0.00129 (J)	<0.0002		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				

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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	<0.0002					
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		

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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	<0.0002
10/19/2020				0.00192 (J)		
10/21/2020	<0.0002					
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		

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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			0.0112	<0.0002		
9/27/2016	<0.0002					
9/28/2016			0.00955	<0.0002		
11/1/2016	<0.0002			<0.0002		
11/2/2016			0.0129			
1/9/2017	<0.0002			<0.0002		
1/10/2017			0.0135			
2/13/2017	<0.0002			<0.0002		
2/14/2017			0.0141			
4/3/2017			0.0141	<0.0002		
4/4/2017	<0.0002					
5/16/2017	<0.0002			<0.0002		
5/17/2017			0.0138			
6/12/2017	<0.0002		0.0118	<0.0002		
1/29/2018	<0.0002					
2/1/2018			0.0142	<0.0002		
5/9/2018	<0.0002		0.0114	<0.0002		
10/8/2018	<0.0002		0.0109	<0.0002		
3/5/2019		0.00167 (J)			0.00146 (J)	
4/23/2019			0.0122	<0.0002		
4/29/2019	<0.0002					
8/27/2019	<0.0002	0.00149 (J)				
8/28/2019			0.0107	<0.0002	0.0151	
3/2/2020			0.0122			
3/3/2020				<0.0002	0.0236	
3/4/2020	<0.0002	<0.0002				
10/14/2020	<0.0002	<0.0002				
10/19/2020					0.00307 (J)	
10/20/2020				<0.0002		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		<0.0002		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	

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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				<0.0002
8/29/2019				0.00123 (J)
3/2/2020				0.0013 (J)
10/15/2020		<0.0002	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)

# Time Series

Constituent: Barium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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 5/17/2022 5:13 PM View: Time Series and Box Plots  
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	



# Time Series

Constituent: Barium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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					

# Time Series

Constituent: Barium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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		

# Time Series

Constituent: Barium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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				

# Time Series

Constituent: Barium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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		

# Time Series

Constituent: Barium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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		

# Time Series

Constituent: Barium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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	

# Time Series

Constituent: Barium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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	<0.00102	<0.00102
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					<0.00102	<0.00102
10/25/2016	0.003		0.003			
10/31/2016					<0.00102	
11/1/2016						<0.00102
11/2/2016				<0.00102		
12/13/2016	0.003		0.003			
1/11/2017				<0.00102	<0.00102	
1/12/2017						<0.00102
2/6/2017			0.003			
2/8/2017	0.003					
2/13/2017				<0.00102		<0.00102
2/14/2017					<0.00102	
3/28/2017			0.003			
3/29/2017	0.003					
4/3/2017				<0.00102		
4/4/2017						<0.00102
4/6/2017					<0.00102	
4/24/2017			0.003			
4/26/2017	0.003					
5/15/2017				<0.00102		
5/16/2017						<0.00102
5/17/2017					<0.00102	
6/7/2017	<0.00102		<0.00102			
6/13/2017					<0.00102	
6/14/2017				<0.00102		<0.00102
1/31/2018					<0.00102	
2/1/2018				<0.00102		<0.00102
2/19/2018			<0.00102			
2/20/2018	<0.00102					
5/8/2018						<0.00102
5/9/2018				<0.00102		
5/10/2018					<0.00102	
5/15/2018	<0.00102		<0.00102			
10/8/2018					<0.00102	
10/9/2018				<0.00102		<0.00102
10/16/2018			<0.00102			
10/17/2018	<0.00102					
2/20/2019		<0.00102				
4/16/2019	<0.00102		<0.00102			
4/24/2019					<0.00102	
5/1/2019				<0.00102		<0.00102
8/27/2019				<0.00102		
8/28/2019						<0.00102
8/29/2019					<0.00102	
9/24/2019		<0.00102	<0.00102			
3/3/2020						<0.00102



# Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots  
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	<0.00102	
3/18/2020			<0.00102			
3/25/2020	<0.00102					
9/21/2020			<0.00102			
9/23/2020	<0.00102					
10/19/2020				<0.00102	<0.00102	
10/20/2020						<0.00102
2/2/2021	<0.00102		<0.00102			
4/20/2021				<0.00102		
4/21/2021						<0.00102
5/3/2021					<0.00102	
8/2/2021	<0.00102					
8/10/2021			<0.00102			
9/8/2021				<0.00102		
9/14/2021						<0.00102
9/15/2021					<0.00102	
2/14/2022	<0.00102					
2/16/2022			<0.00102			
3/15/2022				<0.00102		
3/16/2022						<0.00102
3/17/2022				<0.00102		

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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					<0.00102	<0.00102
7/20/2016	<0.00102					
9/26/2016					<0.00102	<0.00102
9/27/2016	<0.00102					
10/31/2016					<0.00102	<0.00102
11/1/2016	<0.00102					
1/9/2017					<0.00102	<0.00102
1/11/2017	<0.00102					
2/14/2017					<0.00102	<0.00102
2/15/2017	<0.00102					
4/3/2017						<0.00102
4/4/2017	<0.00102				<0.00102	
5/15/2017	<0.00102					
5/16/2017					<0.00102	<0.00102
6/12/2017					<0.00102	<0.00102
6/14/2017	<0.00102					
1/30/2018	<0.00102					
1/31/2018					<0.00102	
2/1/2018						<0.00102
5/7/2018					<0.00102	<0.00102
5/8/2018	<0.00102					
10/8/2018	<0.00102					
10/9/2018					<0.00102	<0.00102
4/24/2019					<0.00102	<0.00102
8/28/2019	<0.00102				<0.00102	<0.00102
3/3/2020						<0.00102
3/4/2020					<0.00102	
3/10/2020	<0.00102					
10/13/2020					<0.00102	<0.00102
10/19/2020	<0.00102					
10/20/2020		<0.00102	<0.00102	<0.00102		
4/21/2021		<0.00102	<0.00102	<0.00102		<0.00102
4/26/2021					<0.00102	
5/5/2021	<0.00102					
9/1/2021					<0.00102	<0.00102
9/7/2021	<0.00102	<0.00102	0.00166			
9/13/2021				<0.00102		
3/8/2022						<0.00102
3/9/2022		<0.00102	0.00171	<0.00102	<0.00102	
3/17/2022	<0.00102					

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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				<0.00102		
9/28/2016				<0.00102		
11/1/2016				<0.00102		
1/11/2017				<0.00102		
2/14/2017				<0.00102		
4/4/2017				<0.00102		
5/16/2017				<0.00102		
6/14/2017				<0.00102		
2/1/2018				<0.00102		
5/9/2018				<0.00102		
10/9/2018				<0.00102		
3/6/2019	<0.00102	<0.00102			<0.00102	<0.00102
5/1/2019				<0.00102		
8/27/2019	<0.00102	<0.00102		<0.00102		
9/3/2019					<0.00102	<0.00102
3/3/2020				<0.00102		
3/9/2020			<0.00102			
3/10/2020	<0.00102	<0.00102			<0.00102	<0.00102
10/13/2020	<0.00102	<0.00102				
10/14/2020			<0.00102			
10/19/2020					<0.00102	<0.00102
10/21/2020				<0.00102		
4/20/2021			<0.00102			
4/26/2021				<0.00102		
4/28/2021					<0.00102	
5/3/2021						<0.00102
5/5/2021	0.000633 (J)	<0.00102				
9/7/2021	<0.00102					
9/8/2021					<0.00102	<0.00102
9/13/2021			<0.00102			
9/14/2021		<0.00102		<0.00102		
3/8/2022	<0.00102	<0.00102				
3/9/2022			<0.00102		<0.00102	<0.00102
3/16/2022				<0.00102		

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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	<0.00102					
8/28/2019	<0.00102					
3/9/2020	<0.00102			<0.00102		
10/13/2020	<0.00102					
10/14/2020			<0.00102	<0.00102	<0.00102	
10/20/2020		<0.00102				
10/26/2020	<0.00102					
4/20/2021		<0.00102	<0.00102			
4/27/2021	<0.00102					<0.00102
4/28/2021	<0.00102					
5/5/2021				<0.00102		
6/16/2021	<0.00102	<0.00102	<0.00102			<0.00102
9/14/2021	<0.00102	<0.00102				
9/15/2021		<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
3/15/2022				<0.00102		
3/16/2022		<0.00102	<0.00102			<0.00102
3/17/2022	<0.00102	<0.00102				

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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						<0.00102
3/9/2020		<0.00102				
3/10/2020			<0.00102		<0.00102	
10/14/2020						<0.00102
10/15/2020					<0.00102	
10/19/2020		<0.00102				
10/20/2020			<0.00102			
10/26/2020	<0.00102					
10/27/2020				<0.00102		
4/20/2021		<0.00102				
4/21/2021			<0.00102			
4/27/2021				<0.00102		
4/28/2021					<0.00102	
5/3/2021	<0.00102					<0.00102
9/8/2021						<0.00102
9/13/2021		<0.00102	<0.00102	<0.00102		
9/14/2021	<0.00102				<0.00102	
3/9/2022					<0.00102	
3/14/2022	<0.00102	<0.00102				<0.00102
3/16/2022			<0.00102	<0.00102		

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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					<0.00102	<0.00102
9/26/2016					<0.00102	<0.00102
10/31/2016					<0.00102	<0.00102
1/9/2017					<0.00102	<0.00102
2/13/2017					<0.00102	<0.00102
4/3/2017					<0.00102	<0.00102
5/16/2017					<0.00102	<0.00102
6/12/2017					<0.00102	<0.00102
1/29/2018					<0.00102	<0.00102
5/10/2018					<0.00102	<0.00102
10/9/2018					<0.00102	<0.00102
4/22/2019						<0.00102
4/29/2019					<0.00102	
8/27/2019					<0.00102	<0.00102
3/3/2020					<0.00102	<0.00102
3/9/2020	<0.00102			<0.00102		
3/10/2020		<0.00102				
10/13/2020		<0.00102			<0.00102	<0.00102
10/19/2020				<0.00102		
10/21/2020	<0.00102					
10/27/2020			<0.00102			
4/21/2021	<0.00102		<0.00102			
5/3/2021				<0.00102		
5/5/2021		<0.00102			<0.00102	<0.00102
9/7/2021		<0.00102			<0.00102	<0.00102
9/13/2021	<0.00102		<0.00102			
9/15/2021				<0.00102		
3/8/2022		<0.00102				
3/9/2022	<0.00102					
3/16/2022			<0.00102		<0.00102	<0.00102
3/17/2022				<0.00102		

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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			<0.00102	<0.00102		
9/27/2016	<0.00102					
9/28/2016			<0.00102	<0.00102		
11/1/2016	<0.00102			<0.00102		
11/2/2016			<0.00102			
1/9/2017	<0.00102			<0.00102		
1/10/2017			<0.00102			
2/13/2017	<0.00102			<0.00102		
2/14/2017			<0.00102			
4/3/2017			<0.00102	<0.00102		
4/4/2017	<0.00102					
5/16/2017	<0.00102			<0.00102		
5/17/2017			<0.00102			
6/12/2017	<0.00102		<0.00102	<0.00102		
1/29/2018	<0.00102					
2/1/2018			<0.00102	<0.00102		
5/9/2018	<0.00102		<0.00102	<0.00102		
10/8/2018	<0.00102		<0.00102	<0.00102		
3/5/2019		<0.00102			<0.00102	
4/23/2019			<0.00102	<0.00102		
4/29/2019	<0.00102					
8/27/2019	<0.00102	<0.00102				
8/28/2019			<0.00102	<0.00102	<0.00102	
3/2/2020			<0.00102			
3/3/2020				<0.00102	<0.00102	
3/4/2020	<0.00102	<0.00102				
10/14/2020	<0.00102	<0.00102				
10/19/2020					<0.00102	
10/20/2020				<0.00102		<0.00102
10/21/2020			<0.00102			
4/26/2021	<0.00102	<0.00102				
4/27/2021						<0.00102
4/28/2021				<0.00102	<0.00102	
5/3/2021			<0.00102			
9/1/2021	<0.00102	<0.00102		<0.00102		<0.00102
9/8/2021			<0.00102		<0.00102	
3/8/2022						<0.00102
3/14/2022			<0.00102			
3/15/2022	<0.00102	<0.00102				
3/16/2022				<0.00102	<0.00102	

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	MR-AP-MW-7SR	MR-AP-MW-9DR	MR-AP-MW-9SR	MR-AP-PZ-5
7/26/2016				<0.00102
9/28/2016				<0.00102
11/2/2016				<0.00102
1/12/2017				<0.00102
2/13/2017				<0.00102
4/3/2017				<0.00102
5/17/2017				<0.00102
6/12/2017				<0.00102
2/1/2018				<0.00102
5/9/2018				<0.00102
10/8/2018				<0.00102
4/23/2019				<0.00102
8/29/2019				<0.00102
3/2/2020				<0.00102
10/15/2020		<0.00102	<0.00102	
10/20/2020	<0.00102			
10/21/2020				<0.00102
4/27/2021	<0.00102	<0.00102	<0.00102	
5/3/2021				<0.00102
9/1/2021	<0.00102	<0.00102	<0.00102	
9/8/2021				<0.00102
3/8/2022	<0.00102	<0.00102	<0.00102	
3/14/2022				<0.00102



# Time Series

Constituent: Boron, total (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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	<0.1015		<0.1015			
6/13/2017					2.67	
6/14/2017				0.0603 (J)		0.026 (J)
8/21/2017			<0.1015			
8/22/2017	<0.1015					
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	<0.1015		<0.1015			
10/8/2018					3.46	
10/9/2018				0.0559 (J)		0.0262 (J)
10/16/2018			<0.1015			
10/17/2018	<0.1015					
2/20/2019		0.0337 (J)				
4/16/2019	<0.1015		<0.1015			
4/24/2019					3.61	
5/1/2019				<0.1015		<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 5/17/2022 5:13 PM View: Time Series and Box Plots

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	

# Time Series

Constituent: Boron, total (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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					

# Time Series

Constituent: Boron, total (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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		

# Time Series

Constituent: Boron, total (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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				

# Time Series

Constituent: Boron, total (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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)		

# Time Series

Constituent: Boron, total (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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		

# Time Series

Constituent: Boron, total (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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	



# Time Series

Constituent: Boron, total (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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	<0.0002		<0.0002			
6/13/2017					<0.0002	
6/14/2017				<0.0002		<0.0002
1/31/2018					<0.0002	
2/1/2018				0.000372 (J)		<0.0002
2/19/2018			<0.0002			
2/20/2018	<0.0002					
5/8/2018						<0.0002
5/9/2018				<0.0002		
5/10/2018					<0.0002	
5/15/2018	<0.0002		<0.0002			
10/8/2018					<0.0002	
10/9/2018				<0.0002		<0.0002
10/16/2018			<0.0002			
10/17/2018	<0.0002					
2/20/2019		<0.0002				
4/16/2019	<0.0002		<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: Cadmium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots  
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					9E-05 (J)	

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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	0.000222 (J)
7/20/2016	<0.0002					
9/26/2016					<0.0002	0.000208 (J)
9/27/2016	<0.0002					
10/31/2016					<0.0002	<0.0002
11/1/2016	<0.0002					
1/9/2017					<0.0002	<0.0002
1/11/2017	<0.0002					
2/14/2017					<0.0002	<0.0002
2/15/2017	<0.0002					
4/3/2017						<0.0002
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	<0.0002
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	<0.0002	<0.0002		
4/21/2021		<0.0002	<0.0002	<0.0002		<0.0002
4/26/2021					<0.0002	
5/5/2021	9.27E-05 (J)					
9/1/2021					<0.0002	<0.0002
9/7/2021	0.00012 (J)	<0.0002	<0.0002			
9/13/2021				<0.0002		
3/8/2022						<0.0002
3/9/2022		<0.0002	0.0001 (J)	<0.0002	<0.0002	
3/17/2022	0.00016 (J)					

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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				0.000219 (J)		
11/1/2016				<0.0002		
1/11/2017				<0.0002		
2/14/2017				<0.0002		
4/4/2017				<0.0002		
5/16/2017				<0.0002		
6/14/2017				<0.0002		
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		

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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
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
3/17/2022	<0.0002	<0.0002				

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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		

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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		



# Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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			<0.0002	<0.0002		
9/27/2016	0.00021 (J)					
9/28/2016			<0.0002	<0.0002		
11/1/2016	0.000239 (J)			<0.0002		
11/2/2016			<0.0002			
1/9/2017	0.000248 (J)			<0.0002		
1/10/2017			<0.0002			
2/13/2017	0.00031 (J)			<0.0002		
2/14/2017			<0.0002			
4/3/2017			<0.0002	<0.0002		
4/4/2017	0.000241 (J)					
5/16/2017	0.000266 (J)			<0.0002		
5/17/2017			<0.0002			
6/12/2017	0.000272 (J)		<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	7.3E-05 (J)	<0.0002				
4/27/2021						<0.0002
4/28/2021				<0.0002	<0.0002	
5/3/2021			<0.0002			
9/1/2021	8E-05 (J)	<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	<0.0002	<0.0002				
3/16/2022				<0.0002	<0.0002	

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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

# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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 5/17/2022 5:13 PM View: Time Series and Box Plots

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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	

# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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					

# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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		

# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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				

# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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		



# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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		

# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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	

# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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

# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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 5/17/2022 5:13 PM View: Time Series and Box Plots

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	

# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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					

# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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		

# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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				



# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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		

# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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		

# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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	

# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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

# Time Series

Constituent: Chromium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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	<0.00102
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					<0.00102	<0.00102
10/25/2016	0.01		0.01			
10/31/2016					<0.00102	
11/1/2016						<0.00102
11/2/2016				0.00481 (J)		
12/13/2016	0.01		0.01			
1/11/2017				0.00431 (J)	<0.00102	
1/12/2017						<0.00102
2/6/2017			0.01			
2/8/2017	0.01					
2/13/2017				0.0061 (J)		<0.00102
2/14/2017					<0.00102	
3/28/2017			0.00322 (J)			
3/29/2017	0.01					
4/3/2017				0.00215 (J)		
4/4/2017						<0.00102
4/6/2017					<0.00102	
4/24/2017			0.01			
4/26/2017	0.01					
5/15/2017				0.0123		
5/16/2017						<0.00102
5/17/2017					<0.00102	
6/7/2017	<0.00102		0.00227 (J)			
6/13/2017					<0.00102	
6/14/2017				0.00558 (J)		<0.00102
1/31/2018					<0.00102	
2/1/2018				0.00287 (J)		<0.00102
2/19/2018			<0.00102			
2/20/2018	<0.00102					
5/8/2018						<0.00102
5/9/2018				<0.00102		
5/10/2018					<0.00102	
5/15/2018	<0.00102		<0.00102			
10/8/2018					<0.00102	
10/9/2018				0.00248 (J)		<0.00102
10/16/2018			<0.00102			
10/17/2018	<0.00102					
2/20/2019		<0.00102				
4/16/2019	<0.00102		<0.00102			
4/24/2019					<0.00102	
5/1/2019				<0.00102		<0.00102
8/27/2019				0.00336 (J)		
8/28/2019						<0.00102
8/29/2019					<0.00102	
9/24/2019		0.00405 (J)	<0.00102			
3/3/2020						<0.00102

# Time Series

Constituent: Chromium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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	<0.00102	
3/18/2020			<0.00102			
3/25/2020	<0.00102					
9/21/2020			<0.00102			
9/23/2020	<0.00102					
10/19/2020				0.00527 (J)	<0.00102	
10/20/2020						<0.00102
2/2/2021	0.000313 (J)		0.000389 (J)			
4/20/2021				0.00235		
4/21/2021						<0.00102
5/3/2021					<0.00102	
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	

# Time Series

Constituent: Chromium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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					<0.00102	<0.00102
7/20/2016	<0.00102					
9/26/2016					<0.00102	<0.00102
9/27/2016	<0.00102					
10/31/2016					<0.00102	<0.00102
11/1/2016	<0.00102					
1/9/2017					<0.00102	<0.00102
1/11/2017	<0.00102					
2/14/2017					<0.00102	<0.00102
2/15/2017	<0.00102					
4/3/2017						<0.00102
4/4/2017	<0.00102				<0.00102	
5/15/2017	<0.00102					
5/16/2017					<0.00102	<0.00102
6/12/2017					<0.00102	<0.00102
6/14/2017	<0.00102					
1/30/2018	<0.00102					
1/31/2018					<0.00102	
2/1/2018						<0.00102
5/7/2018					<0.00102	<0.00102
5/8/2018	<0.00102					
10/8/2018	<0.00102					
10/9/2018					<0.00102	<0.00102
4/24/2019					<0.00102	<0.00102
8/28/2019	<0.00102				<0.00102	<0.00102
3/3/2020						<0.00102
3/4/2020					<0.00102	
3/10/2020	<0.00102					
10/13/2020					<0.00102	<0.00102
10/19/2020	<0.00102					
10/20/2020		<0.00102	<0.00102	<0.00102		
4/21/2021		0.000207 (J)	0.000239 (J)	0.000239 (J)		<0.00102
4/26/2021					<0.00102	
5/5/2021	<0.00102					
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						<0.00102
3/9/2022		<0.00102	0.00068 (J)	<0.00102	0.00028 (J)	
3/17/2022	0.00048 (J)					

# Time Series

Constituent: Chromium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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				<0.00102		
9/28/2016				<0.00102		
11/1/2016				<0.00102		
1/11/2017				<0.00102		
2/14/2017				<0.00102		
4/4/2017				<0.00102		
5/16/2017				<0.00102		
6/14/2017				<0.00102		
2/1/2018				<0.00102		
5/9/2018				<0.00102		
10/9/2018				<0.00102		
3/6/2019	<0.00102	<0.00102			<0.00102	<0.00102
5/1/2019				<0.00102		
8/27/2019	<0.00102	<0.00102		<0.00102		
9/3/2019					<0.00102	<0.00102
3/3/2020				<0.00102		
3/9/2020			<0.00102			
3/10/2020	<0.00102	<0.00102			<0.00102	<0.00102
10/13/2020	<0.00102	<0.00102				
10/14/2020			<0.00102			
10/19/2020					<0.00102	<0.00102
10/21/2020				<0.00102		
4/20/2021			<0.00102			
4/26/2021				0.00021 (J)		
4/28/2021					0.000229 (J)	
5/3/2021						<0.00102
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	<0.00102	0.00023 (J)				
3/9/2022			<0.00102		0.00021 (J)	0.00022 (J)
3/16/2022				<0.00102		



# Time Series

Constituent: Chromium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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	<0.00102					
8/28/2019	<0.00102					
3/9/2020	<0.00102			<0.00102		
10/13/2020	<0.00102					
10/14/2020			<0.00102	<0.00102	<0.00102	
10/20/2020		<0.00102				
10/26/2020	<0.00102					
4/20/2021		<0.00102	<0.00102			
4/27/2021	0.000308 (J)				<0.00102	
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)				

# Time Series

Constituent: Chromium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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						<0.00102
3/9/2020		<0.00102				
3/10/2020			<0.00102		<0.00102	
10/14/2020						<0.00102
10/15/2020					<0.00102	
10/19/2020		<0.00102				
10/20/2020			<0.00102			
10/26/2020	<0.00102					
10/27/2020				<0.00102		
4/20/2021		<0.00102				
4/21/2021			<0.00102			
4/27/2021				<0.00102		
4/28/2021					0.000309 (J)	
5/3/2021	0.000203 (J)					0.000276 (J)
9/8/2021						0.00025 (J)
9/13/2021		0.00027 (J)	0.00032 (J)	0.00033 (J)		
9/14/2021	0.00039 (J)				0.00037 (J)	
3/9/2022					0.00024 (J)	
3/14/2022	0.00036 (J)	<0.00102				<0.00102
3/16/2022			0.00021 (J)	0.00021 (J)		

# Time Series

Constituent: Chromium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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					<0.00102	<0.00102
9/26/2016					<0.00102	<0.00102
10/31/2016					<0.00102	<0.00102
1/9/2017					<0.00102	<0.00102
2/13/2017					<0.00102	<0.00102
4/3/2017					<0.00102	<0.00102
5/16/2017					<0.00102	<0.00102
6/12/2017					<0.00102	<0.00102
1/29/2018					<0.00102	<0.00102
5/10/2018					<0.00102	<0.00102
10/9/2018					<0.00102	<0.00102
4/22/2019						<0.00102
4/29/2019					<0.00102	
8/27/2019					<0.00102	<0.00102
3/3/2020					<0.00102	<0.00102
3/9/2020	<0.00102			<0.00102		
3/10/2020		<0.00102				
10/13/2020		<0.00102			<0.00102	<0.00102
10/19/2020				<0.00102		
10/21/2020	<0.00102					
10/27/2020			<0.00102			
4/21/2021	<0.00102		<0.00102			
5/3/2021				0.000234 (J)		
5/5/2021		<0.00102			<0.00102	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)		

# Time Series

Constituent: Chromium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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			<0.00102	<0.00102		
9/27/2016	<0.00102					
9/28/2016			<0.00102	<0.00102		
11/1/2016	<0.00102			<0.00102		
11/2/2016			<0.00102			
1/9/2017	<0.00102			<0.00102		
1/10/2017			<0.00102			
2/13/2017	<0.00102			<0.00102		
2/14/2017			<0.00102			
4/3/2017			<0.00102	<0.00102		
4/4/2017	<0.00102					
5/16/2017	<0.00102			<0.00102		
5/17/2017			<0.00102			
6/12/2017	<0.00102		<0.00102	<0.00102		
1/29/2018	<0.00102					
2/1/2018			<0.00102	<0.00102		
5/9/2018	<0.00102		<0.00102	<0.00102		
10/8/2018	<0.00102		<0.00102	<0.00102		
3/5/2019		<0.00102			<0.00102	
4/23/2019			<0.00102	<0.00102		
4/29/2019	<0.00102					
8/27/2019	<0.00102	<0.00102				
8/28/2019			<0.00102	<0.00102	0.00361 (J)	
3/2/2020			<0.00102			
3/3/2020				<0.00102	<0.00102	
3/4/2020	<0.00102	<0.00102				
10/14/2020	<0.00102	<0.00102				
10/19/2020					<0.00102	
10/20/2020				<0.00102		<0.00102
10/21/2020			<0.00102			
4/26/2021	<0.00102	<0.00102				
4/27/2021						<0.00102
4/28/2021				<0.00102	0.00026 (J)	
5/3/2021			<0.00102			
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						<0.00102
3/14/2022			<0.00102			
3/15/2022	<0.00102	0.00032 (J)				
3/16/2022				0.00023 (J)	0.00022 (J)	

# Time Series

Constituent: Chromium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	MR-AP-MW-7SR	MR-AP-MW-9DR	MR-AP-MW-9SR	MR-AP-PZ-5
7/26/2016				<0.00102
9/28/2016				<0.00102
11/2/2016				<0.00102
1/12/2017				<0.00102
2/13/2017				<0.00102
4/3/2017				<0.00102
5/17/2017				<0.00102
6/12/2017				<0.00102
2/1/2018				<0.00102
5/9/2018				<0.00102
10/8/2018				<0.00102
4/23/2019				<0.00102
8/29/2019				<0.00102
3/2/2020				<0.00102
10/15/2020		<0.00102	<0.00102	
10/20/2020	<0.00102			
10/21/2020				<0.00102
4/27/2021	0.000219 (J)	0.000284 (J)	0.000204 (J)	
5/3/2021				<0.00102
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)

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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	0.00273 (J)	<0.0002
8/2/2016	<0.0002					
8/3/2016			0.0026 (J)			
9/20/2016	<0.0002					
9/21/2016			0.00362 (J)			
9/26/2016				<0.0002		
9/27/2016					0.00263 (J)	<0.0002
10/25/2016	<0.0002		0.00305 (J)			
10/31/2016					0.00289 (J)	
11/1/2016						<0.0002
11/2/2016				<0.0002		
12/13/2016	<0.0002		<0.0002			
1/11/2017				<0.0002	0.00244 (J)	
1/12/2017						0.00316 (J)
2/6/2017			0.00308 (J)			
2/8/2017	<0.0002					
2/13/2017				<0.0002		0.00227 (J)
2/14/2017					0.00209 (J)	
3/28/2017			<0.0002			
3/29/2017	<0.0002					
4/3/2017				<0.0002		
4/4/2017						<0.0002
4/6/2017					0.00226 (J)	
4/24/2017			<0.0002			
4/26/2017	<0.0002					
5/15/2017				<0.0002		
5/16/2017						<0.0002
5/17/2017					0.0021 (J)	
6/7/2017	<0.0002		<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	<0.0002					
5/8/2018						<0.0002
5/9/2018				<0.0002		
5/10/2018					<0.0002	
5/15/2018	<0.0002		<0.0002			
10/8/2018					<0.0002	
10/9/2018				<0.0002		<0.0002
10/16/2018			<0.0002			
10/17/2018	<0.0002					
2/20/2019		<0.0002				
4/16/2019	<0.0002		<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	0.00234 (J)			
3/3/2020						<0.0002

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots  
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		0.000384			
4/20/2021				0.000113 (J)		
4/21/2021						<0.0002
5/3/2021					0.0003	
8/2/2021	<0.0002					
8/10/2021			0.00059			
9/8/2021				8E-05 (J)		
9/14/2021						<0.0002
9/15/2021					0.0003	
2/14/2022	<0.0002					
2/16/2022			0.00055			
3/15/2022				0.00038		
3/16/2022						<0.0002
3/17/2022					0.00091	

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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	0.0507
7/20/2016	<0.0002					
9/26/2016					<0.0002	0.0389
9/27/2016	<0.0002					
10/31/2016					<0.0002	0.0152
11/1/2016	<0.0002					
1/9/2017					<0.0002	0.00298 (J)
1/11/2017	<0.0002					
2/14/2017					<0.0002	0.00507 (J)
2/15/2017	<0.0002					
4/3/2017						0.00228 (J)
4/4/2017	<0.0002				<0.0002	
5/15/2017	<0.0002					
5/16/2017					<0.0002	0.00418 (J)
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	<0.0002
5/8/2018	0.00211 (J)					
10/8/2018	<0.0002					
10/9/2018					<0.0002	<0.0002
4/24/2019					<0.0002	<0.0002
8/28/2019	<0.0002				0.0021 (J)	0.00216 (J)
3/3/2020						<0.0002
3/4/2020					<0.0002	
3/10/2020	<0.0002					
10/13/2020					<0.0002	0.00352 (J)
10/19/2020	<0.0002					
10/20/2020		<0.0002	0.0112	<0.0002		
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				<0.0002		
3/8/2022						0.00413
3/9/2022		0.00066	0.0824	<0.0002	0.00065	
3/17/2022	0.00116					



# Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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	<0.0002			<0.0002	<0.0002
5/1/2019				0.0642		
8/27/2019	<0.0002	<0.0002		0.0498		
9/3/2019					<0.0002	<0.0002
3/3/2020				0.0471		
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				0.0368		
4/20/2021			<0.0002			
4/26/2021				0.0358		
4/28/2021					0.000658	
5/3/2021						0.00089
5/5/2021	0.00342	<0.0002				
9/7/2021	<0.0002					
9/8/2021					0.00078	0.0008
9/13/2021			<0.0002			
9/14/2021		<0.0002		0.0515		
3/8/2022	<0.0002	<0.0002				
3/9/2022			<0.0002		0.00081	0.00083
3/16/2022				0.0444		

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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					0.000718
4/28/2021	0.000291					
5/5/2021				0.000185 (J)		
6/16/2021	<0.0002	<0.0002	<0.0002			0.00068
9/14/2021	0.00017 (J)	<0.0002				
9/15/2021		<0.0002	<0.0002	<0.0002	<0.0002	0.00042
3/15/2022					8E-05 (J)	
3/16/2022		<0.0002	<0.0002			0.00294
3/17/2022	8E-05 (J)	<0.0002				

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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			<0.0002		<0.0002	
10/14/2020						0.0121
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		0.000397				
4/21/2021			<0.0002			
4/27/2021				<0.0002		
4/28/2021					0.000134 (J)	
5/3/2021	<0.0002					0.0112
9/8/2021						0.0123
9/13/2021		0.00027	<0.0002	<0.0002		
9/14/2021	<0.0002				<0.0002	
3/9/2022					7E-05 (J)	
3/14/2022	<0.0002	0.00025				0.0105
3/16/2022			<0.0002	<0.0002		

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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	<0.0002			<0.0002		
3/10/2020		<0.0002				
10/13/2020		<0.0002			0.00555	<0.0002
10/19/2020				<0.0002		
10/21/2020	<0.0002					
10/27/2020			<0.0002			
4/21/2021	<0.0002		0.000116 (J)			
5/3/2021				<0.0002		
5/5/2021		<0.0002			0.00451	<0.0002
9/7/2021		<0.0002			0.00455	<0.0002
9/13/2021	<0.0002		9E-05 (J)			
9/15/2021				<0.0002		
3/8/2022		8E-05 (J)				
3/9/2022	<0.0002					
3/16/2022			0.00014 (J)		0.00378	<0.0002
3/17/2022				<0.0002		

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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			<0.0002	0.0648		
9/27/2016	0.0401					
9/28/2016			<0.0002	0.0673		
11/1/2016	0.0374			0.0605		
11/2/2016			<0.0002			
1/9/2017	0.0291			0.0504		
1/10/2017			<0.0002			
2/13/2017	0.0368			0.065		
2/14/2017			<0.0002			
4/3/2017			<0.0002	0.0701		
4/4/2017	0.0348					
5/16/2017	0.0379			0.0725		
5/17/2017			<0.0002			
6/12/2017	0.0376		<0.0002	0.0656		
1/29/2018	0.0171					
2/1/2018			<0.0002	0.0564		
5/9/2018	0.0128		<0.0002	0.0641		
10/8/2018	0.011		<0.0002	0.0616		
3/5/2019		0.00889			<0.0002	
4/23/2019			<0.0002	0.0471		
4/29/2019	0.0206					
8/27/2019	0.0157	0.0104				
8/28/2019			<0.0002	0.0283	<0.0002	
3/2/2020			<0.0002			
3/3/2020				0.0186	<0.0002	
3/4/2020	0.0119	0.00216 (J)				
10/14/2020	0.0117	0.00364 (J)				
10/19/2020					<0.0002	
10/20/2020				0.00675		<0.0002
10/21/2020			<0.0002			
4/26/2021	0.00667	0.00507				
4/27/2021						<0.0002
4/28/2021				0.00574	0.000466	
5/3/2021			<0.0002			
9/1/2021	0.00719	0.00741		0.00456		<0.0002
9/8/2021			<0.0002		0.00022	
3/8/2022						<0.0002
3/14/2022			<0.0002			
3/15/2022	0.0039	0.013				
3/16/2022				0.00531	0.00021	

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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	0.000826	0.000206	0.000331	
5/3/2021				<0.0002
9/1/2021	0.00078	0.00011 (J)	0.00016 (J)	
9/8/2021				<0.0002
3/8/2022	0.00067	0.00013 (J)	0.00022	
3/14/2022				<0.0002

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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 5/17/2022 5:13 PM View: Time Series and Box Plots

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)	



# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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)					

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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)		

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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				

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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)		

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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)		

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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)	

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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)

# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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				<0.125	0.21 (J)	
1/12/2017						<0.125
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 5/17/2022 5:13 PM View: Time Series and Box Plots

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	

# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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	<0.125
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					

# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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				<0.125		
1/11/2017				<0.125		
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		

# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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)				

# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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		

# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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		

# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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	

# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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



# Time Series

Constituent: Lead (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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	<0.0002					
8/3/2016			<0.0002			
9/20/2016	<0.0002					
9/21/2016			<0.0002			
9/26/2016				<0.0002		
9/27/2016					<0.0002	<0.0002
10/25/2016	<0.0002		<0.0002			
10/31/2016					<0.0002	
11/1/2016						<0.0002
11/2/2016				<0.0002		
12/13/2016	<0.0002		<0.0002			
1/11/2017				<0.0002	<0.0002	
1/12/2017						<0.0002
2/6/2017			<0.0002			
2/8/2017	<0.0002					
2/13/2017				<0.0002		<0.0002
2/14/2017					<0.0002	
3/28/2017			<0.0002			
3/29/2017	<0.0002					
4/3/2017				<0.0002		
4/4/2017						<0.0002
4/6/2017					<0.0002	
4/24/2017			<0.0002			
4/26/2017	<0.0002					
5/15/2017				<0.0002		
5/16/2017						<0.0002
5/17/2017					<0.0002	
6/7/2017	<0.0002		<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	<0.0002					
5/8/2018						<0.0002
5/9/2018				<0.0002		
5/10/2018					<0.0002	
5/15/2018	<0.0002		<0.0002			
10/8/2018					<0.0002	
10/9/2018				<0.0002		<0.0002
10/16/2018			<0.0002			
10/17/2018	<0.0002					
2/20/2019		0.00189 (J)				
4/16/2019	<0.0002		<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: Lead (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots  
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		8.09E-05 (J)			
4/20/2021				<0.0002		
4/21/2021						<0.0002
5/3/2021					<0.0002	
8/2/2021	<0.0002					
8/10/2021			0.00015 (J)			
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	

# Time Series

Constituent: Lead (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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	<0.0002
1/11/2017	<0.0002					
2/14/2017					<0.0002	<0.0002
2/15/2017	<0.0002					
4/3/2017						<0.0002
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	<0.0002
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	<0.0002	<0.0002		
4/21/2021		0.000121 (J)	<0.0002	<0.0002		<0.0002
4/26/2021					<0.0002	
5/5/2021	<0.0002					
9/1/2021					<0.0002	<0.0002
9/7/2021	<0.0002	<0.0002	<0.0002			
9/13/2021				<0.0002		
3/8/2022						<0.0002
3/9/2022		<0.0002	0.00011 (J)	<0.0002	<0.0002	
3/17/2022	<0.0002					

# Time Series

Constituent: Lead (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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				<0.0002		
11/1/2016				<0.0002		
1/11/2017				<0.0002		
2/14/2017				<0.0002		
4/4/2017				<0.0002		
5/16/2017				<0.0002		
6/14/2017				<0.0002		
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			0.0023 (J)			
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	0.00116	<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		

# Time Series

Constituent: Lead (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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	0.000323					
5/5/2021				0.00019 (J)		
6/16/2021		7E-05 (J)	<0.0002	<0.0002		<0.0002
9/14/2021	0.0002 (J)	<0.0002				
9/15/2021			<0.0002	<0.0002	<0.0002	<0.0002
3/15/2022					<0.0002	
3/16/2022			<0.0002	<0.0002		<0.0002
3/17/2022	<0.0002	<0.0002				

# Time Series

Constituent: Lead (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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	0.000258					6.88E-05 (J)
9/8/2021						0.0001 (J)
9/13/2021		<0.0002	<0.0002	<0.0002		
9/14/2021	<0.0002				<0.0002	
3/9/2022					<0.0002	
3/14/2022	0.0001 (J)	<0.0002				<0.0002
3/16/2022			<0.0002	<0.0002		

# Time Series

Constituent: Lead (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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			8.4E-05 (J)	<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		

# Time Series

Constituent: Lead (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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	<0.0002	<0.0002				
3/16/2022				<0.0002	<0.0002	



# Time Series

Constituent: Lead (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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

# Time Series

Constituent: Lithium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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 5/17/2022 5:13 PM View: Time Series and Box Plots  
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	

# Time Series

Constituent: Lithium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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					<0.02	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					

# Time Series

Constituent: Lithium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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		

# Time Series

Constituent: Lithium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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				

# Time Series

Constituent: Lithium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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		

# Time Series

Constituent: Lithium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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		



# Time Series

Constituent: Lithium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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	

# Time Series

Constituent: Lithium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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

# Time Series

Constituent: Mercury (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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 5/17/2022 5:13 PM View: Time Series and Box Plots  
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	

# Time Series

Constituent: Mercury (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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					

# Time Series

Constituent: Mercury (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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		

# Time Series

Constituent: Mercury (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	MR-AP-MW-21 (bg)	MR-AP-MW-22D ...	MR-AP-MW-22I ...	MR-AP-MW-22S ...	MR-AP-MW-23 (bg)	MR-AP-MW-23A ...
3/6/2019	<0.0005					
8/28/2019	<0.0005					
3/9/2020	<0.0005			<0.0005		
10/13/2020	<0.0005					
10/14/2020			<0.0005	<0.0005	<0.0005	
10/20/2020		<0.0005				
10/26/2020	<0.0005					
4/20/2021		<0.0005	<0.0005			
4/27/2021	<0.0005					<0.0005
4/28/2021	<0.0005					
5/5/2021				<0.0005		
6/16/2021	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
9/14/2021	<0.0005	<0.0005				
9/15/2021			<0.0005	<0.0005	<0.0005	<0.0005
3/15/2022					<0.0005	
3/16/2022			<0.0005	<0.0005		<0.0005
3/17/2022	<0.0005	<0.0005				

# Time Series

Constituent: Mercury (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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		



# Time Series

Constituent: Mercury (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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		

# Time Series

Constituent: Mercury (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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	

# Time Series

Constituent: Mercury (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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	<0.0002
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	<0.0002
10/25/2016	0.01		0.01			
10/31/2016					0.0971	
11/1/2016						<0.0002
11/2/2016				0.0107		
12/13/2016	0.01		0.01			
1/11/2017				0.0101	0.0866	
1/12/2017						<0.0002
2/6/2017			0.01			
2/8/2017	0.01					
2/13/2017				0.00994 (J)		<0.0002
2/14/2017					0.0895	
3/28/2017			0.01			
3/29/2017	0.01					
4/3/2017				0.00788 (J)		
4/4/2017						<0.0002
4/6/2017					0.0812	
4/24/2017			0.01			
4/26/2017	0.01					
5/15/2017				0.00866 (J)		
5/16/2017						<0.0002
5/17/2017					0.0741	
6/7/2017	<0.0002		<0.0002			
6/13/2017					0.0719	
6/14/2017				0.00779 (J)		<0.0002
1/31/2018					0.0943	
2/1/2018				0.0109		<0.0002
2/19/2018			<0.0002			
2/20/2018	<0.0002					
5/8/2018						<0.0002
5/9/2018				0.00618 (J)		
5/10/2018					0.069	
5/15/2018	<0.0002		<0.0002			
10/8/2018					0.0951	
10/9/2018				0.00745 (J)		<0.0002
10/16/2018			<0.0002			
10/17/2018	<0.0002					
2/20/2019		0.00577 (J)				
4/16/2019	<0.0002		<0.0002			
4/24/2019					0.121	
5/1/2019				0.00932 (J)		<0.0002
8/27/2019				0.00563 (J)		
8/28/2019						<0.0002
8/29/2019					0.158	
9/24/2019		0.00906 (J)	<0.0002			
3/3/2020						<0.0002

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots  
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			<0.0002			
3/25/2020		0.00508 (J)				
9/21/2020			<0.0002			
9/23/2020		0.00664 (J)				
10/19/2020				0.0116	0.305	
10/20/2020						<0.0002
2/2/2021		0.00252	<0.0002			
4/20/2021				0.0072		
4/21/2021						0.000741
5/3/2021					0.296	
8/2/2021		0.00206				
8/10/2021			<0.0002			
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	

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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	0.0204
7/20/2016	0.0267					
9/26/2016					<0.0002	0.00799 (J)
9/27/2016	0.0362					
10/31/2016					<0.0002	0.0458
11/1/2016	0.0329					
1/9/2017					<0.0002	0.00431 (J)
1/11/2017	0.0322					
2/14/2017					<0.0002	0.0255
2/15/2017	0.0374					
4/3/2017						0.0119
4/4/2017	0.036				<0.0002	
5/15/2017	0.0365					
5/16/2017					<0.0002	0.00405 (J)
6/12/2017					<0.0002	0.0216
6/14/2017	0.0368					
1/30/2018	0.113					
1/31/2018					<0.0002	
2/1/2018						0.00829 (J)
5/7/2018					<0.0002	0.0256
5/8/2018	0.119					
10/8/2018	0.31					
10/9/2018					<0.0002	0.0114
4/24/2019					<0.0002	0.0148
8/28/2019	0.646				<0.0002	0.107
3/3/2020						0.025
3/4/2020					<0.0002	
3/10/2020	0.49					
10/13/2020					<0.0002	0.0494
10/19/2020	0.858					
10/20/2020		0.00206 (J)	0.00311 (J)	<0.0002		
4/21/2021		0.00592	0.00029	0.000157 (J)		0.0515
4/26/2021					<0.0002	
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					

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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				<0.0002		
11/1/2016				<0.0002		
1/11/2017				<0.0002		
2/14/2017				<0.0002		
4/4/2017				<0.0002		
5/16/2017				<0.0002		
6/14/2017				<0.0002		
2/1/2018				<0.0002		
5/9/2018				<0.0002		
10/9/2018				<0.0002		
3/6/2019	<0.0002	0.00498 (J)			0.0391	<0.0002
5/1/2019				<0.0002		
8/27/2019	<0.0002	0.0131		<0.0002		
9/3/2019					0.055	<0.0002
3/3/2020				<0.0002		
3/9/2020			<0.0002			
3/10/2020	<0.0002	0.00972 (J)			0.0593	<0.0002
10/13/2020	<0.0002	0.00832 (J)				
10/14/2020			<0.0002			
10/19/2020					0.0683	<0.0002
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	<0.0002					
9/8/2021					0.0609	0.00039
9/13/2021			0.00058			
9/14/2021		0.00851		0.0021		
3/8/2022	<0.0002	0.0104				
3/9/2022			0.00363		0.0621	0.00037
3/16/2022				0.00207		

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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	<0.0002			0.005 (J)		
10/13/2020	<0.0002					
10/14/2020			<0.0002	0.00351 (J)	<0.0002	
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				



# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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		<0.0002				
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	<0.0002					
10/27/2020				<0.0002		
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		

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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)			<0.0002		
3/10/2020		0.00217 (J)				
10/13/2020		<0.0002			0.0265	0.0517
10/19/2020				<0.0002		
10/21/2020	0.00201 (J)					
10/27/2020			0.0195			
4/21/2021	0.00534		0.0505			
5/3/2021				<0.0002		
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				<0.0002		

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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			0.0718	0.00707 (J)		
9/27/2016	<0.0002					
9/28/2016			0.0638	0.00623 (J)		
11/1/2016	<0.0002			0.0059 (J)		
11/2/2016			0.0665			
1/9/2017	<0.0002			0.00476 (J)		
1/10/2017			0.067			
2/13/2017	<0.0002			0.00615 (J)		
2/14/2017			0.0735			
4/3/2017			0.0719	0.00623 (J)		
4/4/2017	<0.0002					
5/16/2017	<0.0002			0.00662 (J)		
5/17/2017			0.0733			
6/12/2017	<0.0002		0.0655	0.00613 (J)		
1/29/2018	<0.0002					
2/1/2018			0.076	0.00656 (J)		
5/9/2018	<0.0002		0.061	0.00525 (J)		
10/8/2018	<0.0002		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	<0.0002					
8/27/2019	<0.0002	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	<0.0002	<0.0002				
10/14/2020	<0.0002	<0.0002				
10/19/2020					0.00562 (J)	
10/20/2020				<0.0002		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	

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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				<0.0002
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	0.00213 (J)	
10/20/2020	0.0356			
10/21/2020				<0.0002
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

# Time Series

Constituent: pH, Field (pH) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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 5/17/2022 5:13 PM View: Time Series and Box Plots

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	

# Time Series

Constituent: pH, Field (pH) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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					

# Time Series

Constituent: pH, Field (pH) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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		



# Time Series

Constituent: pH, Field (pH) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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				

# Time Series

Constituent: pH, Field (pH) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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		

# Time Series

Constituent: pH, Field (pH) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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		

# Time Series

Constituent: pH, Field (pH) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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	

# Time Series

Constituent: pH, Field (pH) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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

# Time Series

Constituent: Selenium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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	<0.00102	<0.00102
8/2/2016	0.01					
8/3/2016			0.01			
9/20/2016	0.01					
9/21/2016			0.01			
9/26/2016				<0.00102		
9/27/2016					<0.00102	<0.00102
10/25/2016	0.01		0.01			
10/31/2016					<0.00102	
11/1/2016						<0.00102
11/2/2016				<0.00102		
12/13/2016	0.01		0.01			
1/11/2017				<0.00102	<0.00102	
1/12/2017						<0.00102
2/6/2017			0.01			
2/8/2017	0.01					
2/13/2017				<0.00102		<0.00102
2/14/2017					<0.00102	
3/28/2017			0.01			
3/29/2017	0.01					
4/3/2017				<0.00102		
4/4/2017						<0.00102
4/6/2017					<0.00102	
4/24/2017			0.01			
4/26/2017	0.01					
5/15/2017				<0.00102		
5/16/2017						<0.00102
5/17/2017					<0.00102	
6/7/2017	<0.00102		<0.00102			
6/13/2017					<0.00102	
6/14/2017				<0.00102		<0.00102
1/31/2018					<0.00102	
2/1/2018				<0.00102		<0.00102
2/19/2018			<0.00102			
2/20/2018	<0.00102					
5/8/2018						<0.00102
5/9/2018				<0.00102		
5/10/2018					<0.00102	
5/15/2018	<0.00102		<0.00102			
10/8/2018					<0.00102	
10/9/2018				<0.00102		<0.00102
10/16/2018			<0.00102			
10/17/2018	<0.00102					
2/20/2019		<0.00102				
4/16/2019	<0.00102		<0.00102			
4/24/2019					<0.00102	
5/1/2019				<0.00102		<0.00102
8/27/2019				<0.00102		
8/28/2019						<0.00102
8/29/2019					<0.00102	
9/24/2019		<0.00102	<0.00102			
3/3/2020						<0.00102

# Time Series

Constituent: Selenium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots  
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	<0.00102	
3/18/2020			<0.00102			
3/25/2020	<0.00102					
9/21/2020			<0.00102			
9/23/2020	<0.00102					
10/19/2020				<0.00102	<0.00102	
10/20/2020						<0.00102
2/2/2021	<0.00102		<0.00102			
4/20/2021				<0.00102		
4/21/2021						<0.00102
5/3/2021					<0.00102	
8/2/2021	<0.00102					
8/10/2021			<0.00102			
9/8/2021				<0.00102		
9/14/2021						<0.00102
9/15/2021					<0.00102	
2/14/2022	<0.00102					
2/16/2022			<0.00102			
3/15/2022				<0.00102		
3/16/2022						<0.00102
3/17/2022				<0.00102		

# Time Series

Constituent: Selenium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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					<0.00102	<0.00102
7/20/2016	<0.00102					
9/26/2016					<0.00102	0.00341 (J)
9/27/2016	<0.00102					
10/31/2016					<0.00102	<0.00102
11/1/2016	<0.00102					
1/9/2017					<0.00102	0.00273 (J)
1/11/2017	<0.00102					
2/14/2017					<0.00102	0.00281 (J)
2/15/2017	<0.00102					
4/3/2017						0.00262 (J)
4/4/2017	<0.00102				<0.00102	
5/15/2017	<0.00102					
5/16/2017					<0.00102	<0.00102
6/12/2017					<0.00102	<0.00102
6/14/2017	<0.00102					
1/30/2018	<0.00102					
1/31/2018					<0.00102	
2/1/2018						<0.00102
5/7/2018					<0.00102	0.00204 (J)
5/8/2018	<0.00102					
10/8/2018	<0.00102					
10/9/2018					<0.00102	<0.00102
4/24/2019					<0.00102	<0.00102
8/28/2019	<0.00102				<0.00102	<0.00102
3/3/2020						0.00271 (J)
3/4/2020					<0.00102	
3/10/2020	<0.00102					
10/13/2020					<0.00102	0.00351 (J)
10/19/2020	<0.00102					
10/20/2020		<0.00102	<0.00102	<0.00102		
4/21/2021		<0.00102	<0.00102	<0.00102		0.000975 (J)
4/26/2021					<0.00102	
5/5/2021	<0.00102					
9/1/2021					<0.00102	0.00629
9/7/2021	<0.00102	<0.00102	<0.00102			
9/13/2021				<0.00102		
3/8/2022						0.00171
3/9/2022		<0.00102	<0.00102	<0.00102	<0.00102	
3/17/2022	<0.00102					



# Time Series

Constituent: Selenium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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				<0.00102		
9/28/2016				<0.00102		
11/1/2016				<0.00102		
1/11/2017				<0.00102		
2/14/2017				<0.00102		
4/4/2017				<0.00102		
5/16/2017				<0.00102		
6/14/2017				<0.00102		
2/1/2018				<0.00102		
5/9/2018				<0.00102		
10/9/2018				<0.00102		
3/6/2019	<0.00102	<0.00102			<0.00102	<0.00102
5/1/2019				<0.00102		
8/27/2019	<0.00102	<0.00102		<0.00102		
9/3/2019					<0.00102	<0.00102
3/3/2020				<0.00102		
3/9/2020			0.00512 (J)			
3/10/2020	<0.00102	<0.00102			<0.00102	<0.00102
10/13/2020	<0.00102	<0.00102				
10/14/2020			<0.00102			
10/19/2020					<0.00102	<0.00102
10/21/2020				<0.00102		
4/20/2021			<0.00102			
4/26/2021				<0.00102		
4/28/2021					<0.00102	
5/3/2021						<0.00102
5/5/2021	<0.00102	<0.00102				
9/7/2021	<0.00102					
9/8/2021					<0.00102	<0.00102
9/13/2021			<0.00102			
9/14/2021		<0.00102		<0.00102		
3/8/2022	<0.00102	<0.00102				
3/9/2022			<0.00102		<0.00102	<0.00102
3/16/2022				<0.00102		

# Time Series

Constituent: Selenium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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	<0.00102					
8/28/2019	<0.00102					
3/9/2020	<0.00102			<0.00102		
10/13/2020	<0.00102					
10/14/2020			<0.00102	<0.00102	<0.00102	
10/20/2020		<0.00102				
10/26/2020	<0.00102					
4/20/2021		<0.00102	<0.00102			
4/27/2021	<0.00102					<0.00102
4/28/2021	<0.00102					
5/5/2021				<0.00102		
6/16/2021	<0.00102	<0.00102	<0.00102			<0.00102
9/14/2021	<0.00102	<0.00102				
9/15/2021		<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
3/15/2022				<0.00102		
3/16/2022		<0.00102	<0.00102			<0.00102
3/17/2022	<0.00102	<0.00102				

# Time Series

Constituent: Selenium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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						<0.00102
3/9/2020		<0.00102				
3/10/2020			0.00228 (J)		<0.00102	
10/14/2020						<0.00102
10/15/2020					<0.00102	
10/19/2020		<0.00102				
10/20/2020			<0.00102			
10/26/2020	<0.00102					
10/27/2020				<0.00102		
4/20/2021		<0.00102				
4/21/2021			<0.00102			
4/27/2021				<0.00102		
4/28/2021					<0.00102	
5/3/2021	<0.00102					<0.00102
9/8/2021						<0.00102
9/13/2021		<0.00102	<0.00102	<0.00102		
9/14/2021	<0.00102				<0.00102	
3/9/2022					<0.00102	
3/14/2022	<0.00102	<0.00102				<0.00102
3/16/2022			<0.00102	<0.00102		

# Time Series

Constituent: Selenium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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					<0.00102	<0.00102
9/26/2016					<0.00102	<0.00102
10/31/2016					<0.00102	<0.00102
1/9/2017					<0.00102	<0.00102
2/13/2017					<0.00102	<0.00102
4/3/2017					<0.00102	<0.00102
5/16/2017					<0.00102	<0.00102
6/12/2017					<0.00102	<0.00102
1/29/2018					<0.00102	<0.00102
5/10/2018					<0.00102	<0.00102
10/9/2018					<0.00102	<0.00102
4/22/2019						<0.00102
4/29/2019					<0.00102	
8/27/2019					<0.00102	<0.00102
3/3/2020					<0.00102	<0.00102
3/9/2020	0.0461			<0.00102		
3/10/2020		<0.00102				
10/13/2020		<0.00102			<0.00102	<0.00102
10/19/2020				<0.00102		
10/21/2020	<0.00102					
10/27/2020			<0.00102			
4/21/2021	<0.00102		<0.00102			
5/3/2021				<0.00102		
5/5/2021		<0.00102			<0.00102	<0.00102
9/7/2021		<0.00102			<0.00102	<0.00102
9/13/2021	<0.00102		<0.00102			
9/15/2021				<0.00102		
3/8/2022		<0.00102				
3/9/2022	<0.00102					
3/16/2022			<0.00102		<0.00102	<0.00102
3/17/2022				<0.00102		

# Time Series

Constituent: Selenium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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			<0.00102	<0.00102		
9/27/2016	0.0023 (J)					
9/28/2016			<0.00102	<0.00102		
11/1/2016	<0.00102			<0.00102		
11/2/2016			<0.00102			
1/9/2017	0.00278 (J)			<0.00102		
1/10/2017			<0.00102			
2/13/2017	0.00291 (J)			<0.00102		
2/14/2017			<0.00102			
4/3/2017			<0.00102	<0.00102		
4/4/2017	0.00343 (J)					
5/16/2017	0.003 (J)			<0.00102		
5/17/2017			<0.00102			
6/12/2017	0.00255 (J)		<0.00102	<0.00102		
1/29/2018	0.00273 (J)					
2/1/2018			<0.00102	<0.00102		
5/9/2018	<0.00102		<0.00102	<0.00102		
10/8/2018	<0.00102		<0.00102	<0.00102		
3/5/2019		<0.00102			<0.00102	
4/23/2019			<0.00102	<0.00102		
4/29/2019	<0.00102					
8/27/2019	<0.00102	<0.00102				
8/28/2019			<0.00102	<0.00102	<0.00102	
3/2/2020			<0.00102			
3/3/2020				<0.00102	<0.00102	
3/4/2020	<0.00102	<0.00102				
10/14/2020	<0.00102	<0.00102				
10/19/2020					<0.00102	
10/20/2020				<0.00102		<0.00102
10/21/2020			<0.00102			
4/26/2021	0.00112	<0.00102				
4/27/2021						<0.00102
4/28/2021				<0.00102	<0.00102	
5/3/2021			<0.00102			
9/1/2021	0.00077 (J)	<0.00102		<0.00102		<0.00102
9/8/2021			<0.00102		<0.00102	
3/8/2022						<0.00102
3/14/2022			<0.00102			
3/15/2022	<0.00102	<0.00102				
3/16/2022				<0.00102	<0.00102	

# Time Series

Constituent: Selenium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	MR-AP-MW-7SR	MR-AP-MW-9DR	MR-AP-MW-9SR	MR-AP-PZ-5
7/26/2016				<0.00102
9/28/2016				<0.00102
11/2/2016				<0.00102
1/12/2017				<0.00102
2/13/2017				<0.00102
4/3/2017				<0.00102
5/17/2017				<0.00102
6/12/2017				<0.00102
2/1/2018				<0.00102
5/9/2018				<0.00102
10/8/2018				<0.00102
4/23/2019				<0.00102
8/29/2019				<0.00102
3/2/2020				<0.00102
10/15/2020		<0.00102	<0.00102	
10/20/2020	<0.00102			
10/21/2020				<0.00102
4/27/2021	<0.00102	<0.00102	<0.00102	
5/3/2021				<0.00102
9/1/2021	<0.00102	<0.00102	<0.00102	
9/8/2021				<0.00102
3/8/2022	<0.00102	<0.00102	<0.00102	
3/14/2022				<0.00102

# Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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 5/17/2022 5:13 PM View: Time Series and Box Plots

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	



# Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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					

# Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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		

# Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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				

# Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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		

# Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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		

# Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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	

# Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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

# Time Series

Constituent: Thallium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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	<0.0002		<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	<0.0002					
5/8/2018						<0.0002
5/9/2018				<0.0002		
5/10/2018					<0.0002	
5/15/2018	<0.0002		<0.0002			
10/8/2018					<0.0002	
10/9/2018				<0.0002		<0.0002
10/16/2018			<0.0002			
10/17/2018	<0.0002					
2/20/2019		<0.0002				
4/16/2019	<0.0002		<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 5/17/2022 5:13 PM View: Time Series and Box Plots  
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	

# Time Series

Constituent: Thallium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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	<0.0002	<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					

# Time Series

Constituent: Thallium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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		

# Time Series

Constituent: Thallium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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
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
3/17/2022	<0.0002	<0.0002				

# Time Series

Constituent: Thallium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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		

# Time Series

Constituent: Thallium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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		

# Time Series

Constituent: Thallium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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	

# Time Series

Constituent: Thallium (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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



# Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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 5/17/2022 5:13 PM View: Time Series and Box Plots

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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	

# Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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					

# Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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		

# Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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				

# Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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		

# Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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		

# Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

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	



# Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/17/2022 5:13 PM View: Time Series and Box Plots

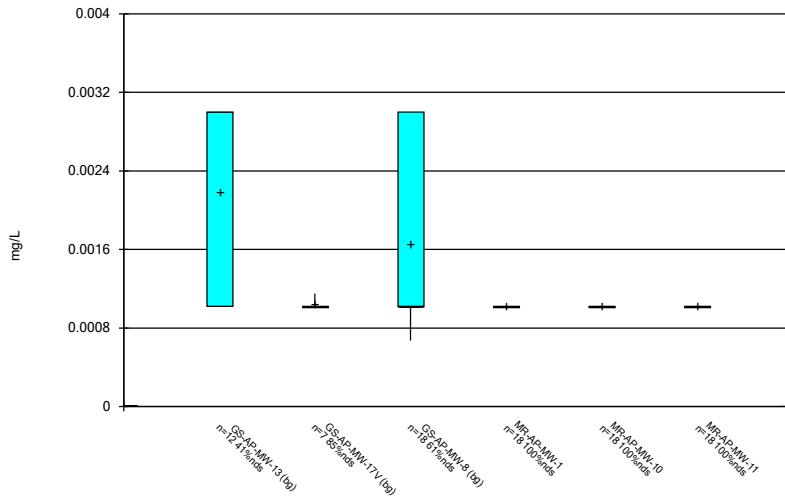
Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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

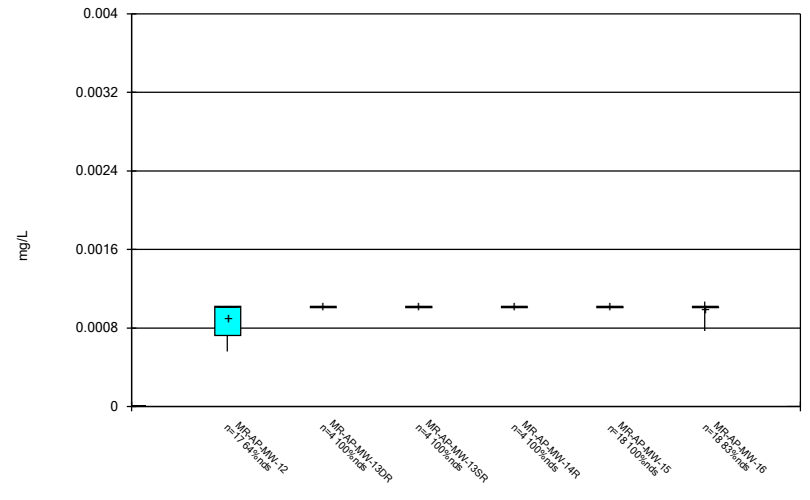
FIGURE B.

### Box & Whiskers Plot



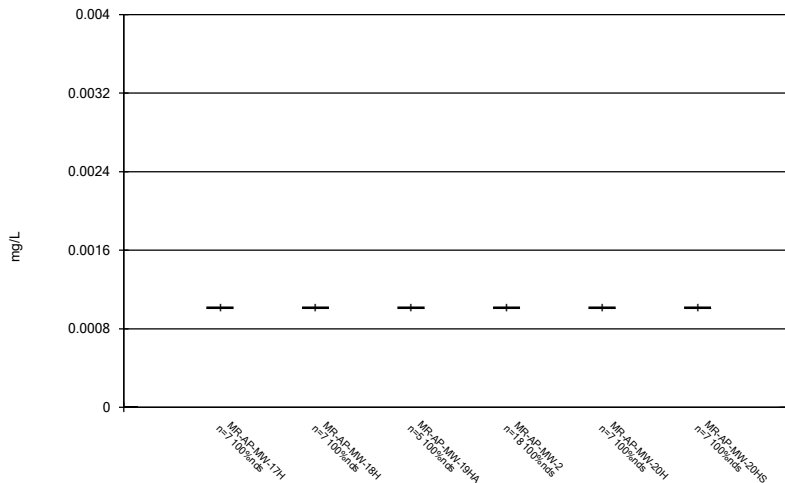
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Box & Whiskers Plot



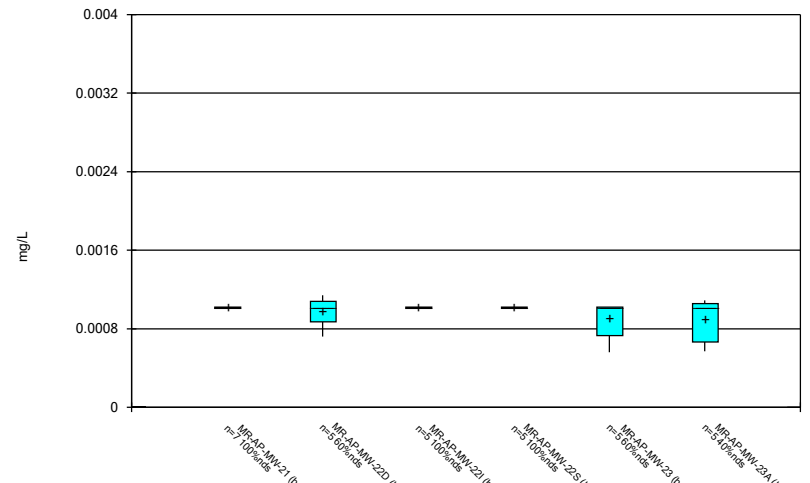
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Box & Whiskers Plot



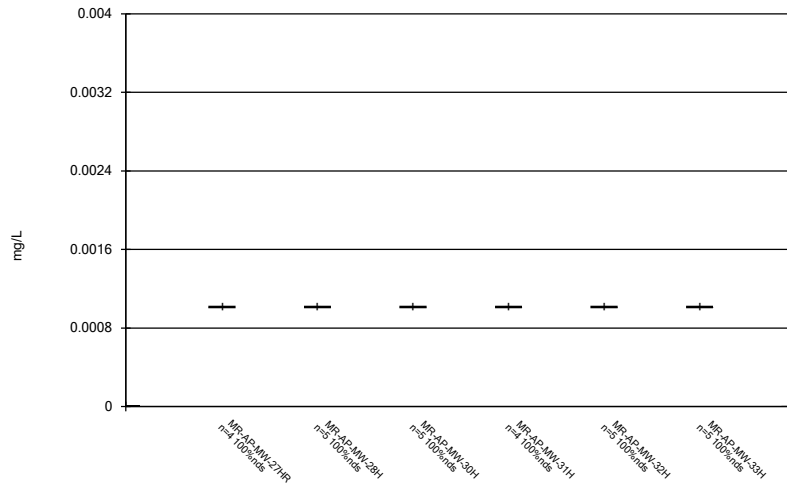
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### Box & Whiskers Plot



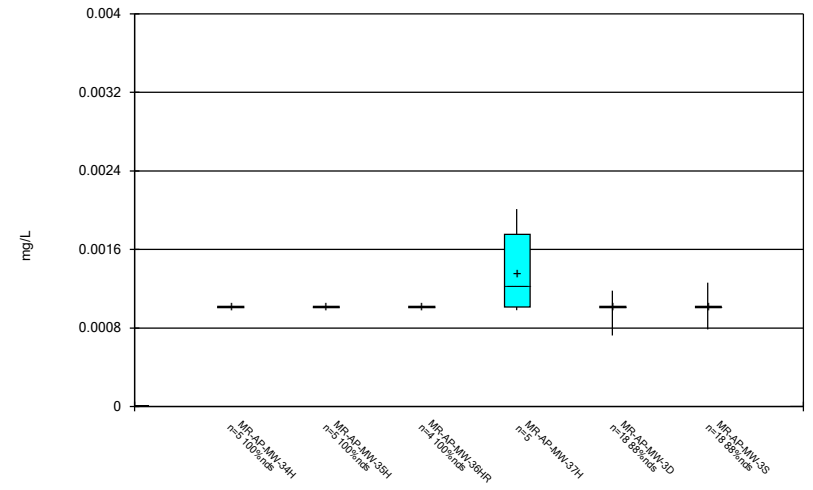
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Box & Whiskers Plot



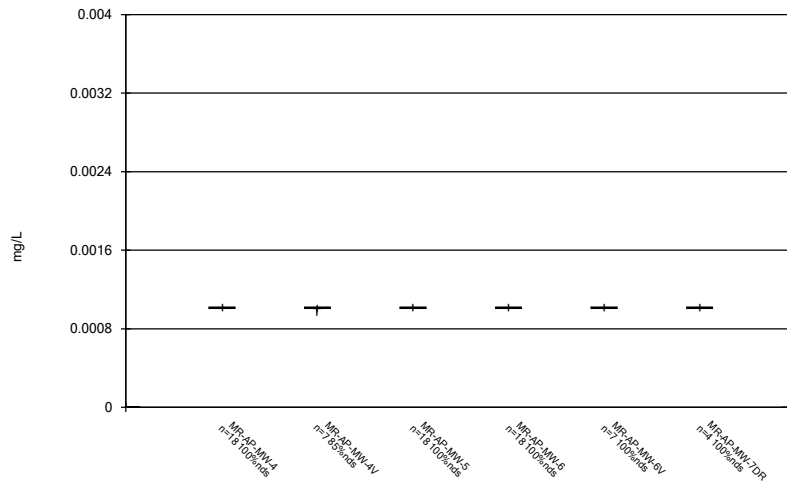
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



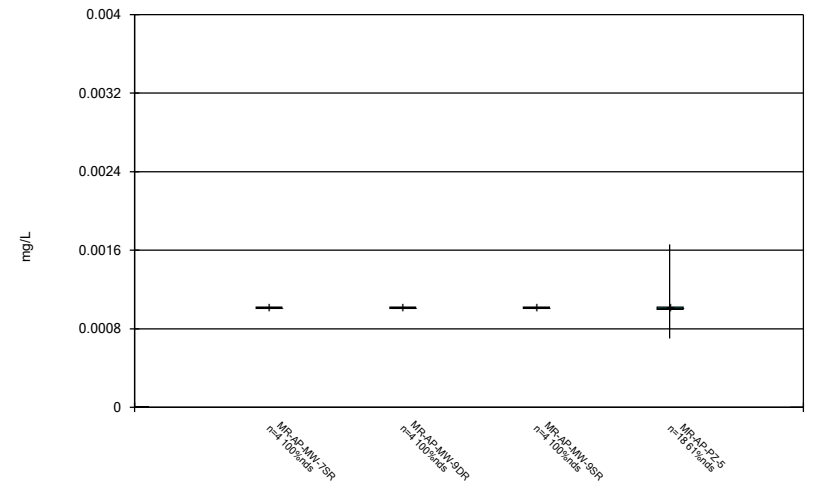
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



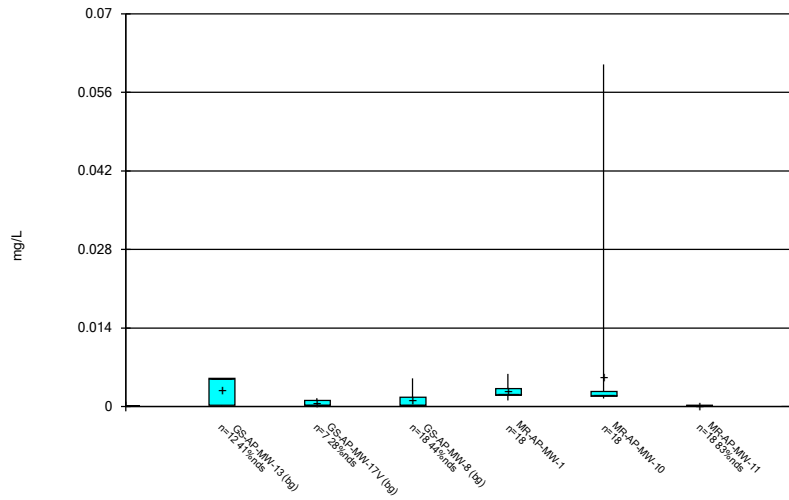
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



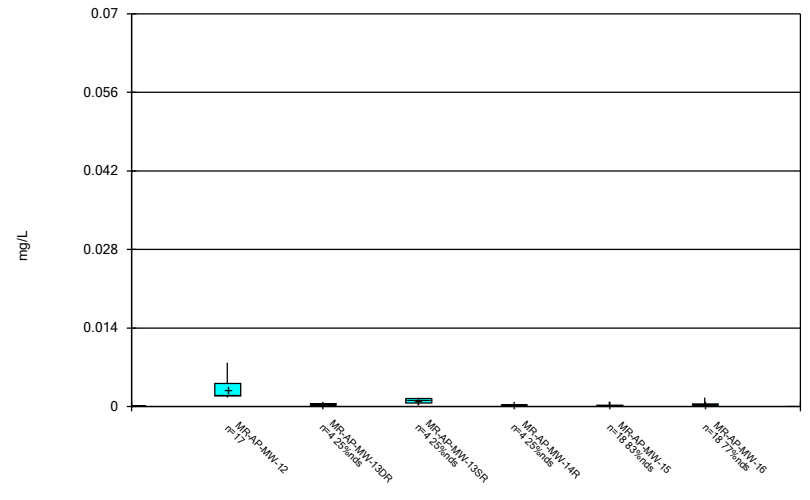
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Plant Miller Client: Southern Company Data: Miller Ash Pond

### Box & Whiskers Plot



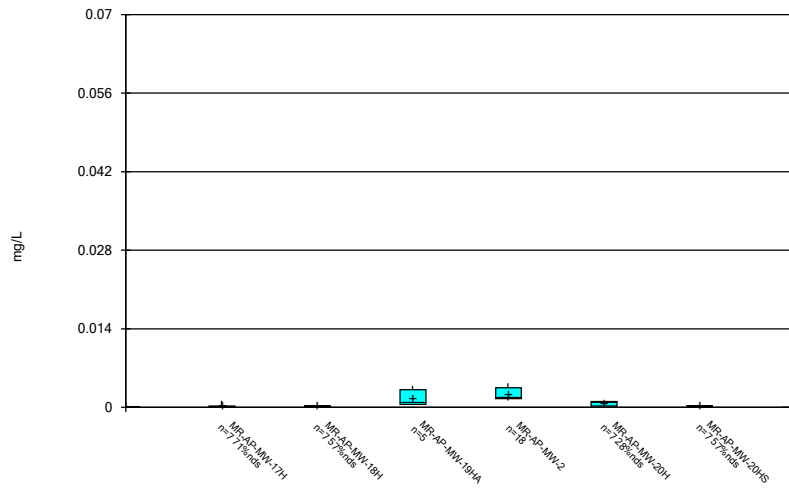
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Plant Miller Client: Southern Company Data: Miller Ash Pond

### Box & Whiskers Plot



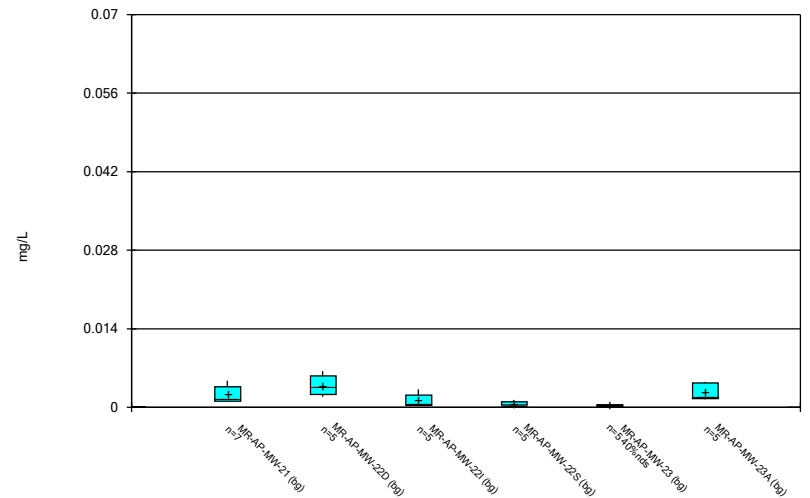
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Plant Miller Client: Southern Company Data: Miller Ash Pond

### Box & Whiskers Plot



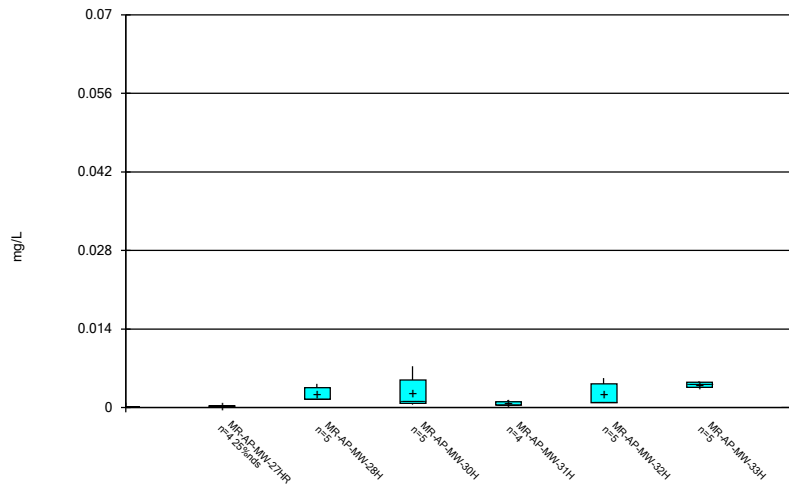
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Plant Miller Client: Southern Company Data: Miller Ash Pond

### Box & Whiskers Plot



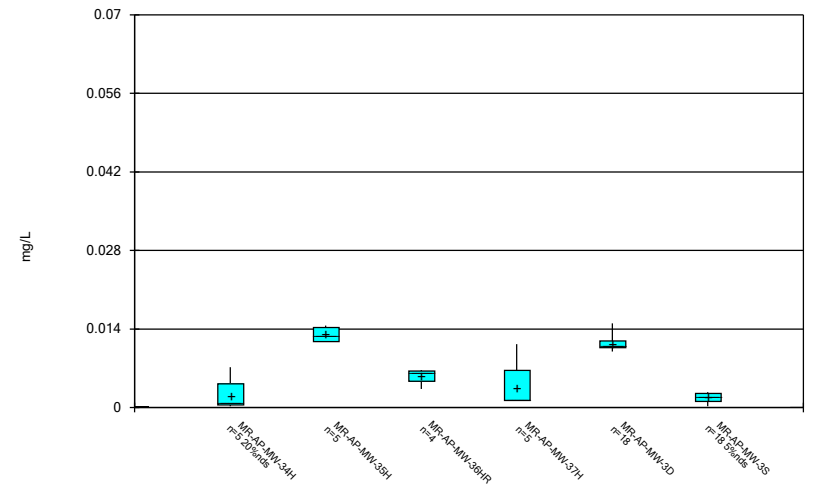
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### Box & Whiskers Plot



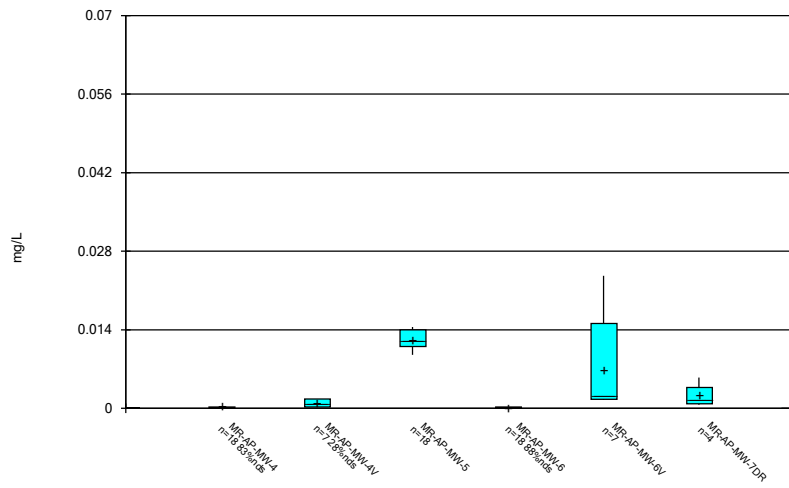
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### Box & Whiskers Plot



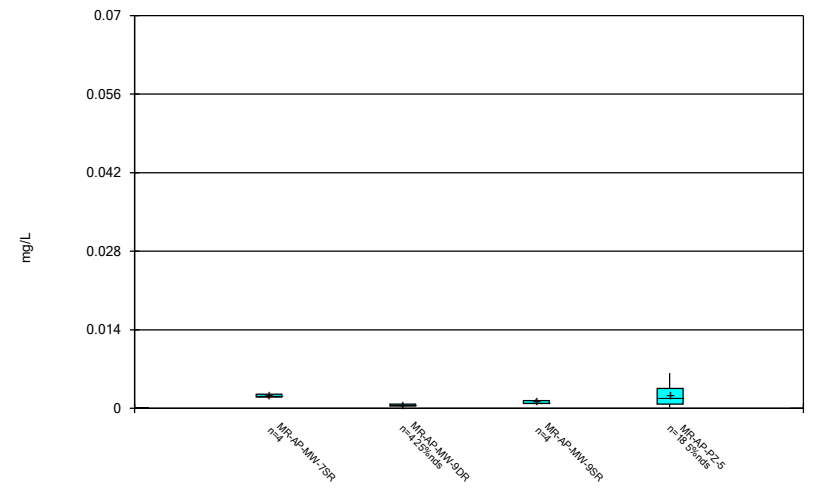
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### Box & Whiskers Plot



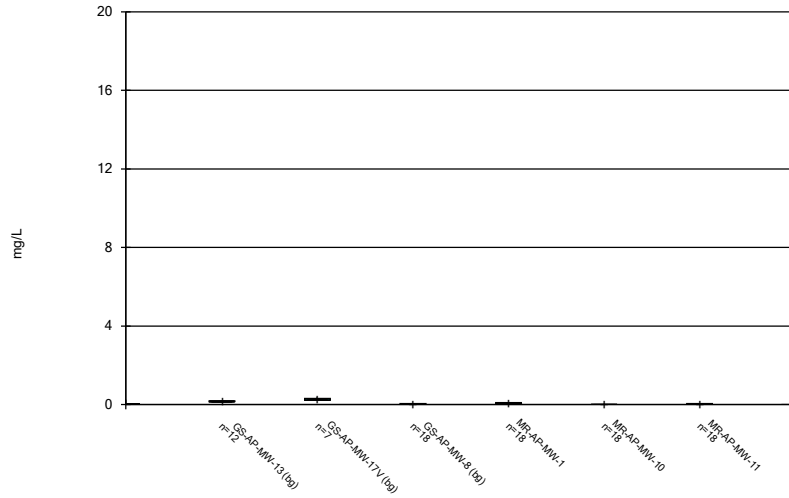
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### Box & Whiskers Plot



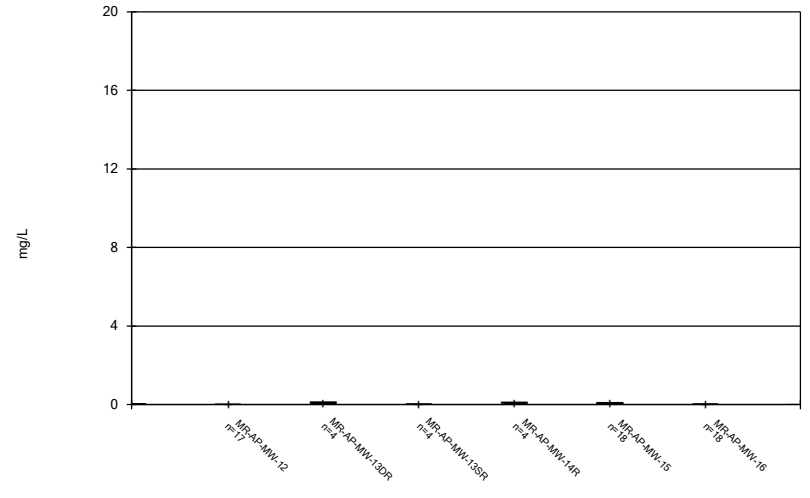
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Box & Whiskers Plot



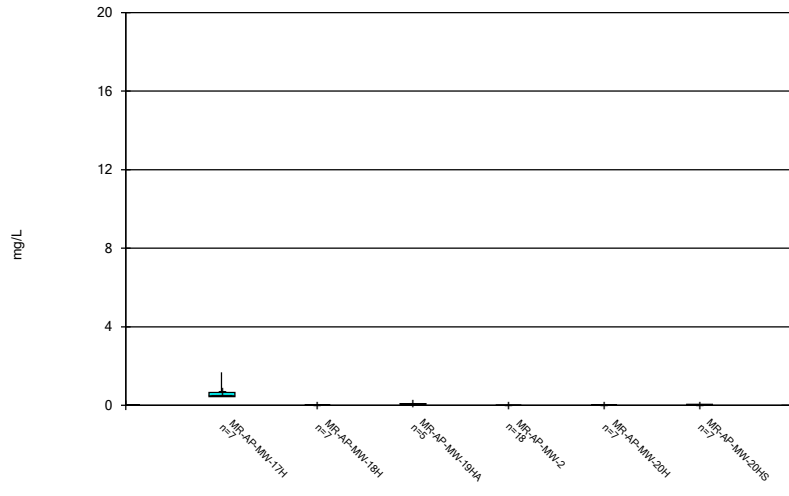
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Box & Whiskers Plot



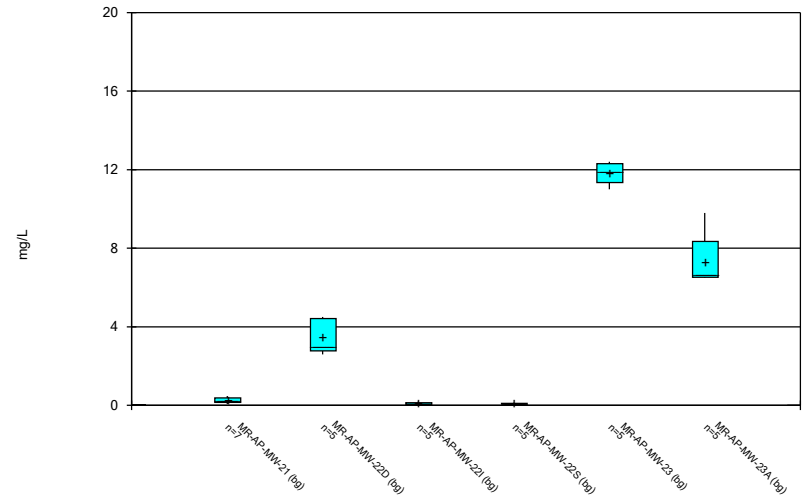
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Box & Whiskers Plot



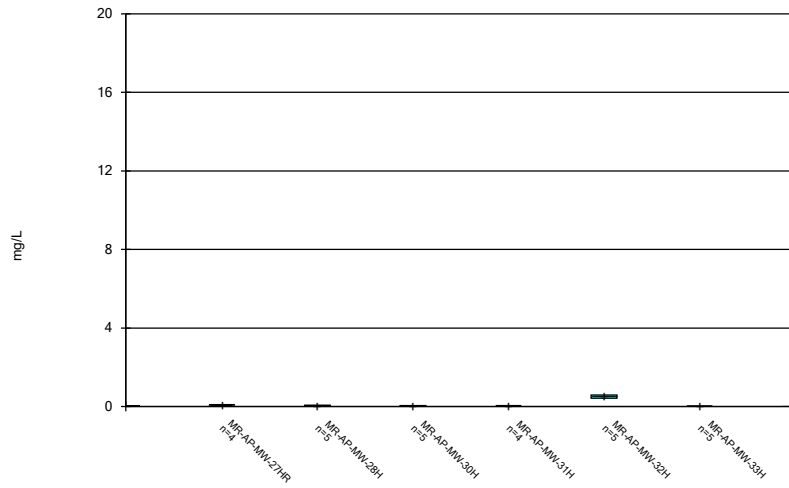
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Box & Whiskers Plot



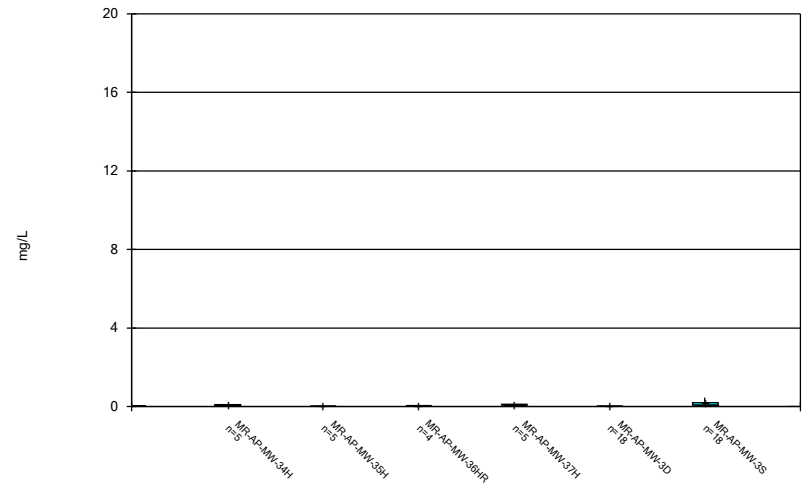
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### Box & Whiskers Plot



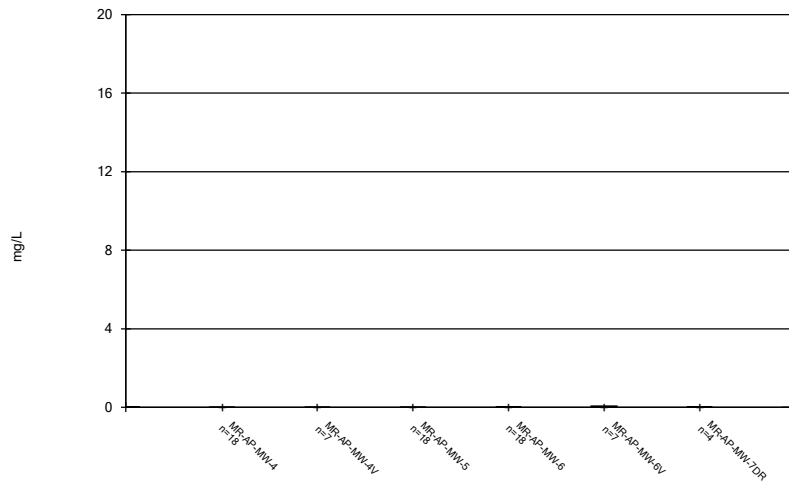
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### Box & Whiskers Plot



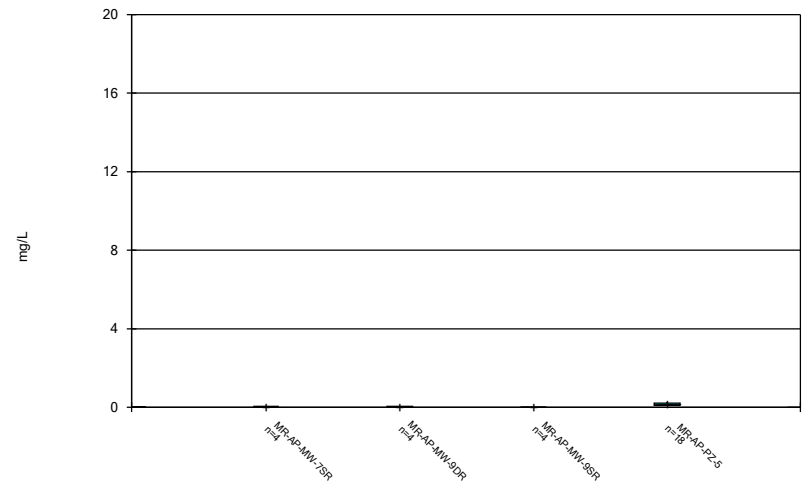
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### Box & Whiskers Plot



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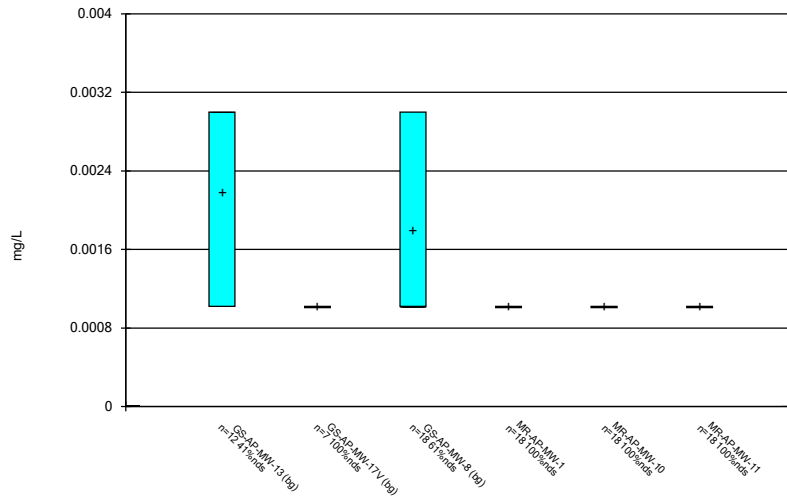
### Box & Whiskers Plot



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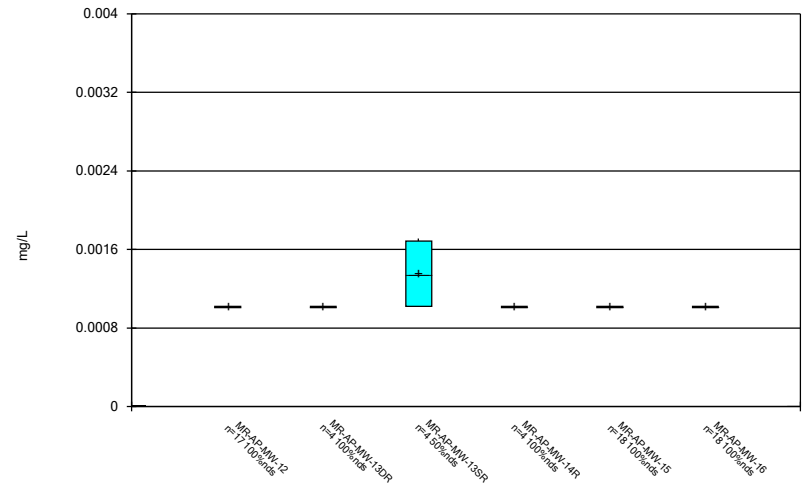


### Box & Whiskers Plot



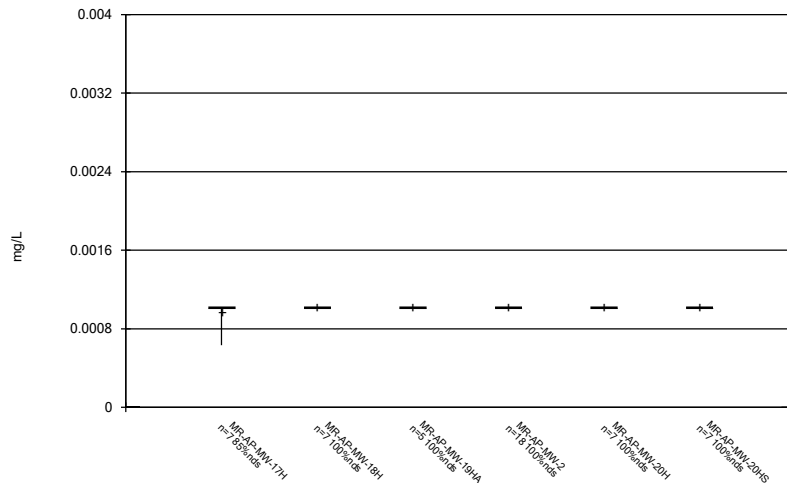
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### Box & Whiskers Plot



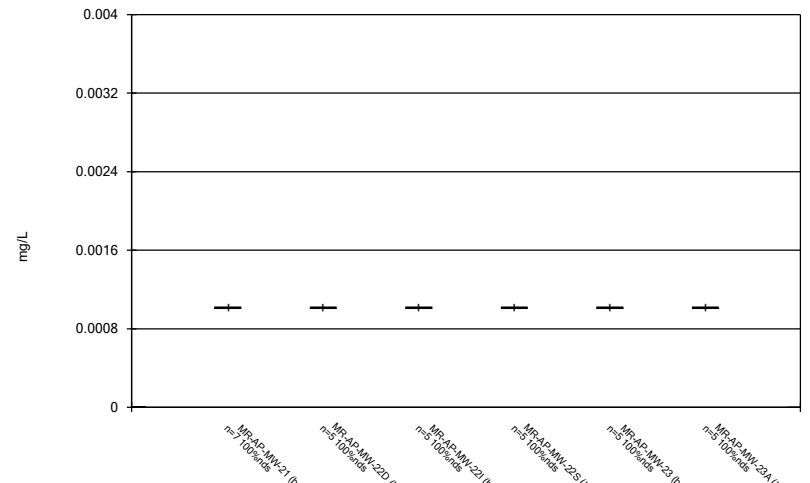
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### Box & Whiskers Plot



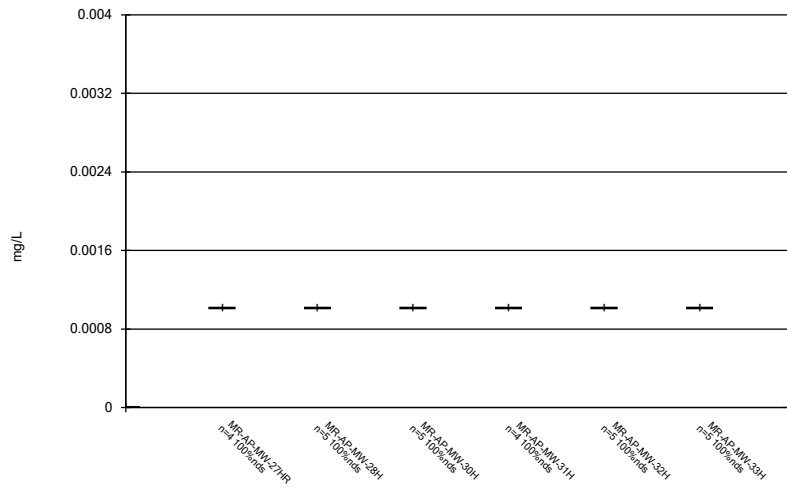
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### Box & Whiskers Plot



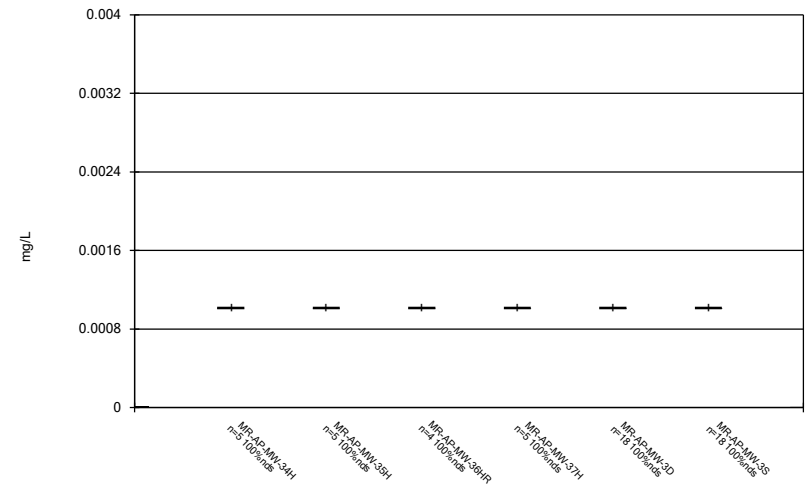
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### Box & Whiskers Plot



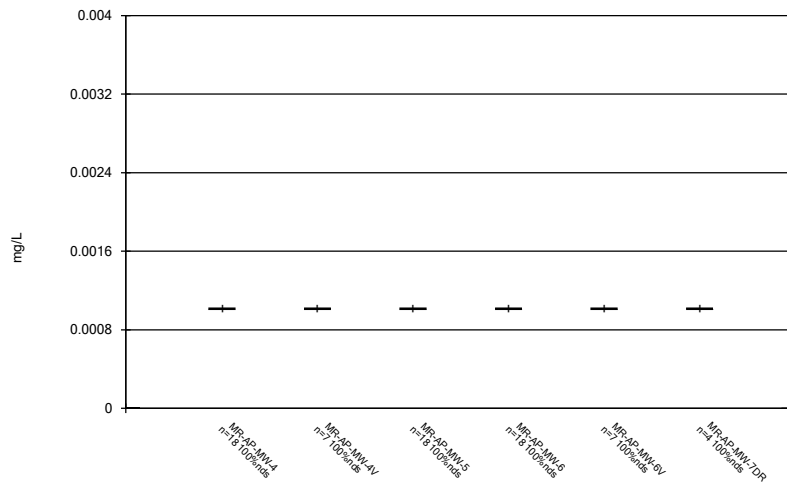
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### Box & Whiskers Plot



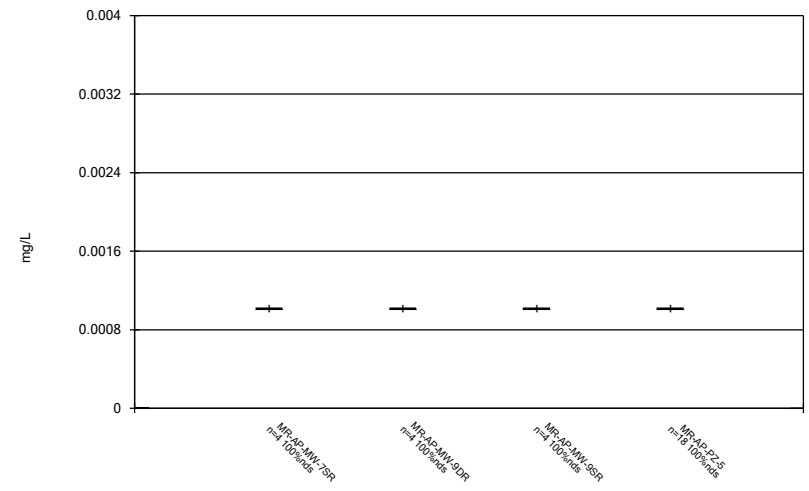
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Box & Whiskers Plot



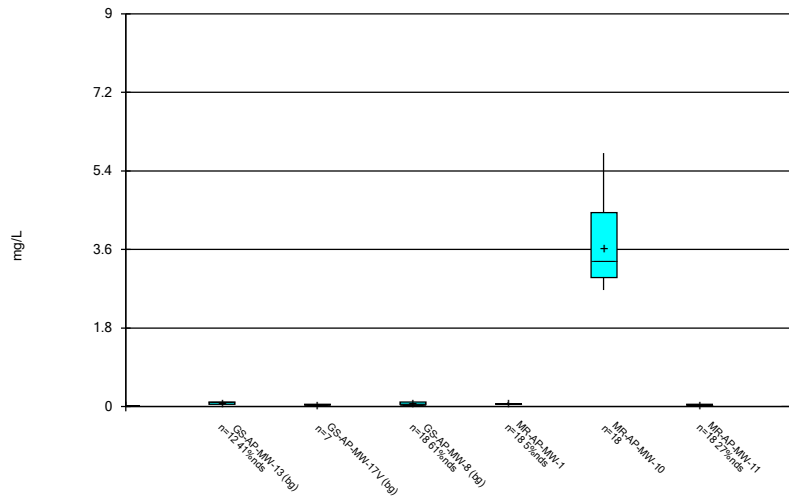
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Box & Whiskers Plot



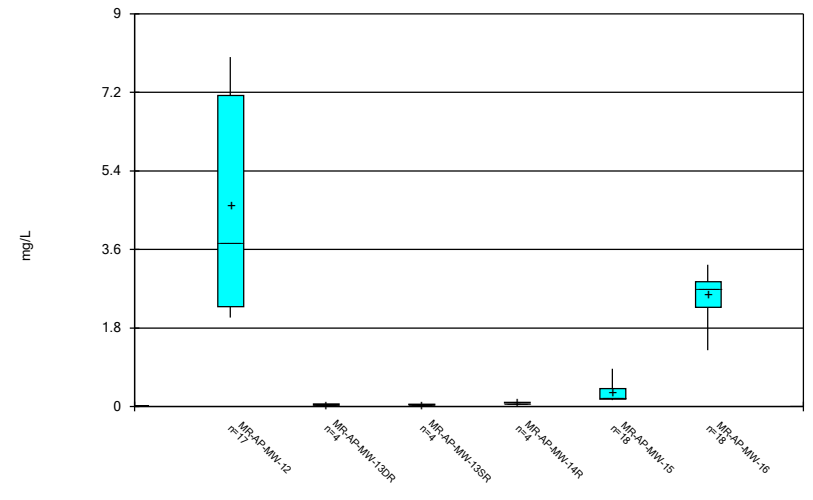
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Box & Whiskers Plot



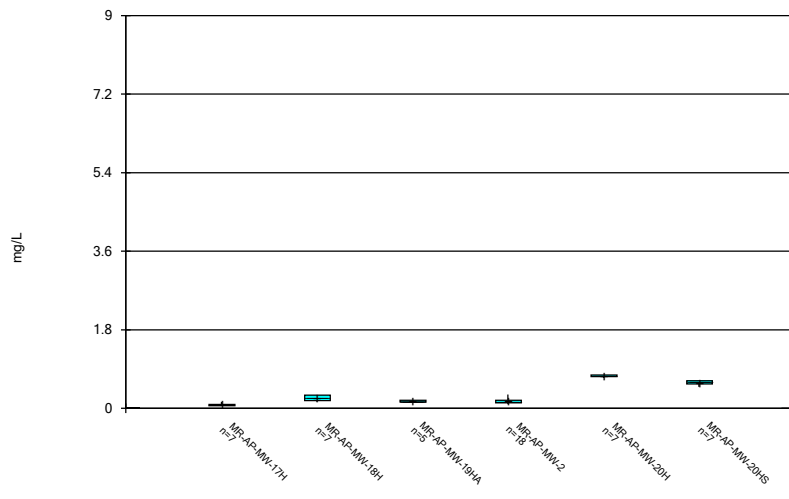
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



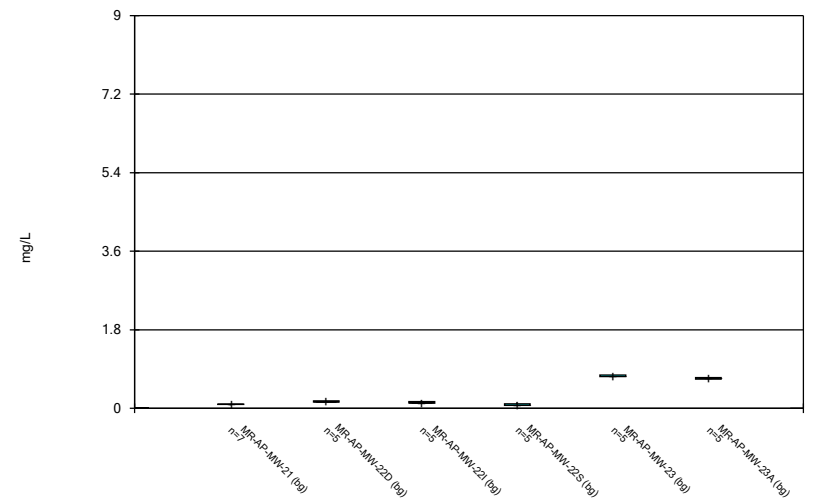
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Box & Whiskers Plot



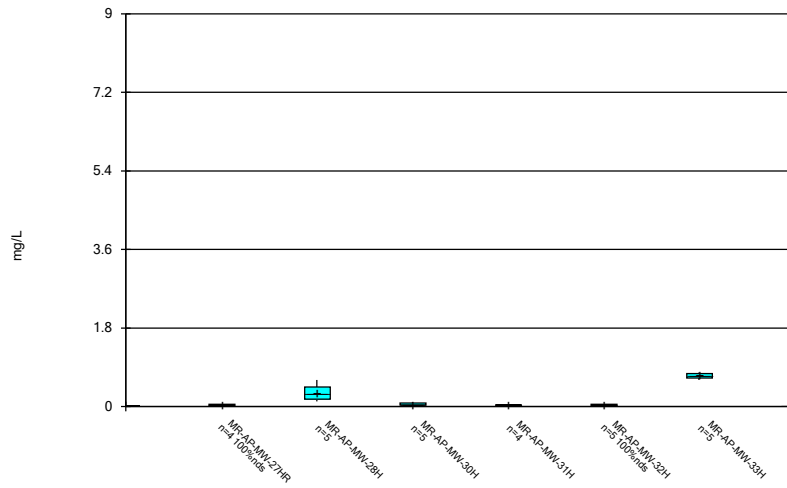
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Box & Whiskers Plot



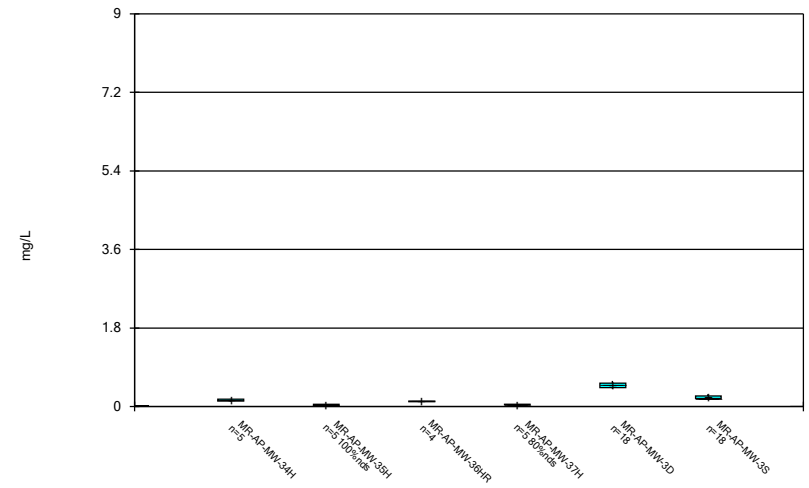
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Box & Whiskers Plot



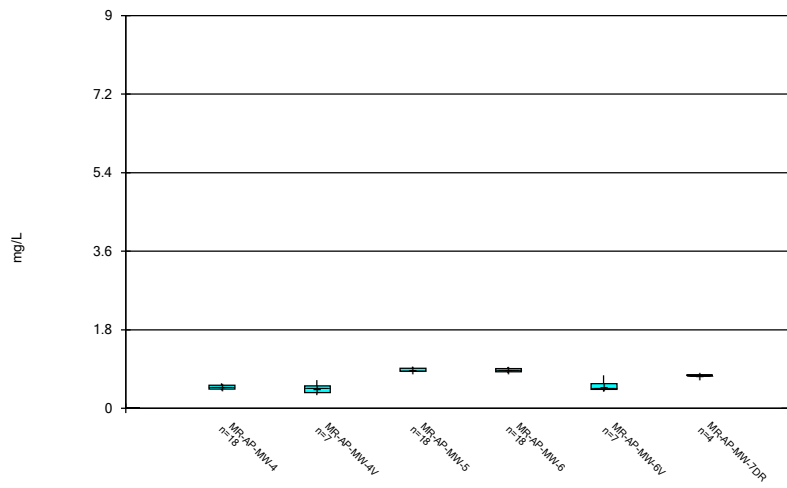
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Box & Whiskers Plot



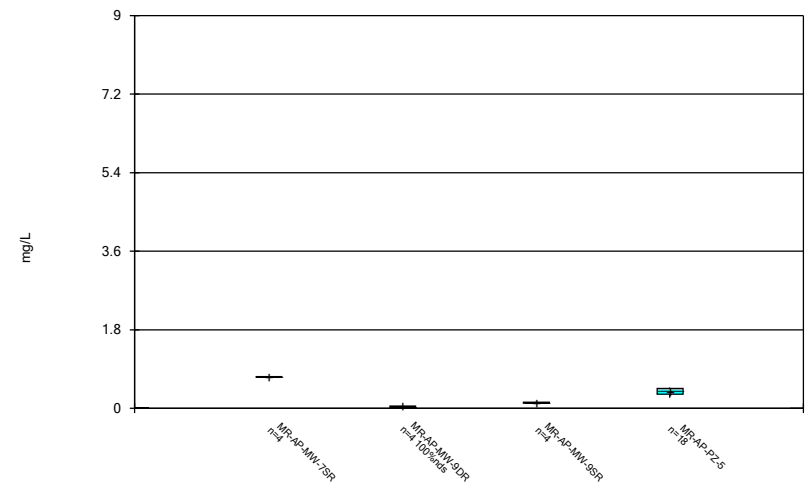
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Box & Whiskers Plot



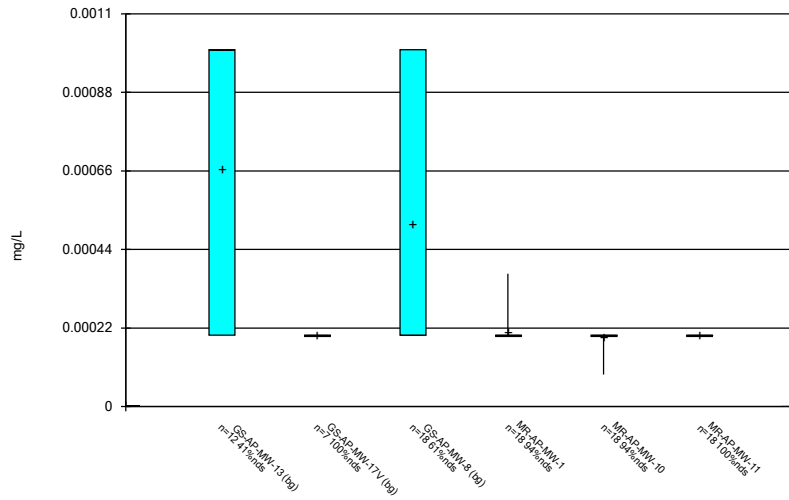
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Box & Whiskers Plot



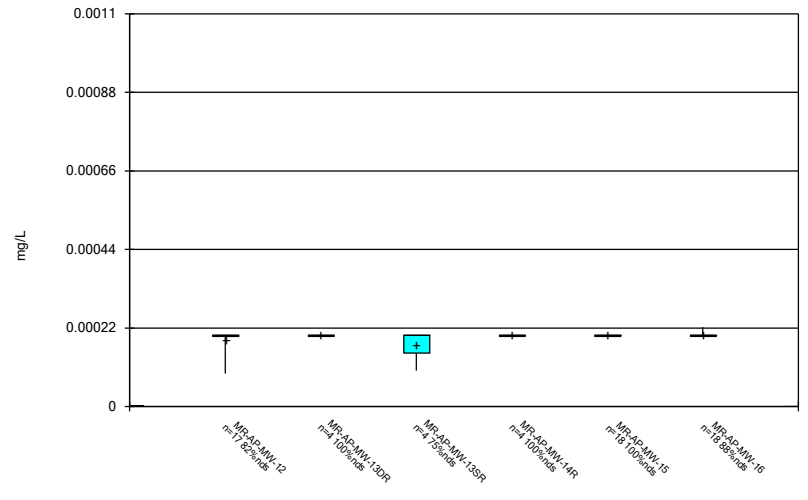
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### Box & Whiskers Plot



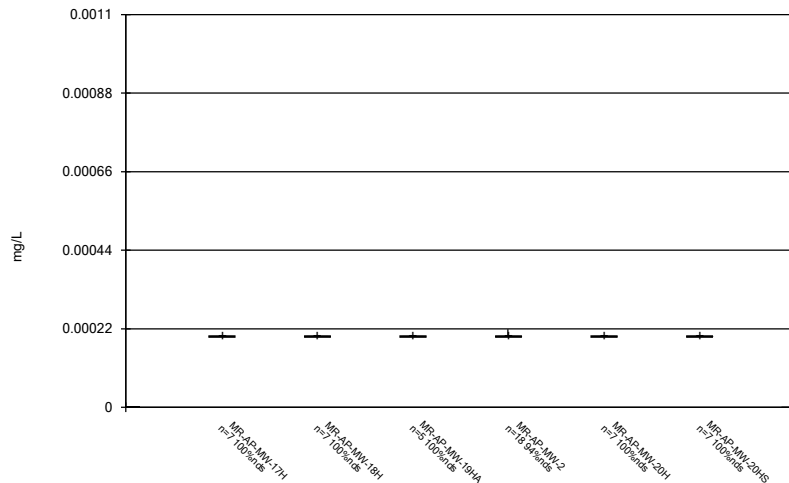
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Box & Whiskers Plot



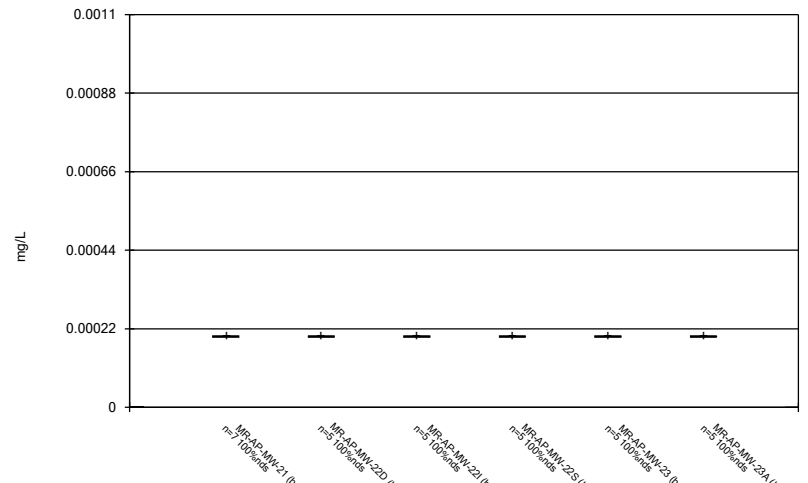
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Box & Whiskers Plot



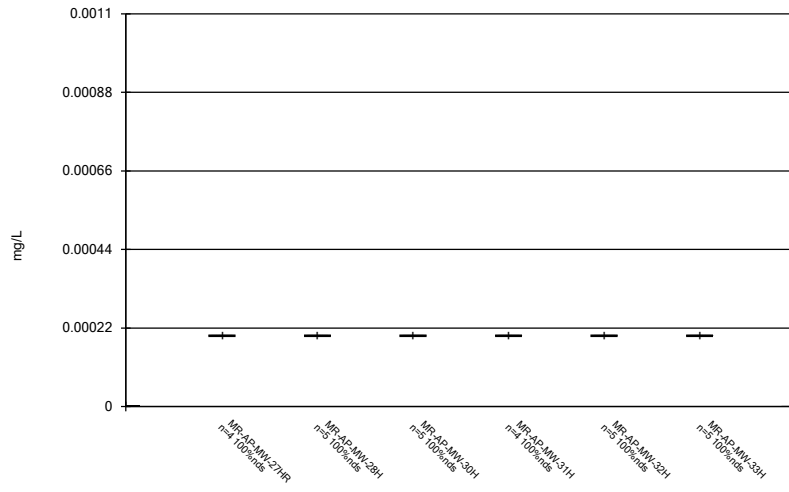
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Box & Whiskers Plot



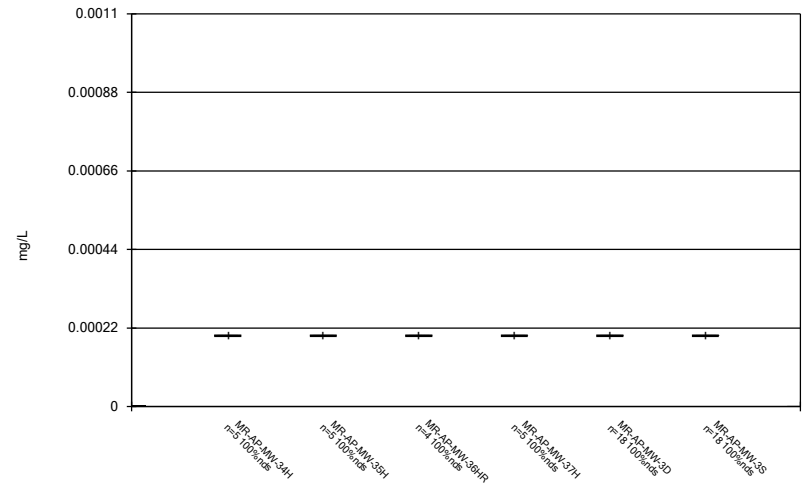
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



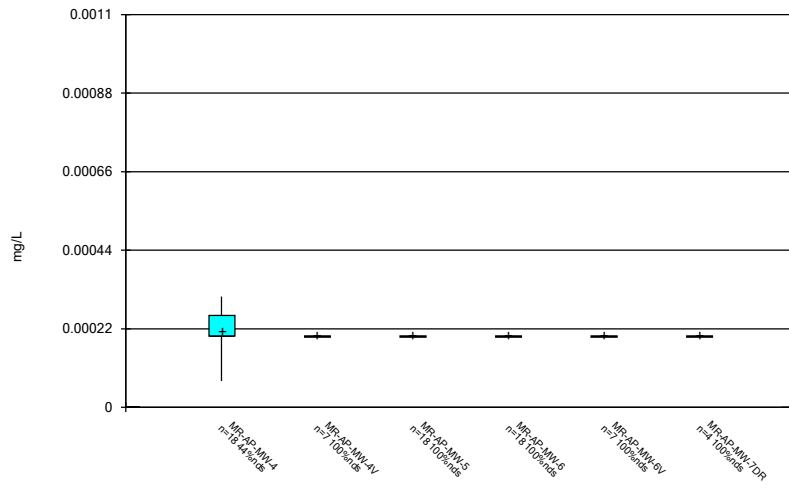
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



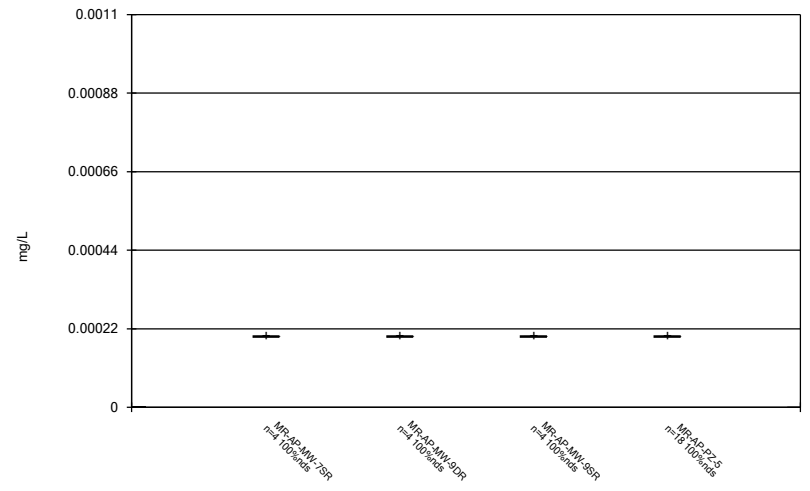
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Box & Whiskers Plot



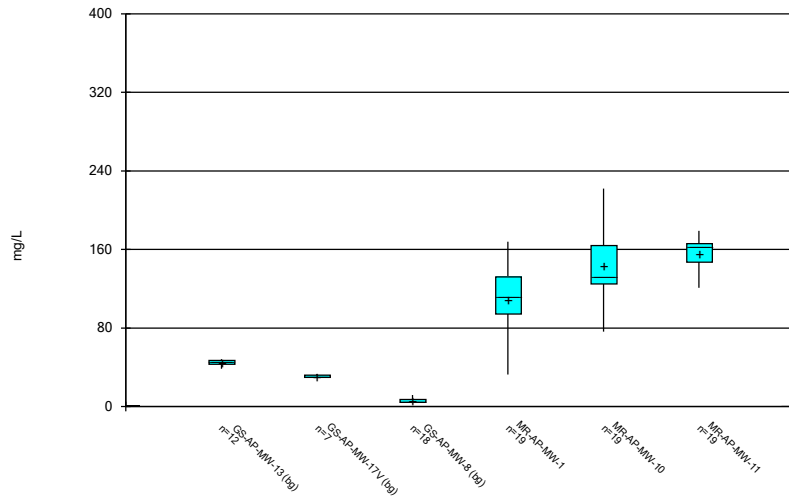
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



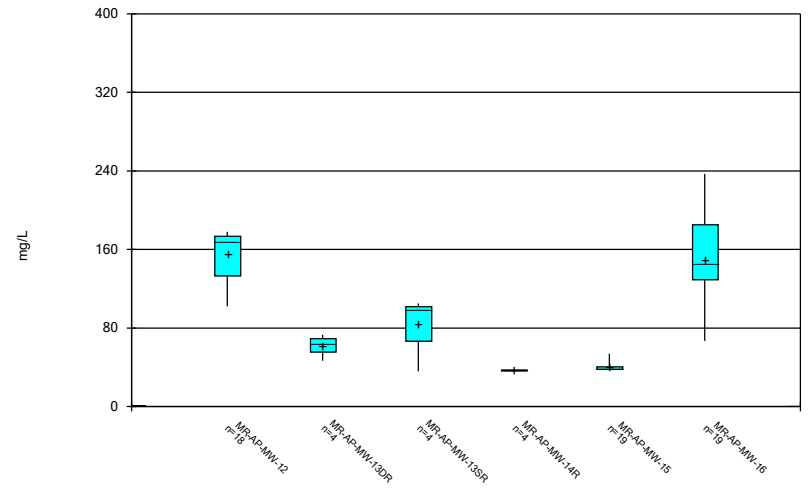
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



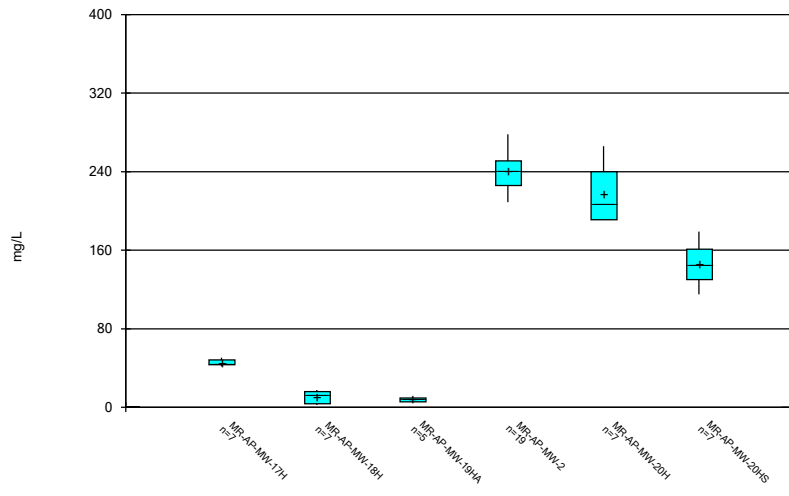
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



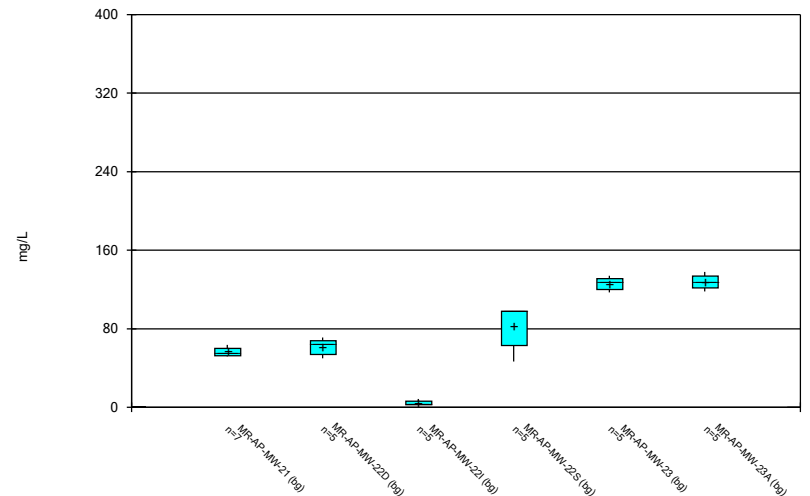
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



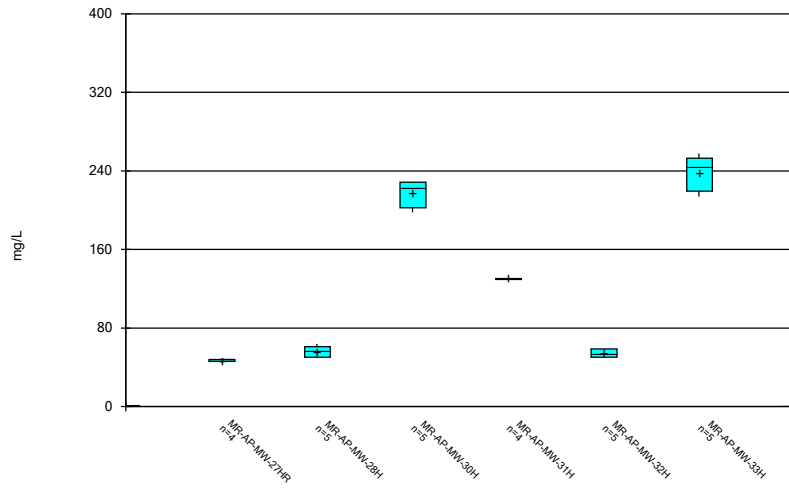
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Box & Whiskers Plot



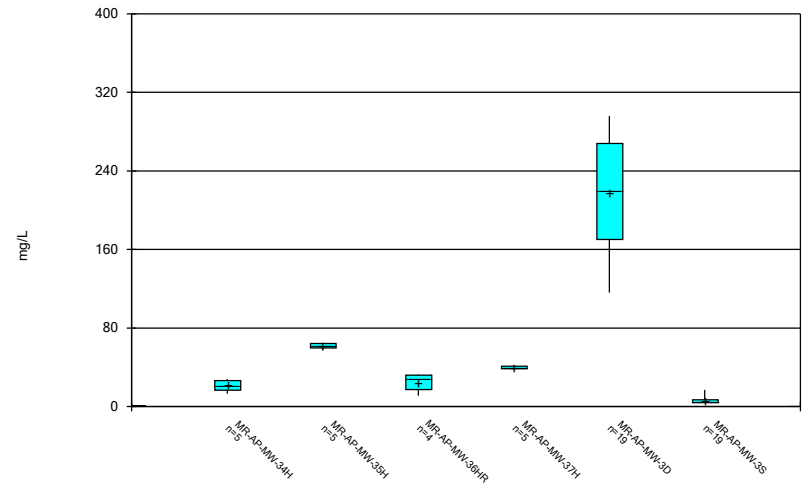
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### Box & Whiskers Plot



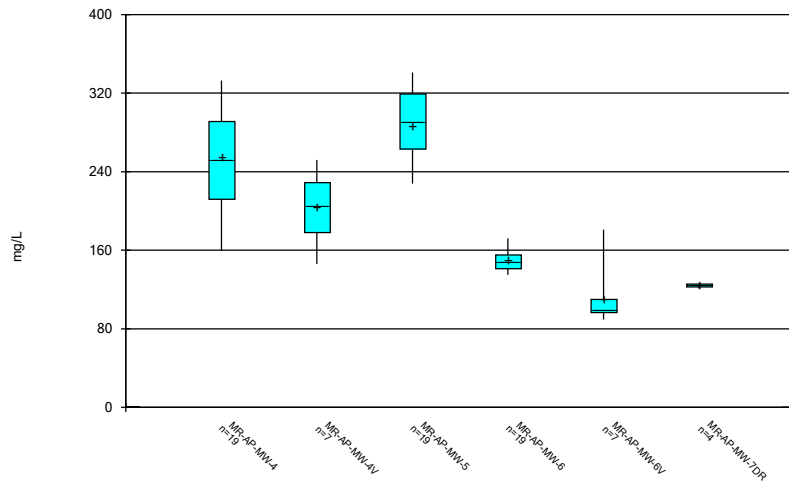
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### Box & Whiskers Plot



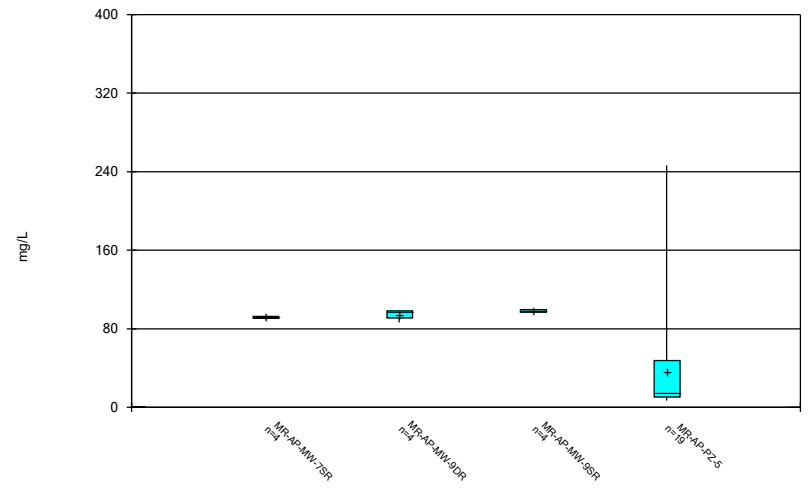
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Plant Miller Client: Southern Company Data: Miller Ash Pond

### Box & Whiskers Plot



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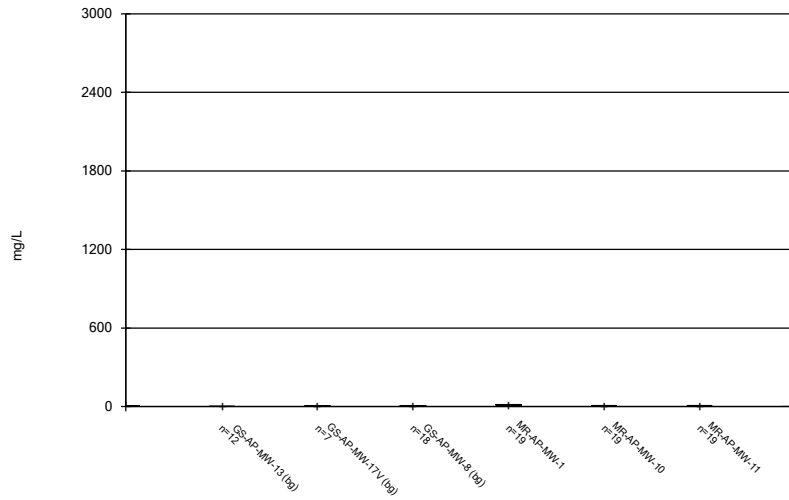
### Box & Whiskers Plot



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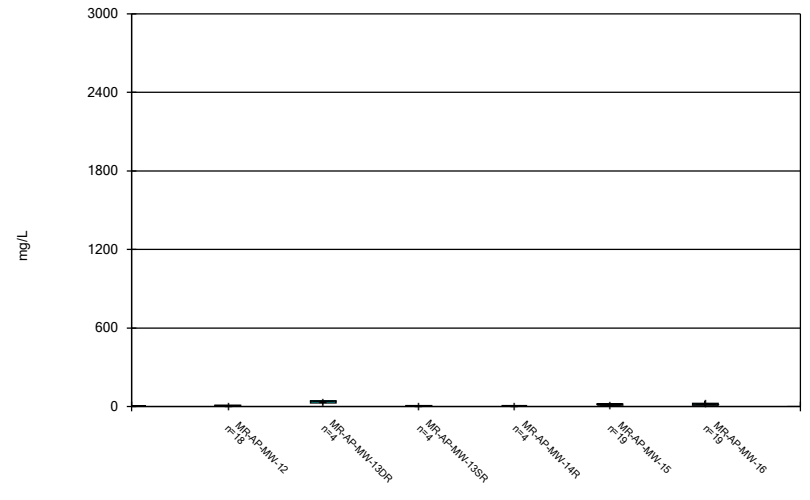


Box & Whiskers Plot



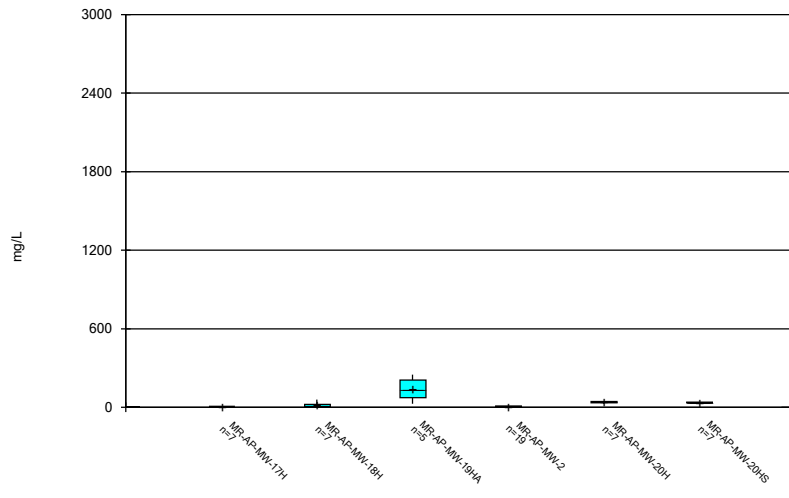
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Box & Whiskers Plot



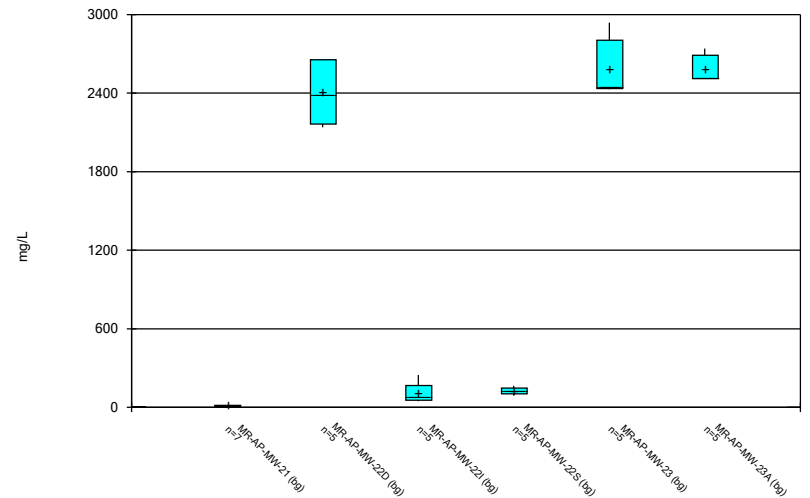
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Box & Whiskers Plot



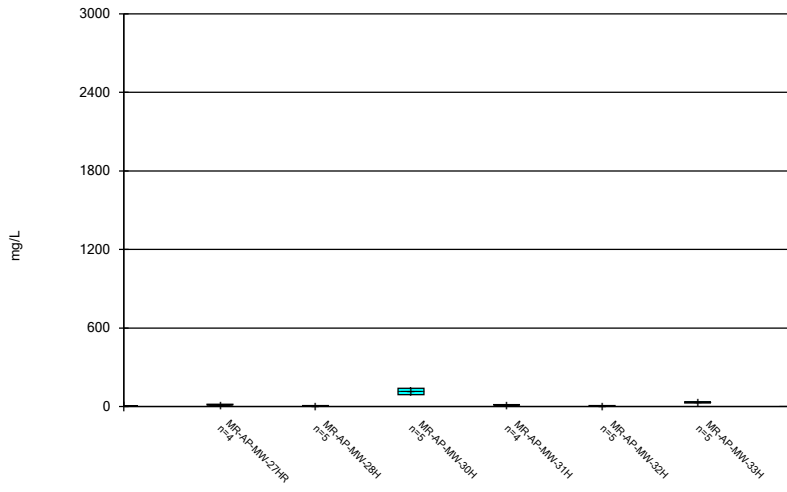
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Box & Whiskers Plot



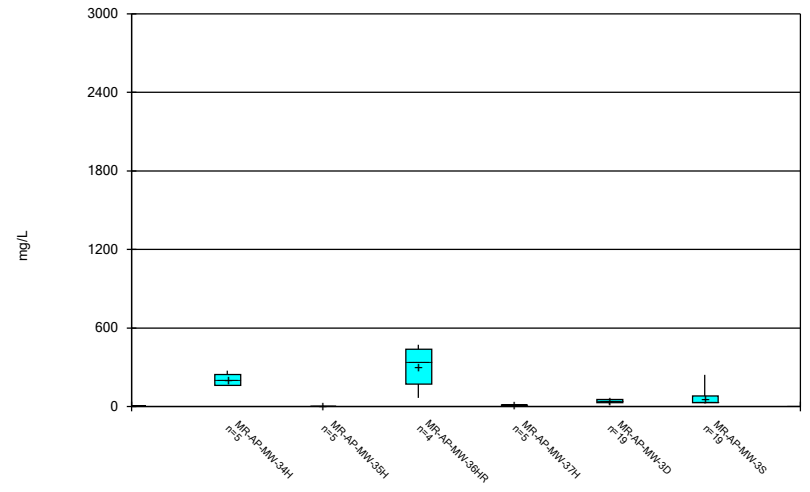
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### Box & Whiskers Plot



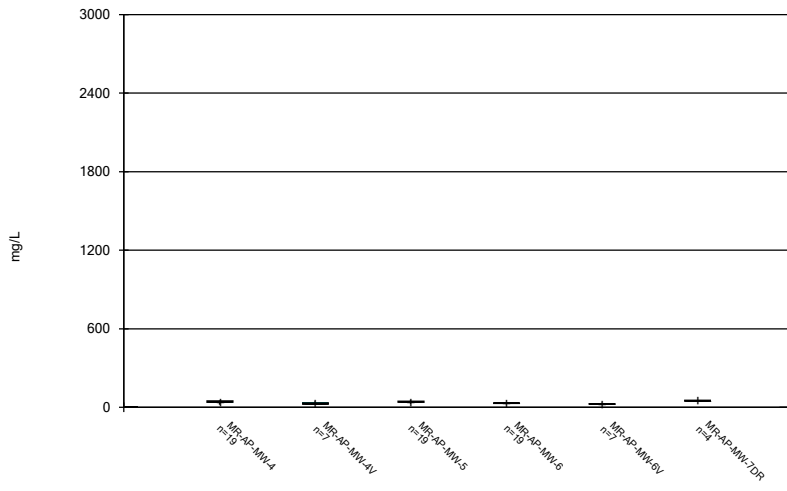
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### Box & Whiskers Plot



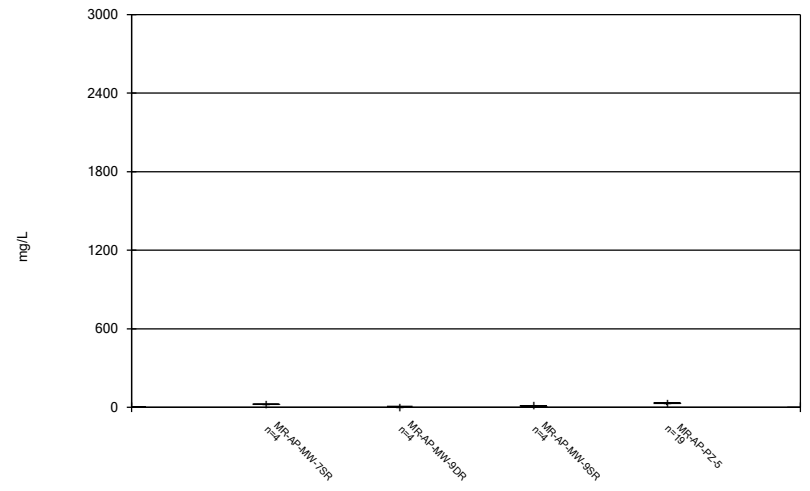
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### Box & Whiskers Plot



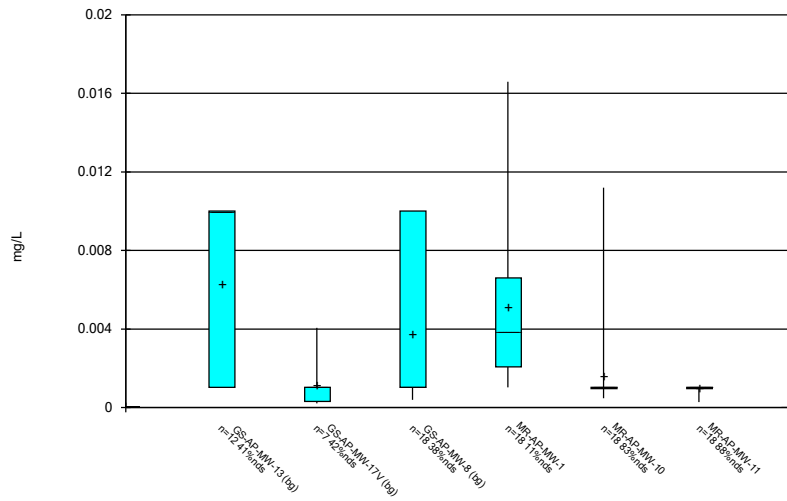
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### Box & Whiskers Plot



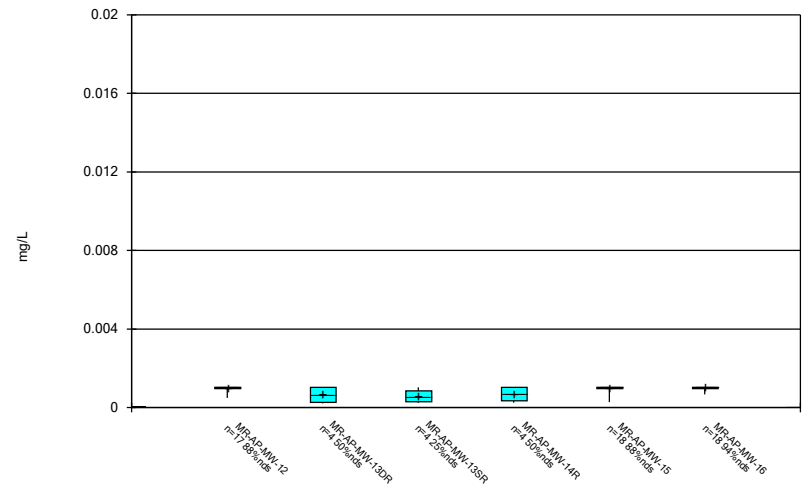
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### Box & Whiskers Plot



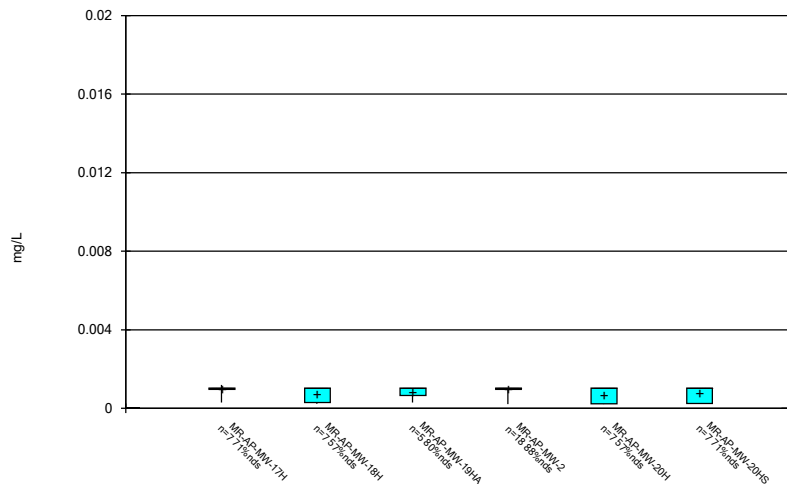
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### Box & Whiskers Plot



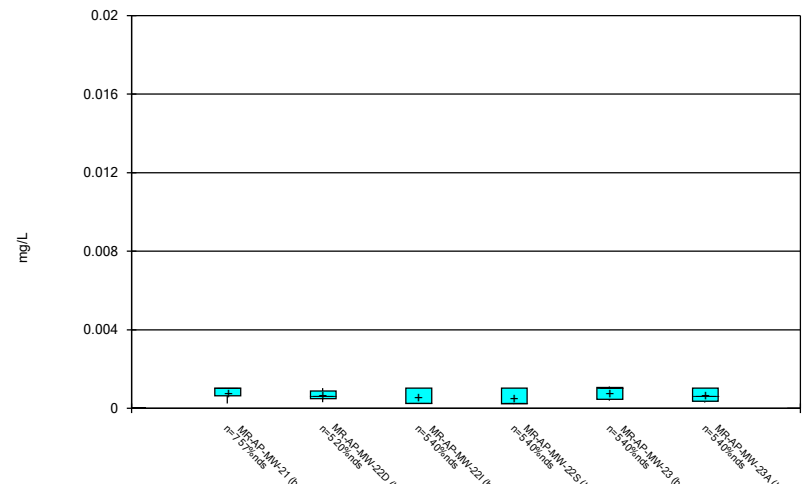
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### Box & Whiskers Plot



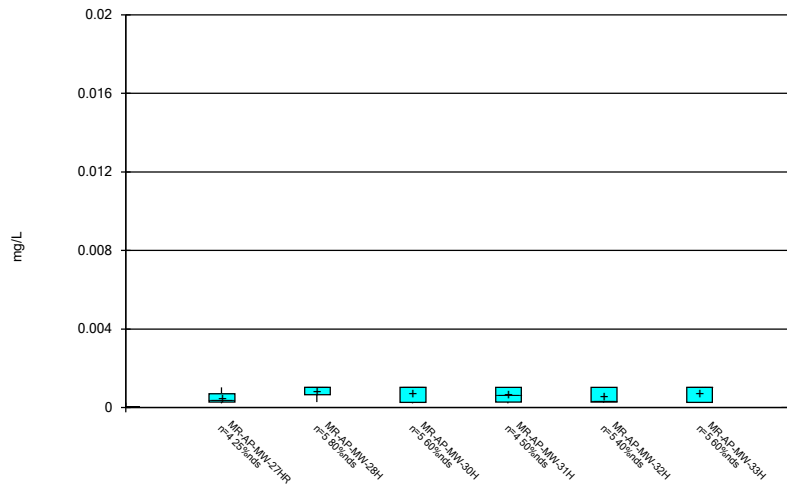
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### Box & Whiskers Plot



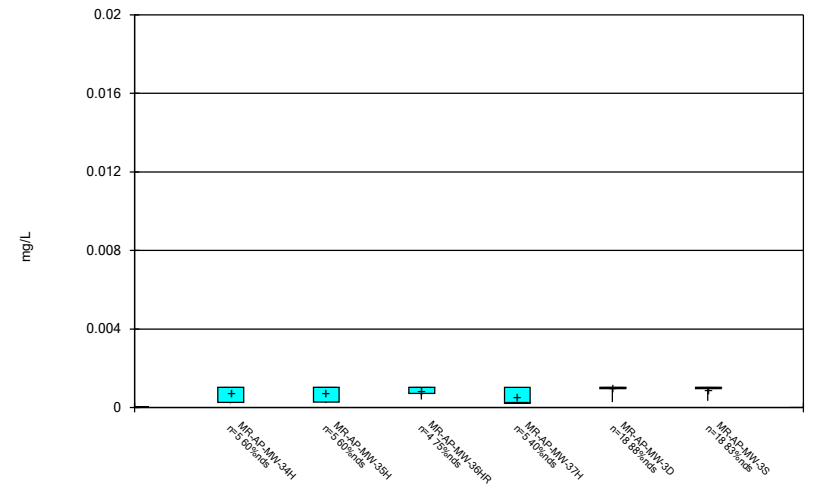
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### Box & Whiskers Plot



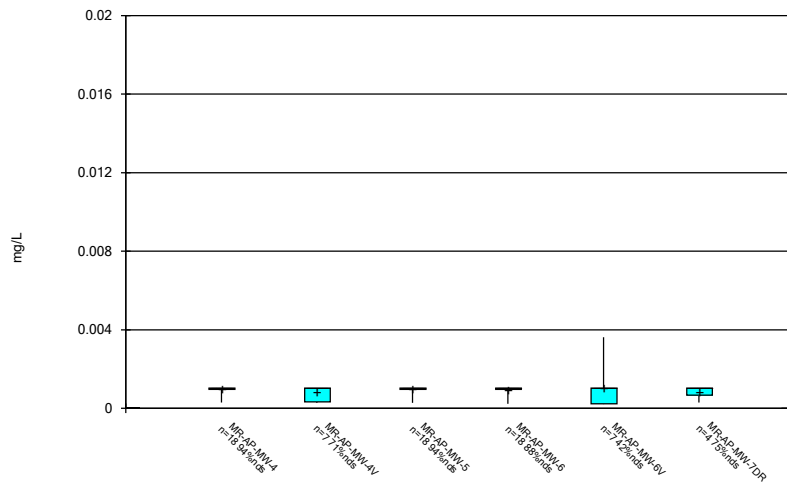
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### Box & Whiskers Plot



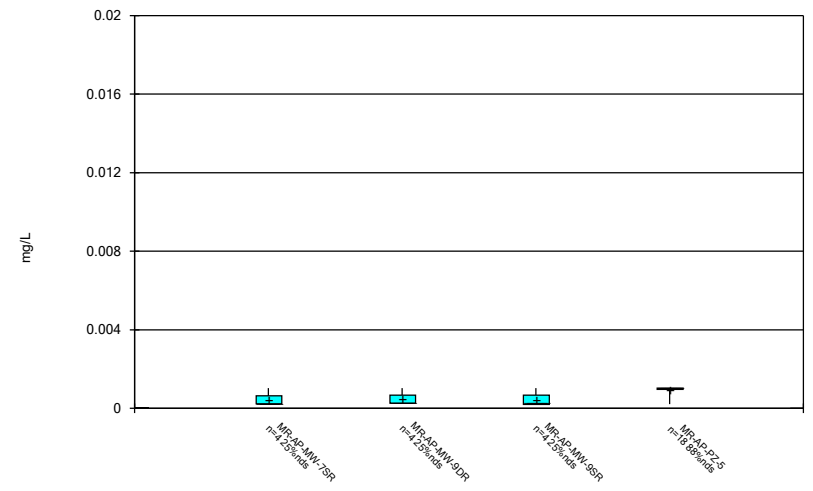
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### Box & Whiskers Plot



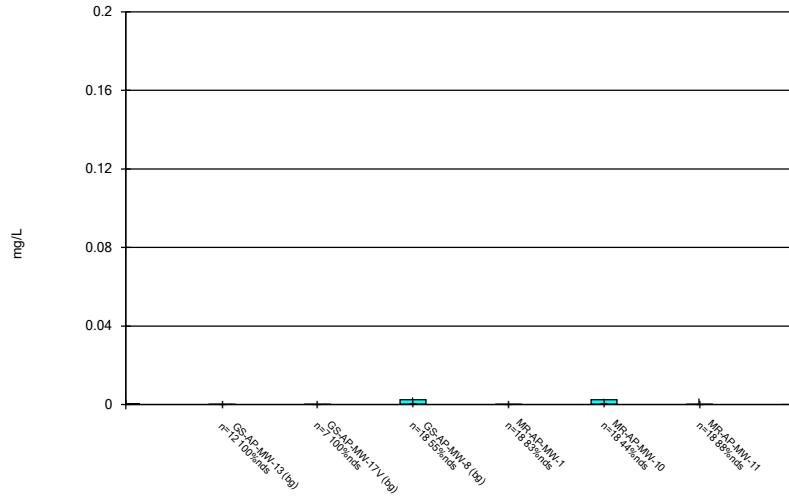
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### Box & Whiskers Plot



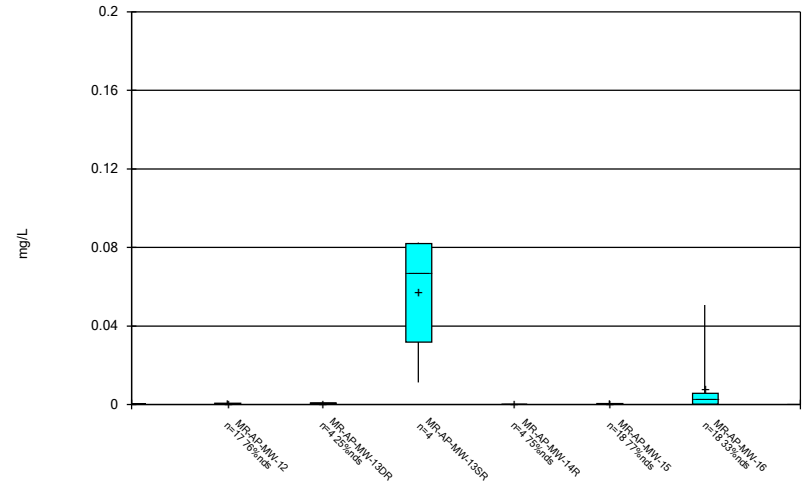
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Box & Whiskers Plot



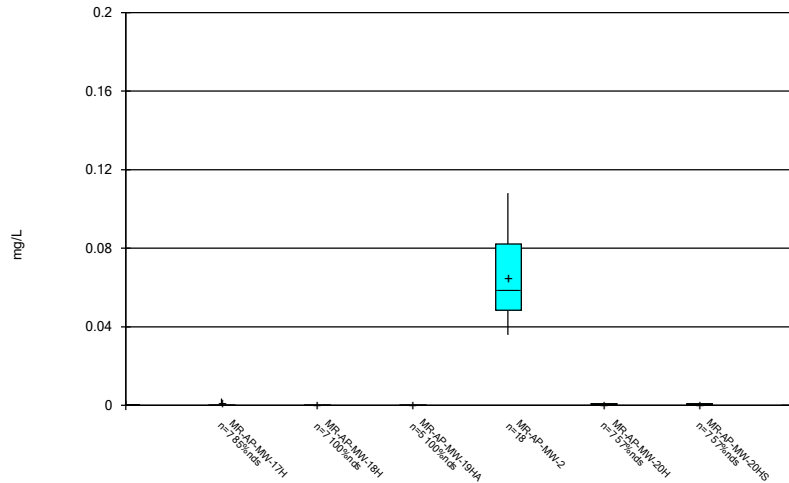
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Box & Whiskers Plot



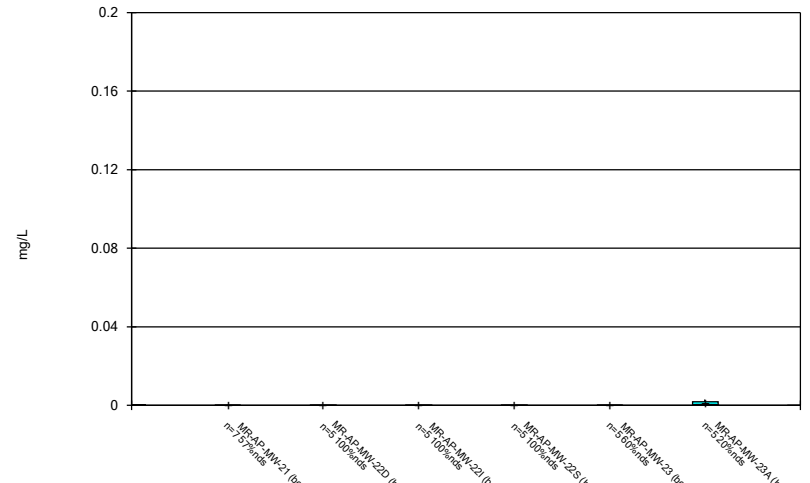
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Box & Whiskers Plot



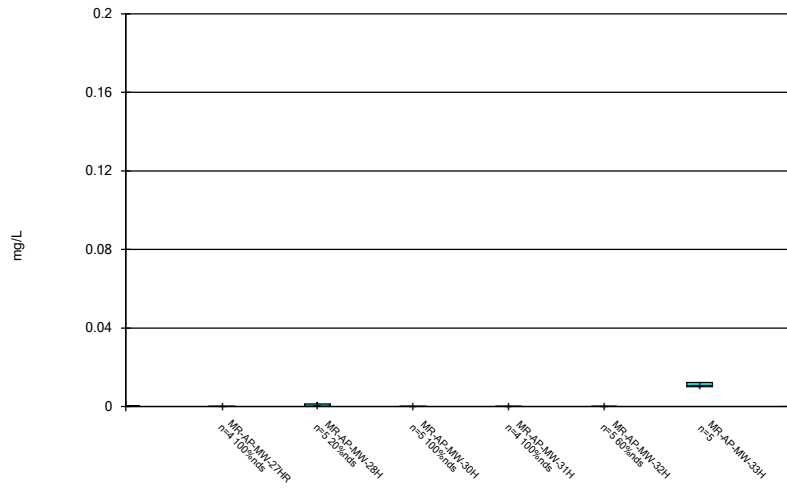
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Box & Whiskers Plot



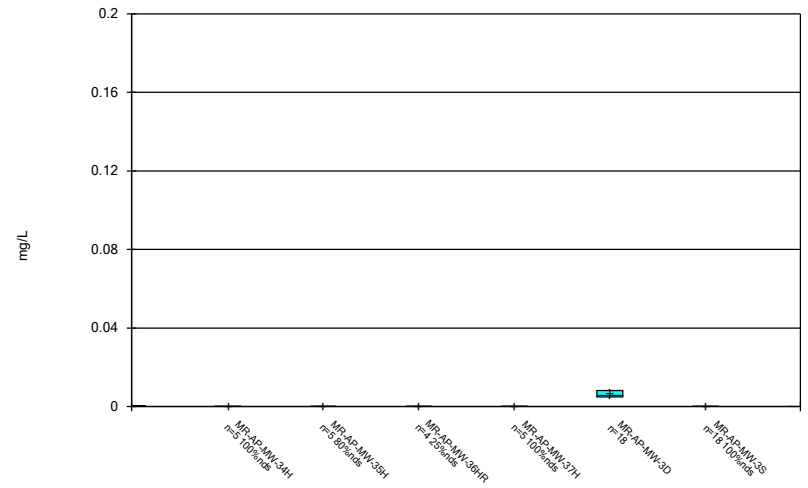
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### Box & Whiskers Plot



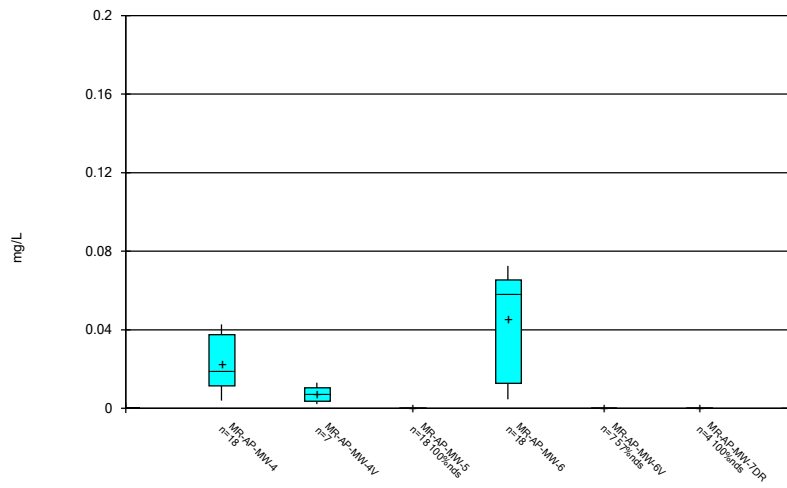
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### Box & Whiskers Plot



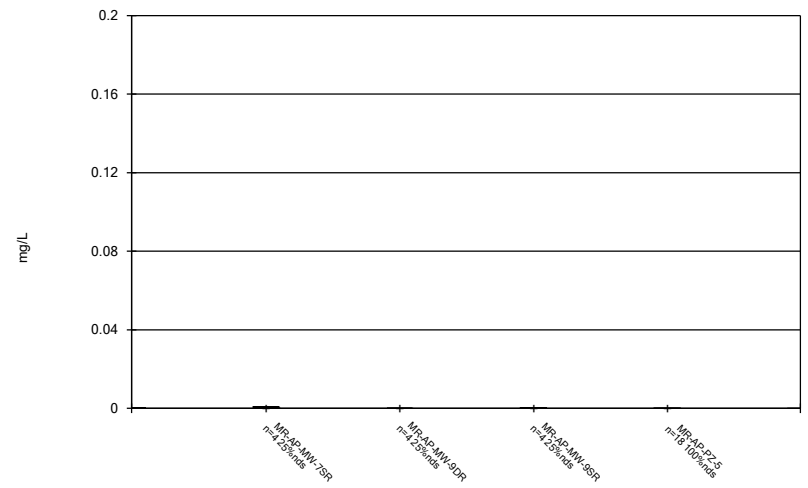
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### Box & Whiskers Plot



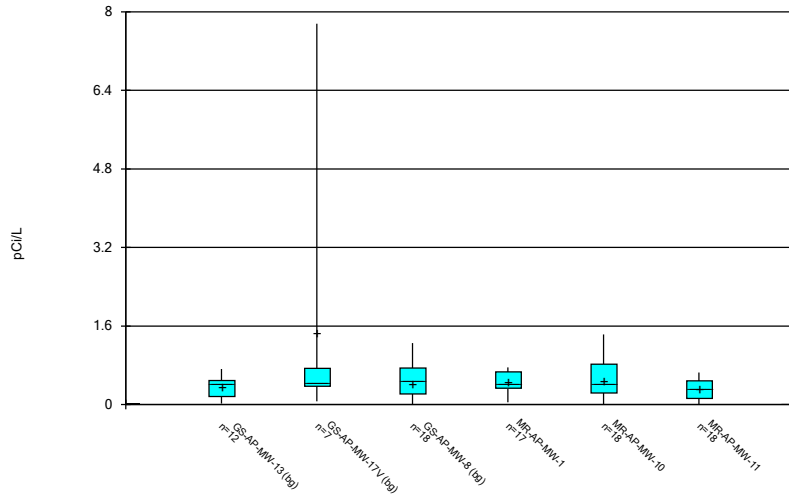
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### Box & Whiskers Plot



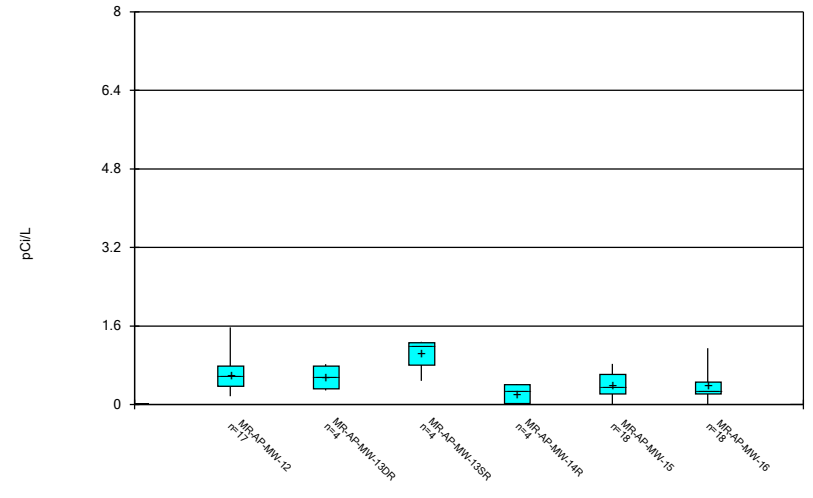
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Box & Whiskers Plot



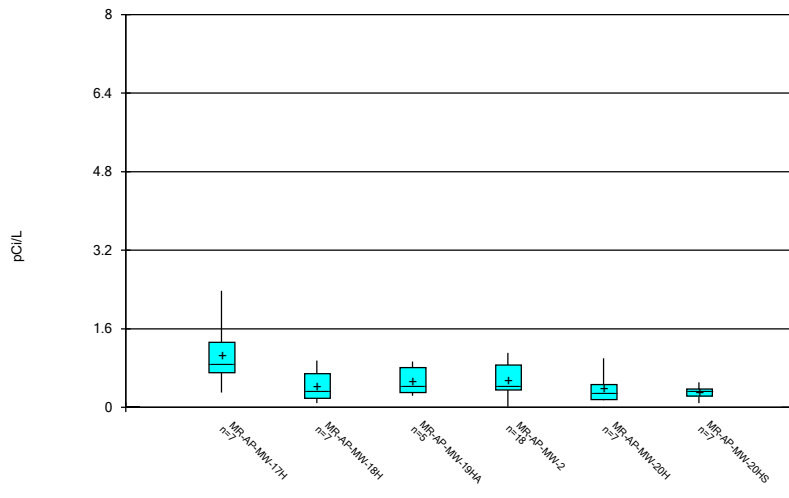
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Box & Whiskers Plot



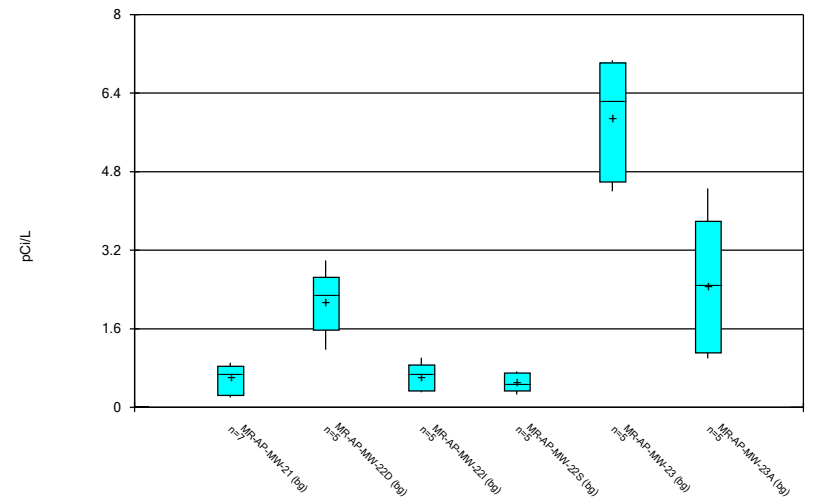
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Box & Whiskers Plot



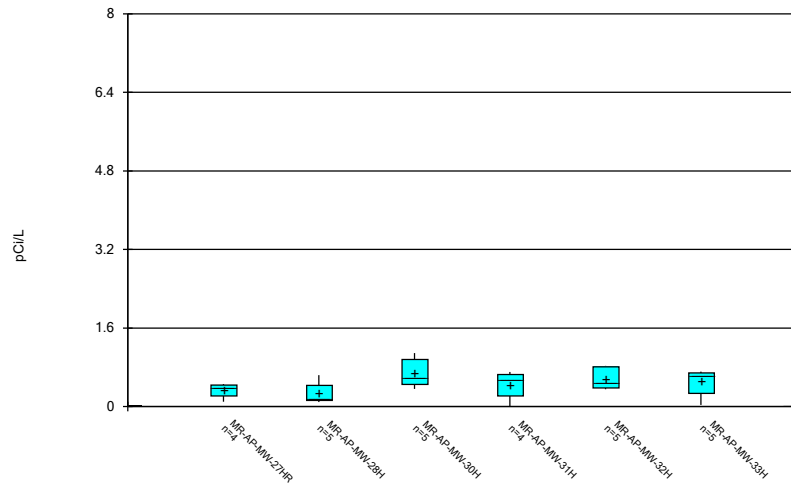
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Box & Whiskers Plot



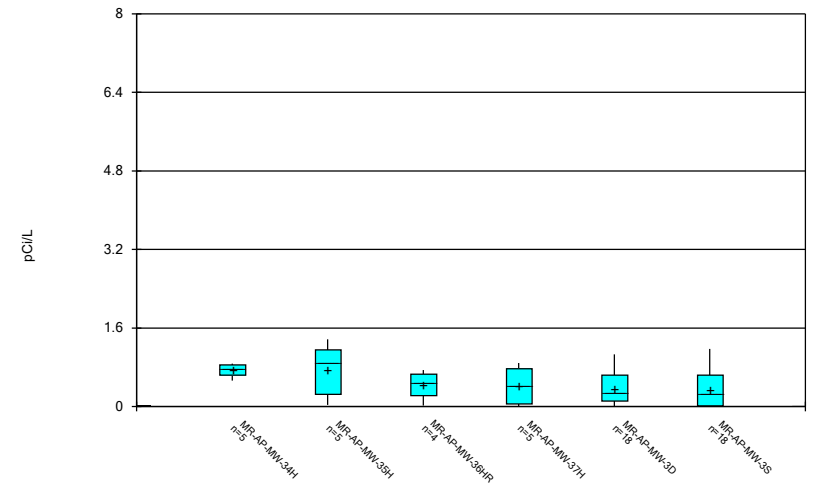
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### Box & Whiskers Plot



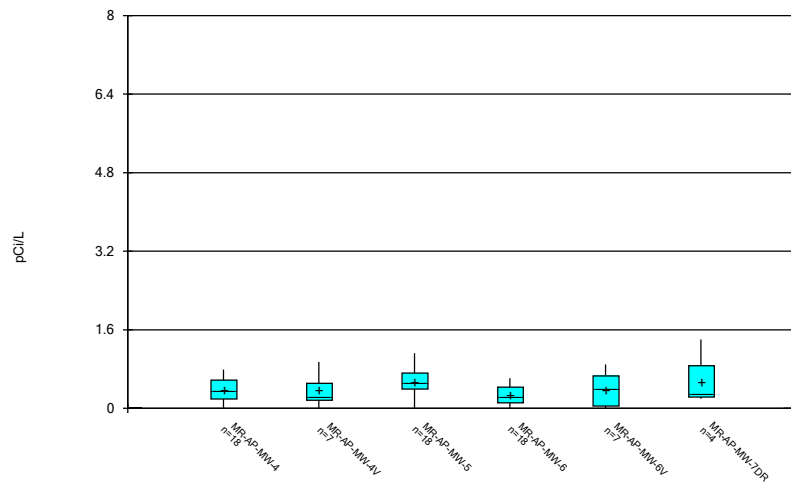
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### Box & Whiskers Plot



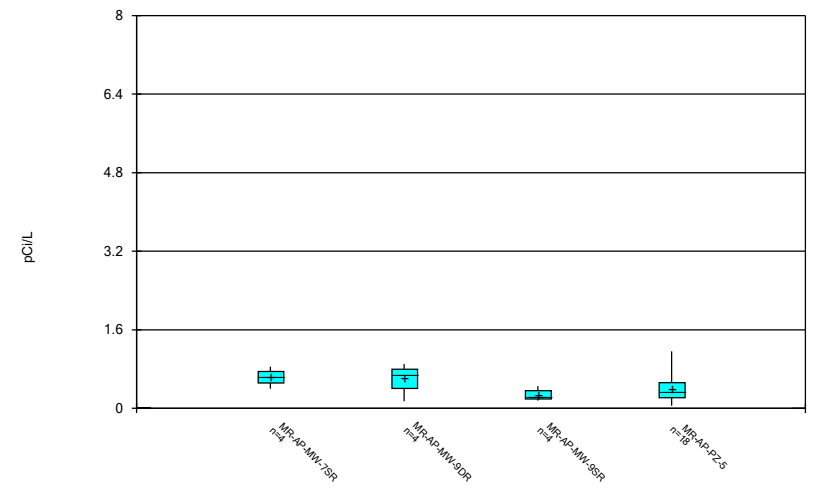
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### Box & Whiskers Plot



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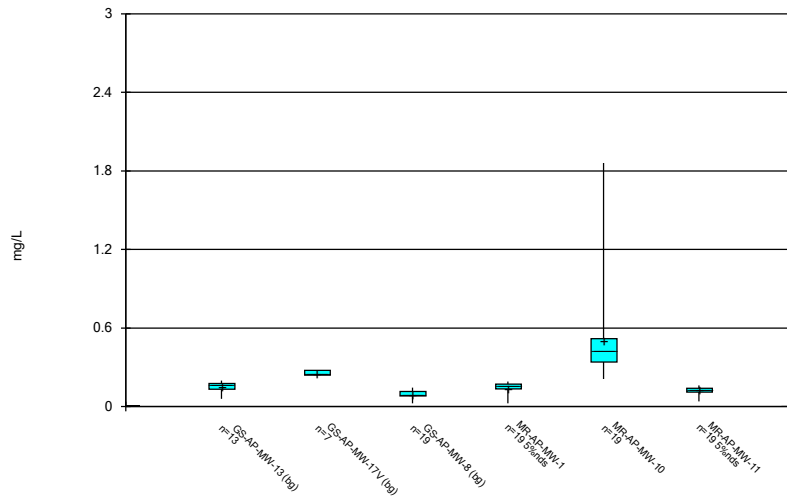
### Box & Whiskers Plot



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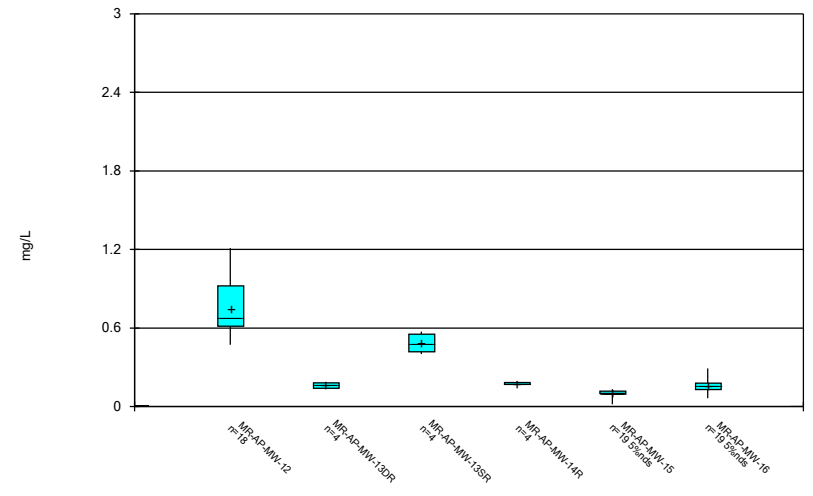


### Box & Whiskers Plot



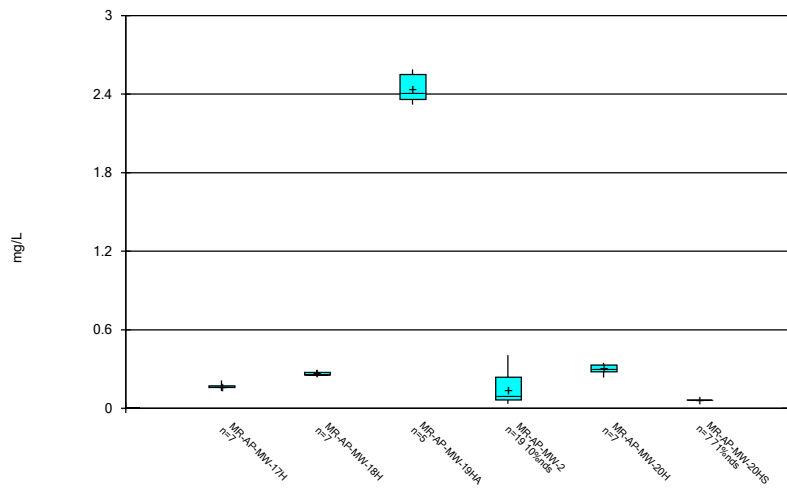
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Box & Whiskers Plot



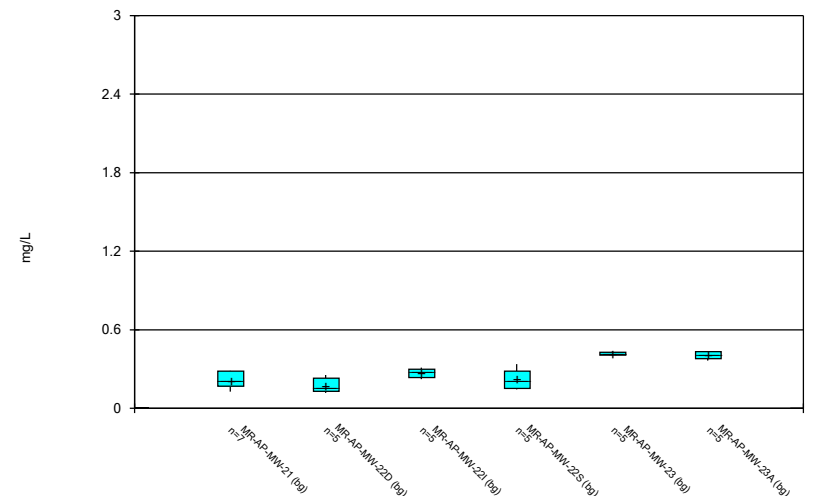
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### Box & Whiskers Plot



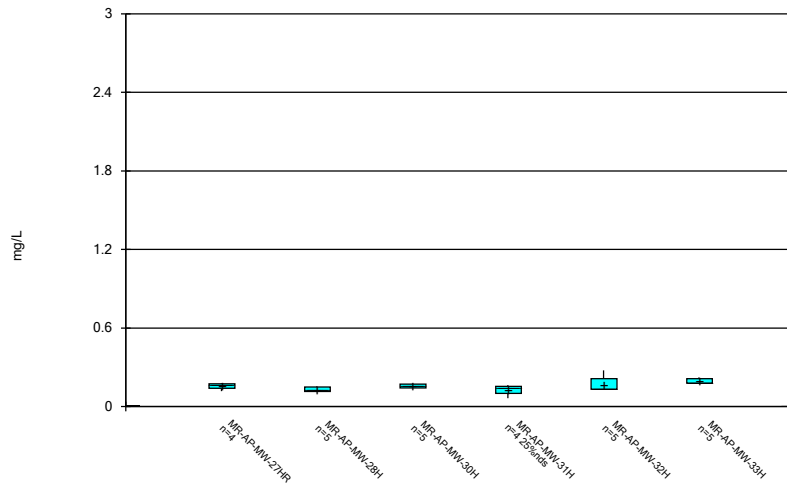
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### Box & Whiskers Plot



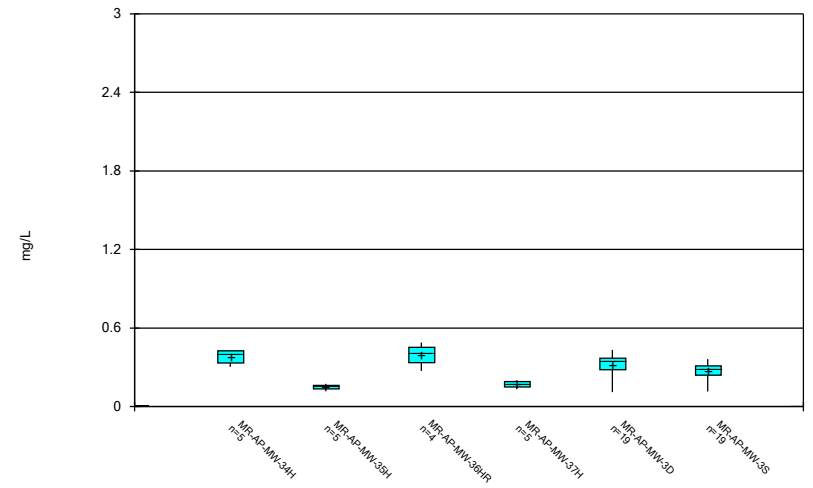
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### Box & Whiskers Plot



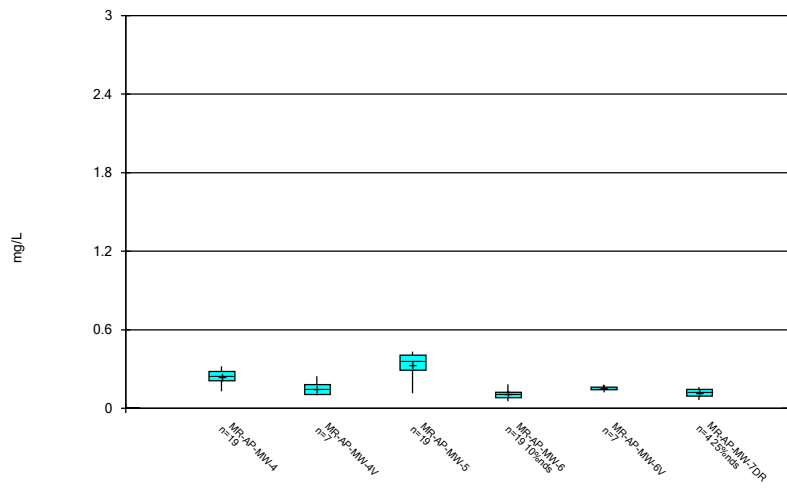
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### Box & Whiskers Plot



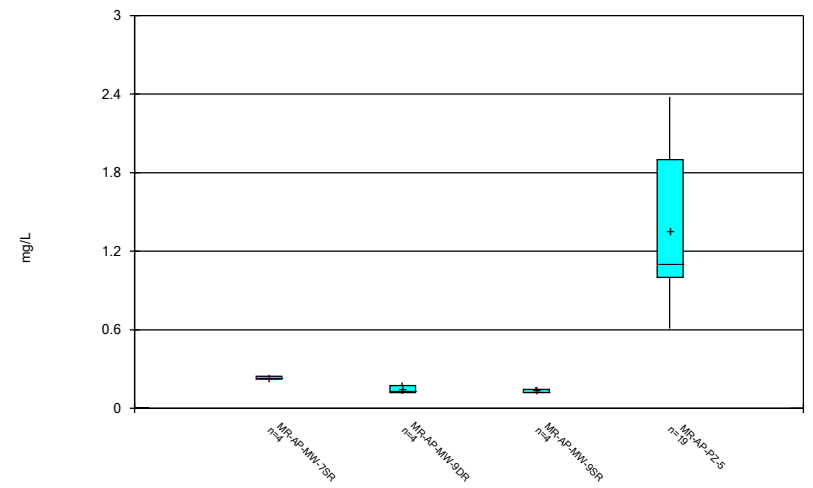
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### Box & Whiskers Plot



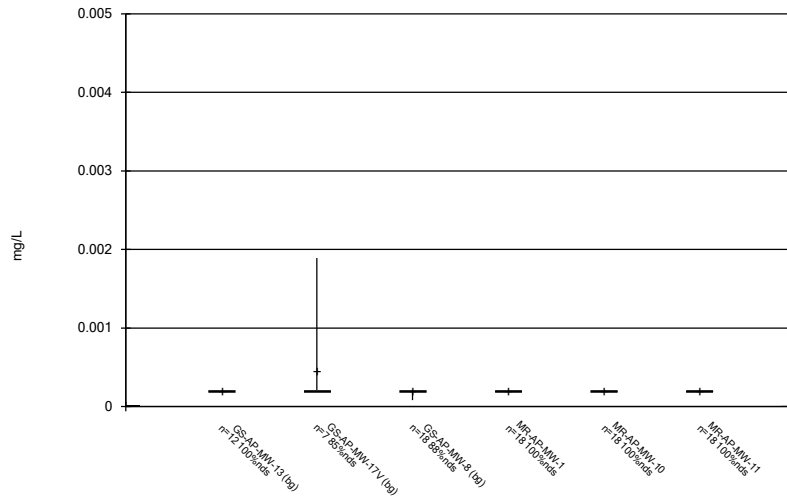
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### Box & Whiskers Plot



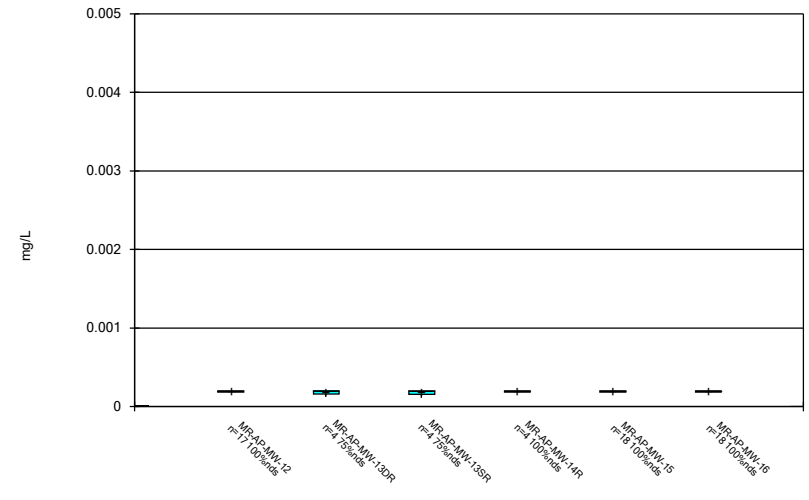
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Plant Miller Client: Southern Company Data: Miller Ash Pond

### Box & Whiskers Plot



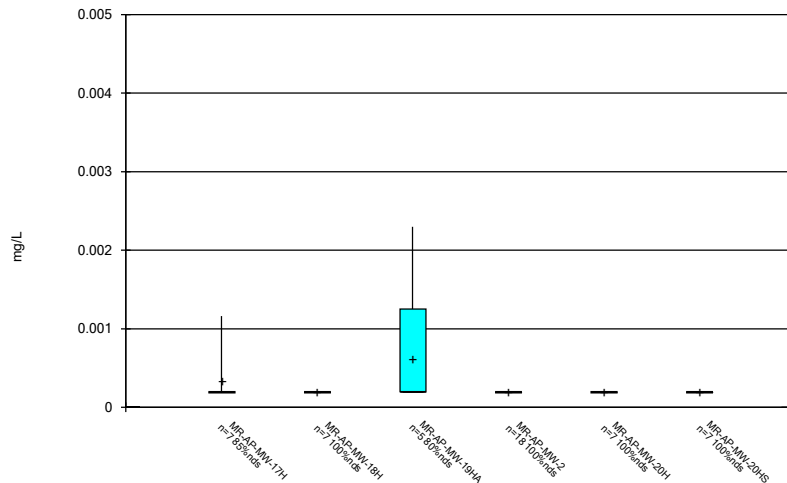
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Box & Whiskers Plot



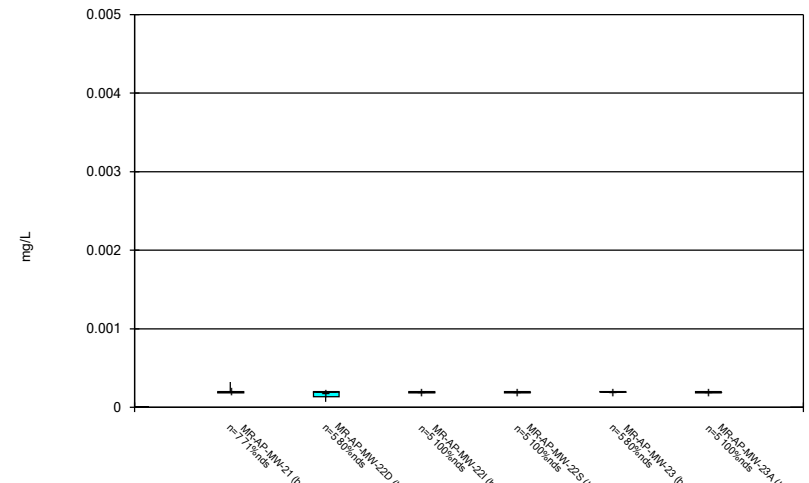
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### Box & Whiskers Plot



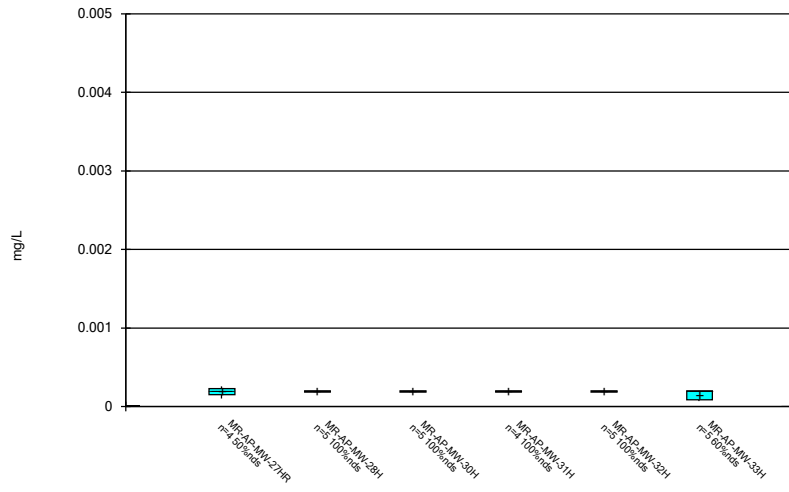
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### Box & Whiskers Plot



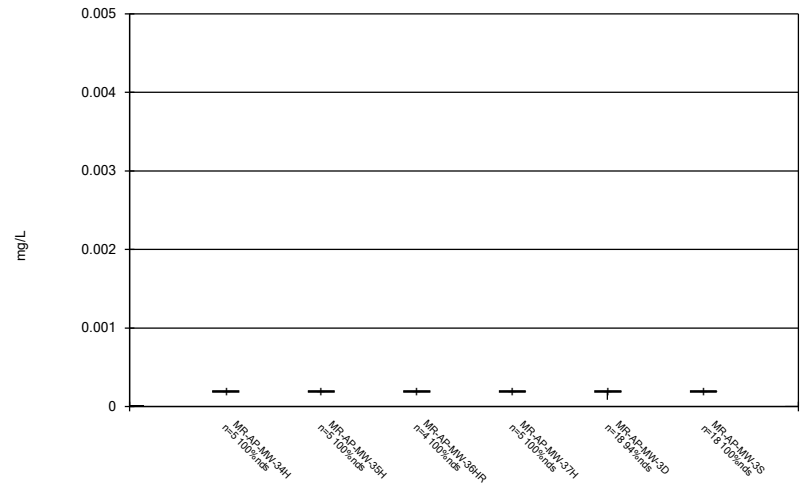
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Box & Whiskers Plot



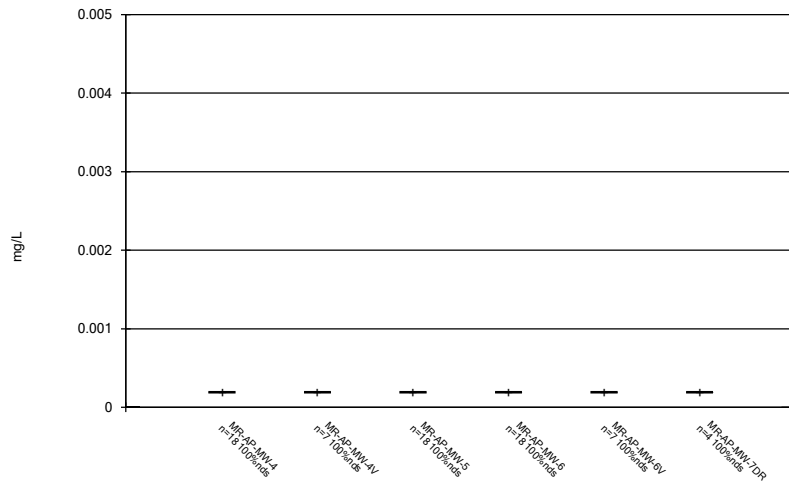
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Box & Whiskers Plot



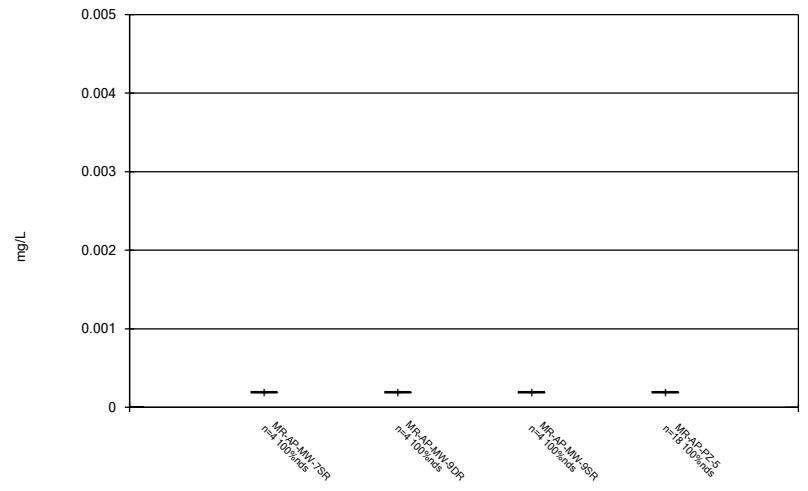
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Box & Whiskers Plot



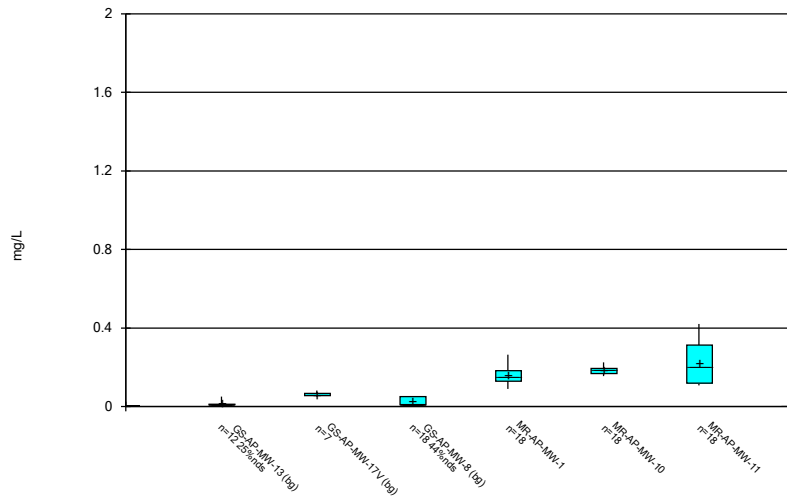
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Box & Whiskers Plot



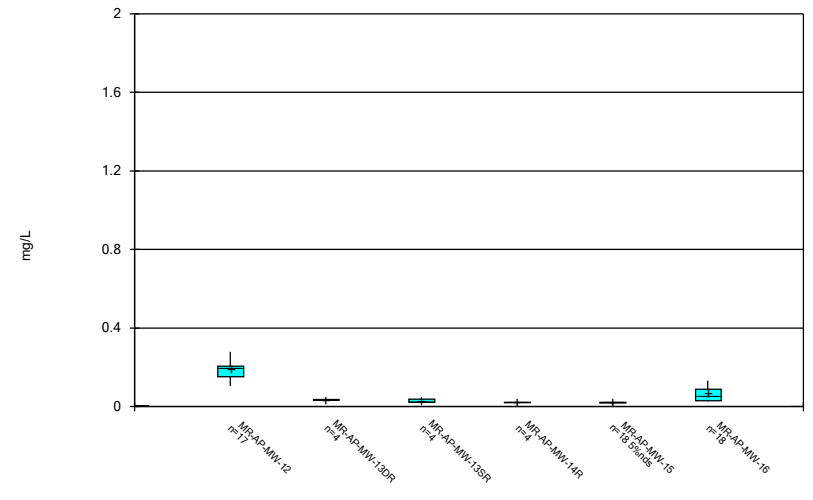
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### Box & Whiskers Plot



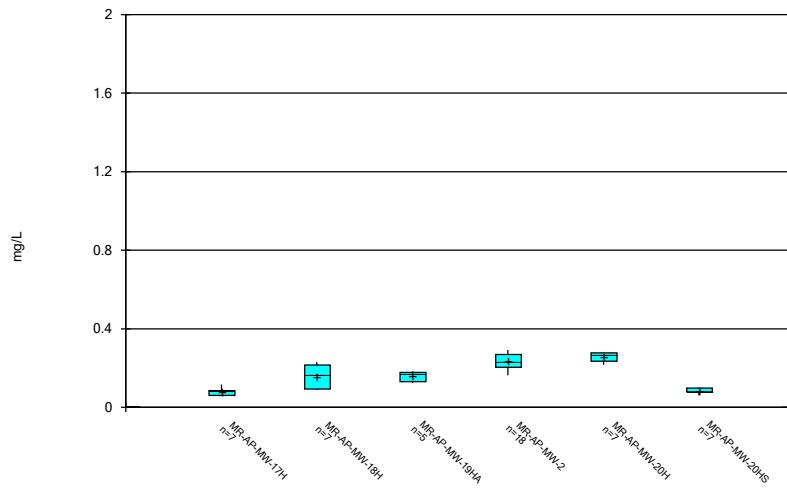
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### Box & Whiskers Plot



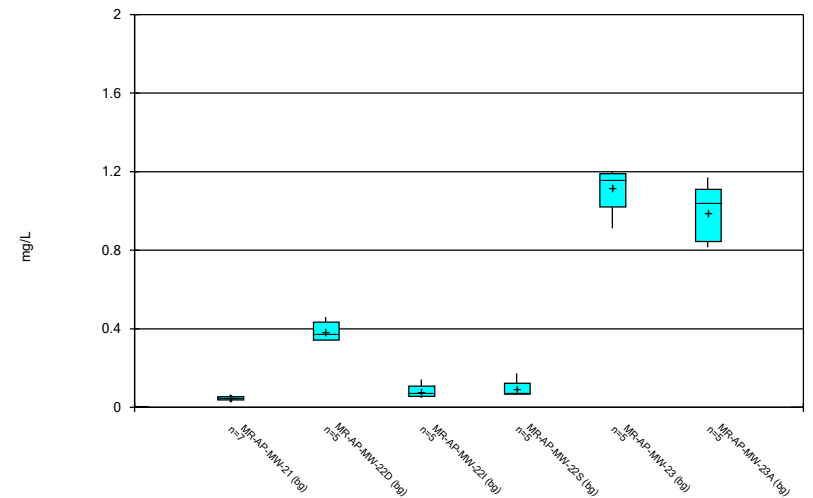
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### Box & Whiskers Plot



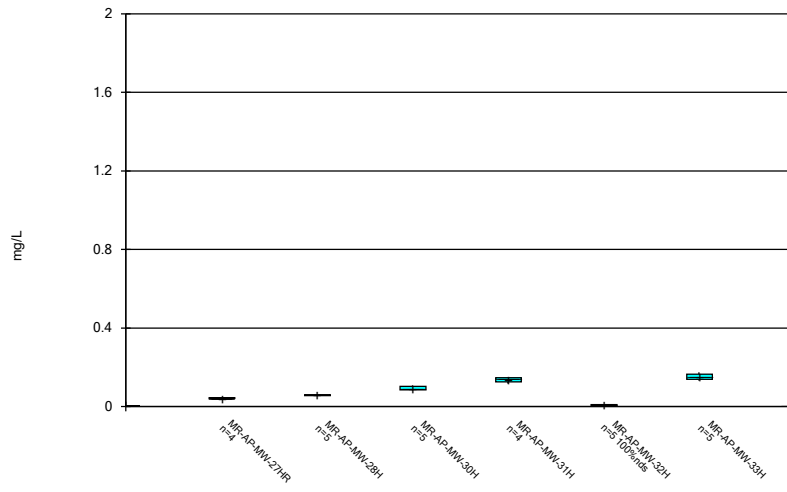
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### Box & Whiskers Plot



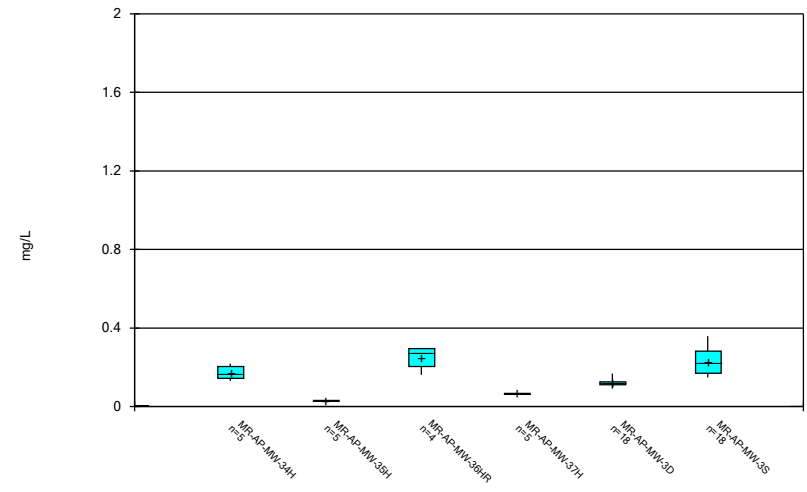
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### Box & Whiskers Plot



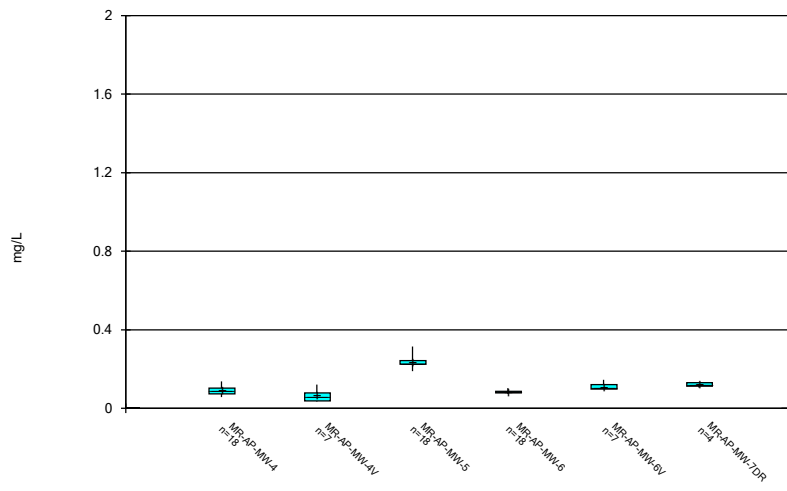
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### Box & Whiskers Plot



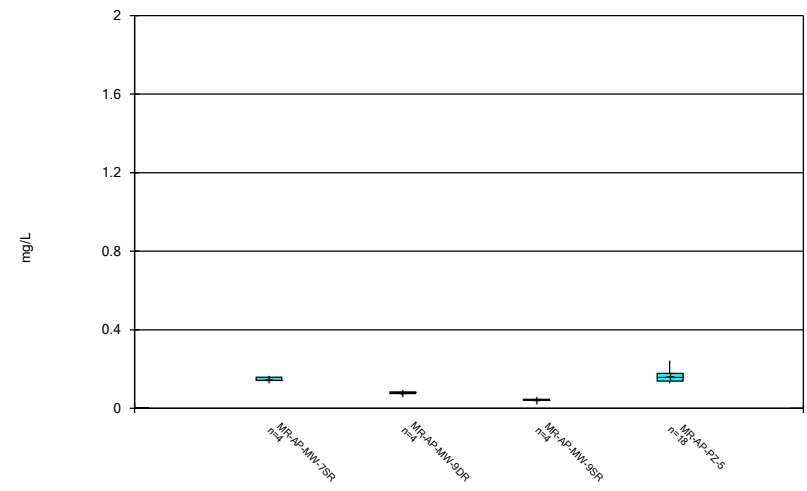
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### Box & Whiskers Plot



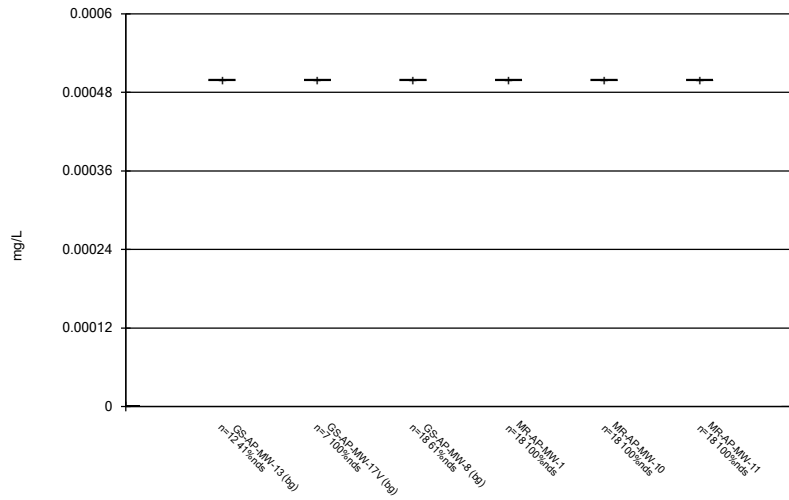
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### Box & Whiskers Plot



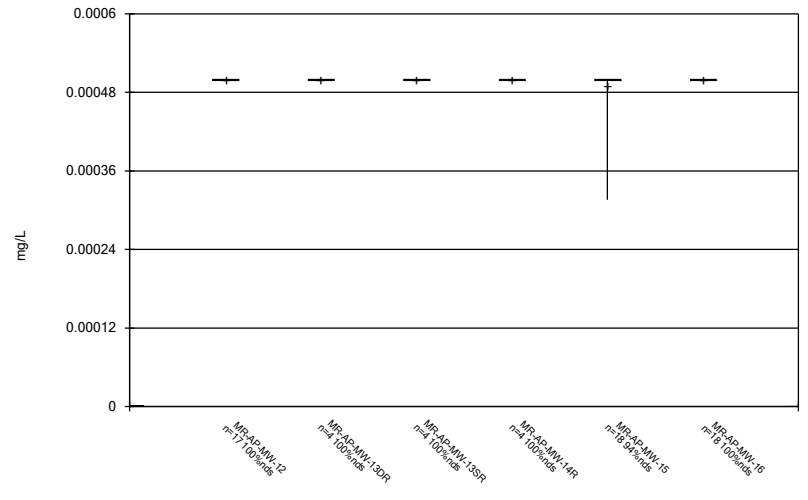
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### Box & Whiskers Plot



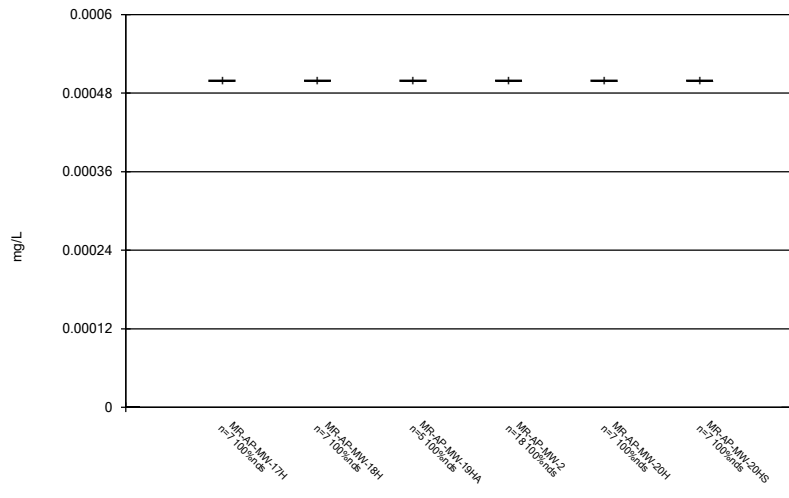
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### Box & Whiskers Plot



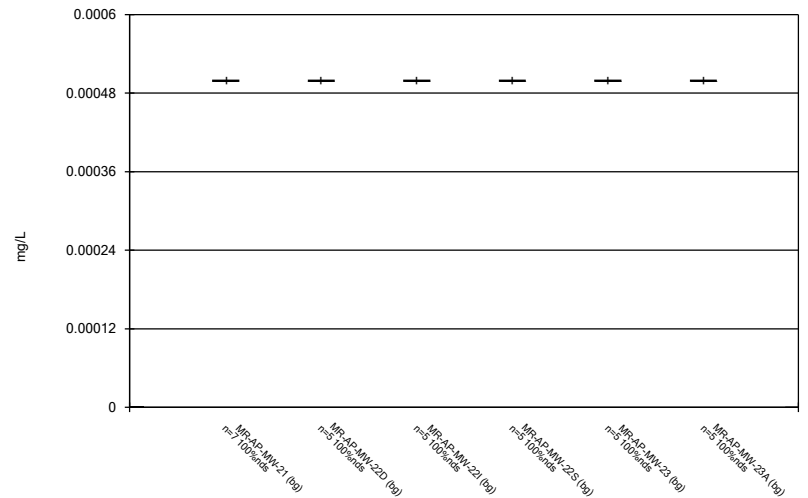
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### Box & Whiskers Plot



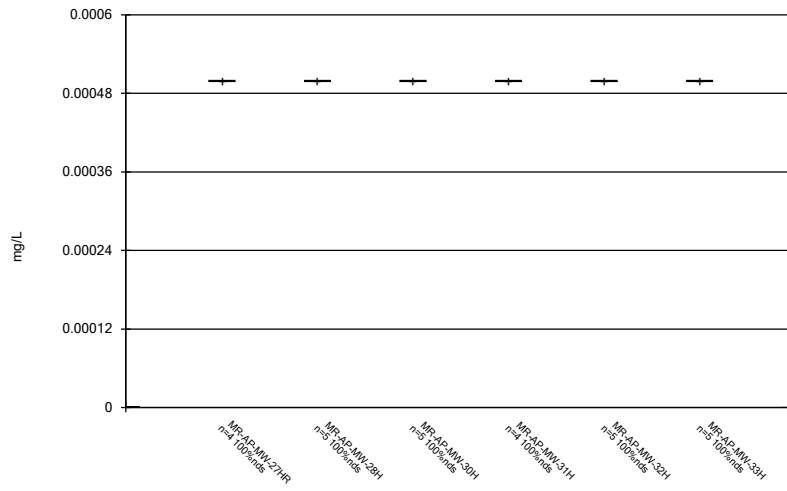
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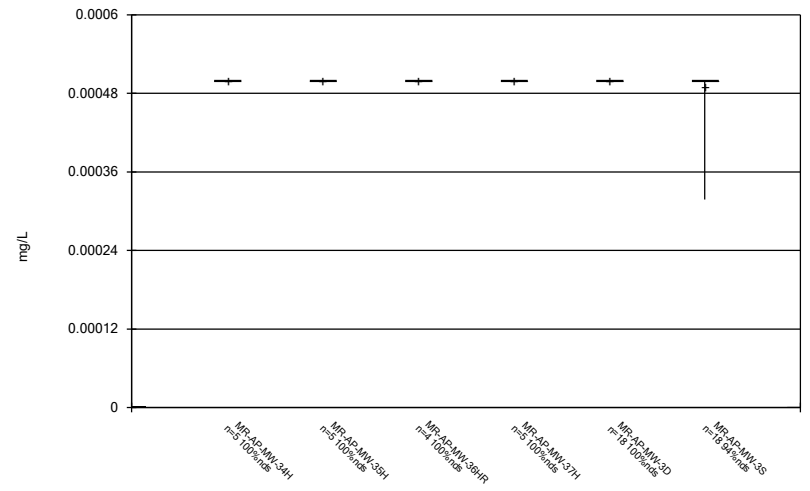
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Box & Whiskers Plot



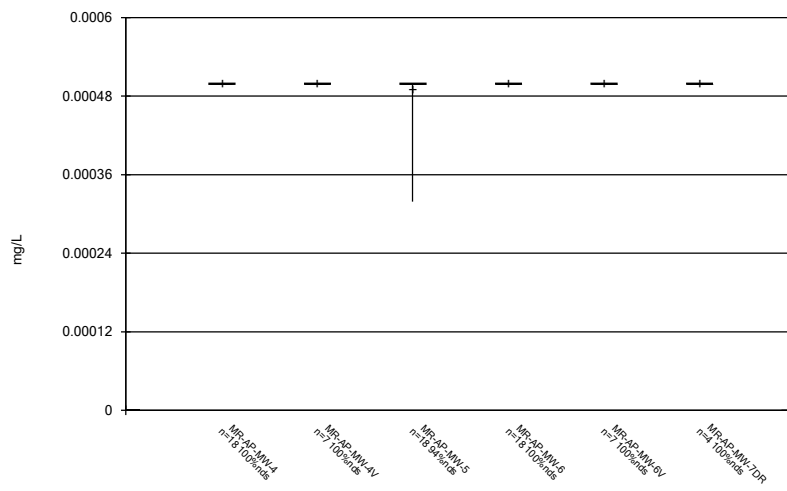
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Box & Whiskers Plot



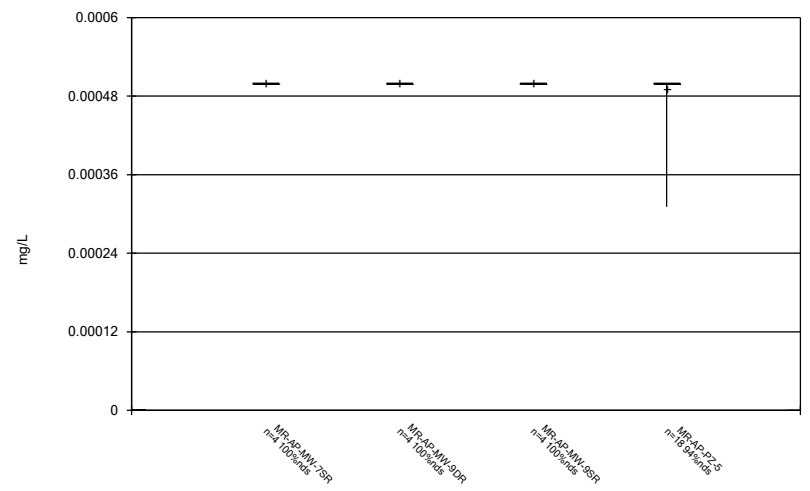
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Box & Whiskers Plot



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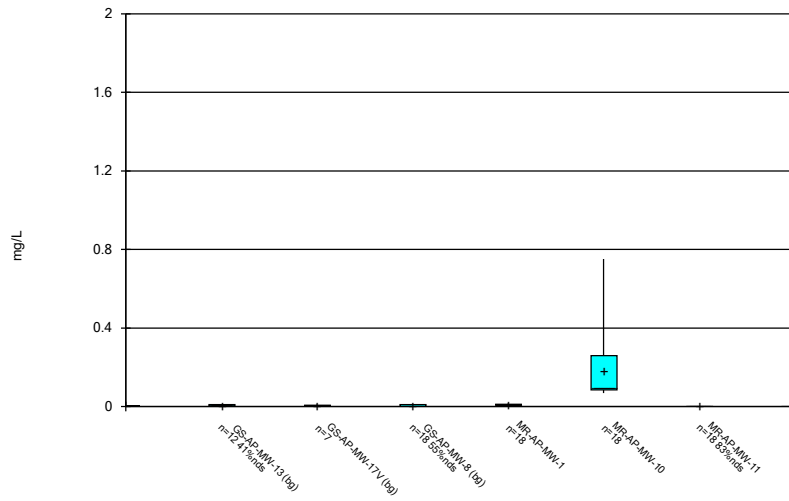
Box & Whiskers Plot



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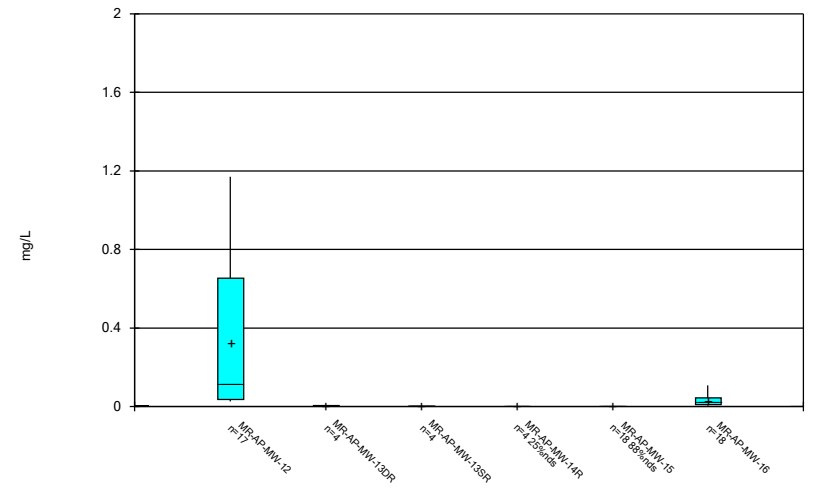


### Box & Whiskers Plot



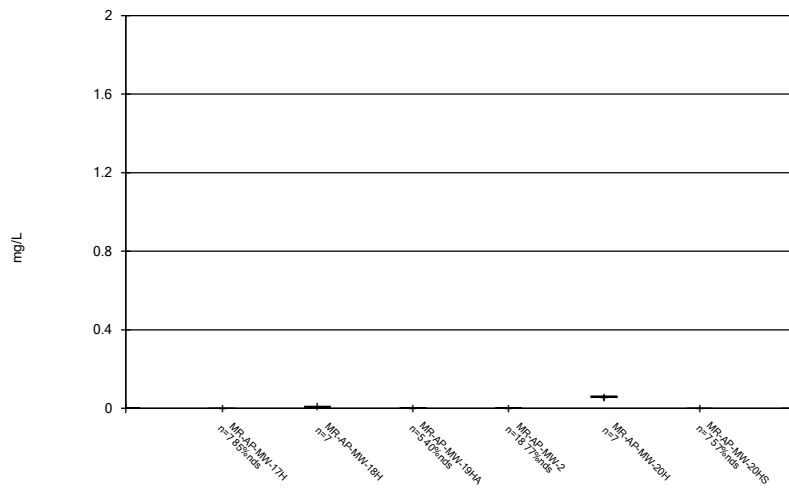
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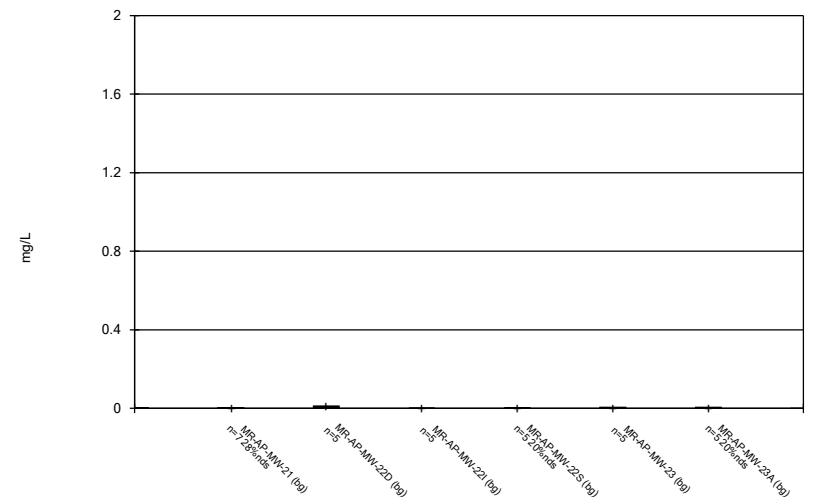
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### Box & Whiskers Plot



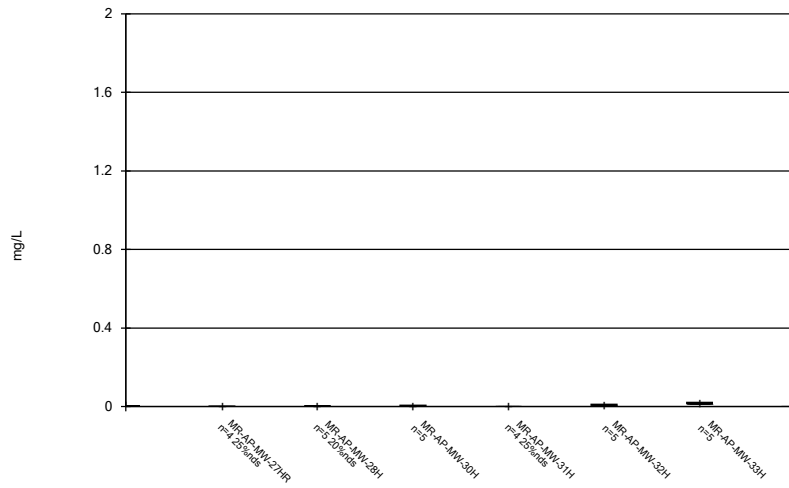
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### Box & Whiskers Plot



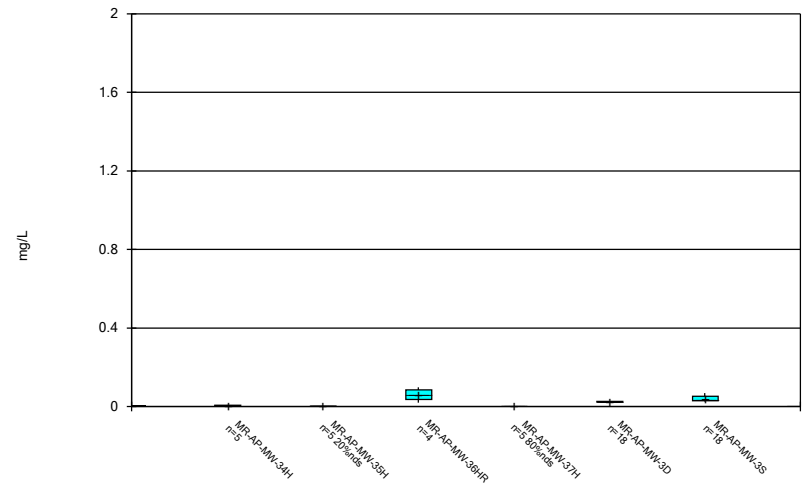
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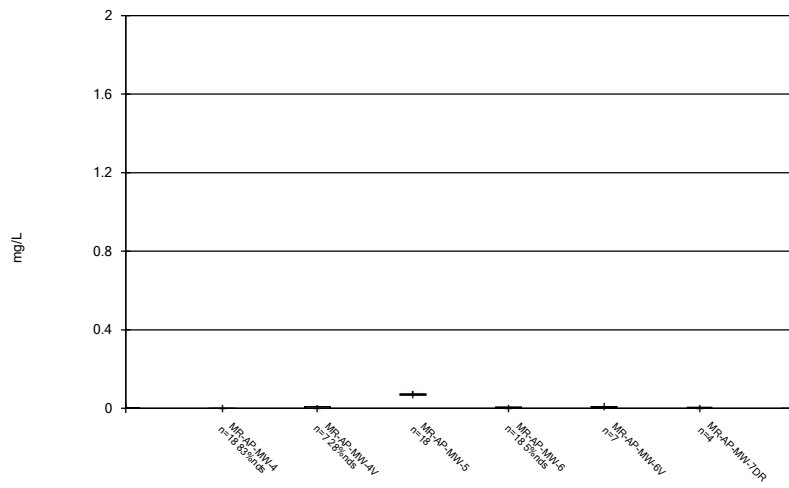
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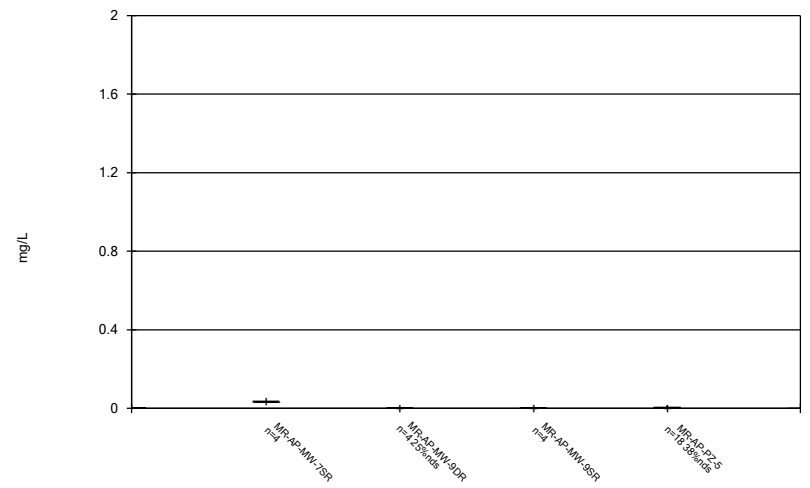
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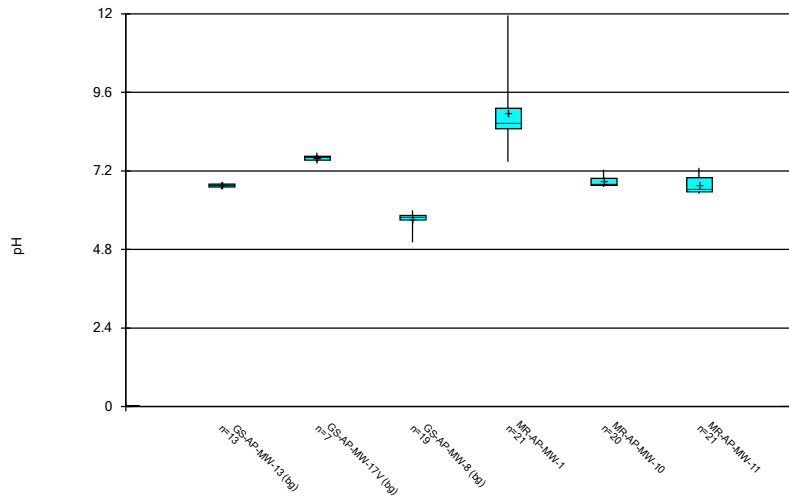
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### Box & Whiskers Plot



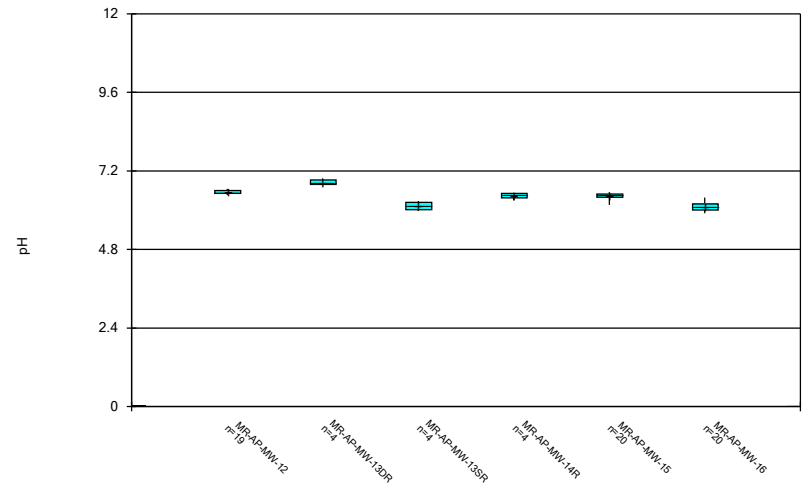
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### Box & Whiskers Plot



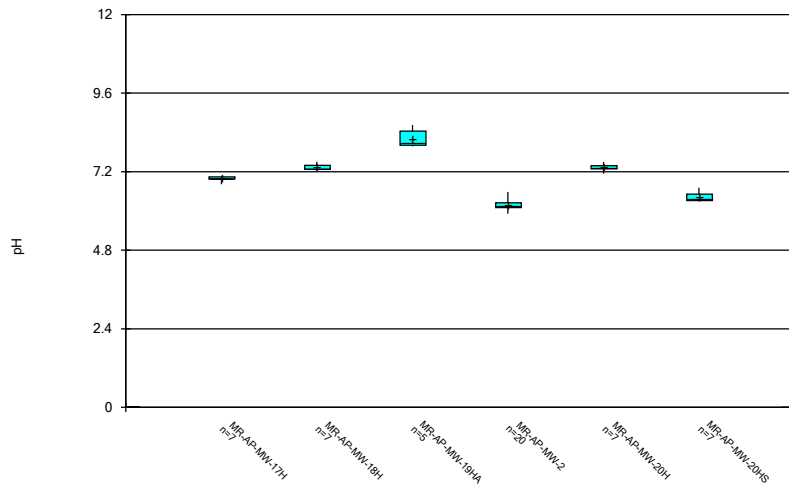
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### Box & Whiskers Plot



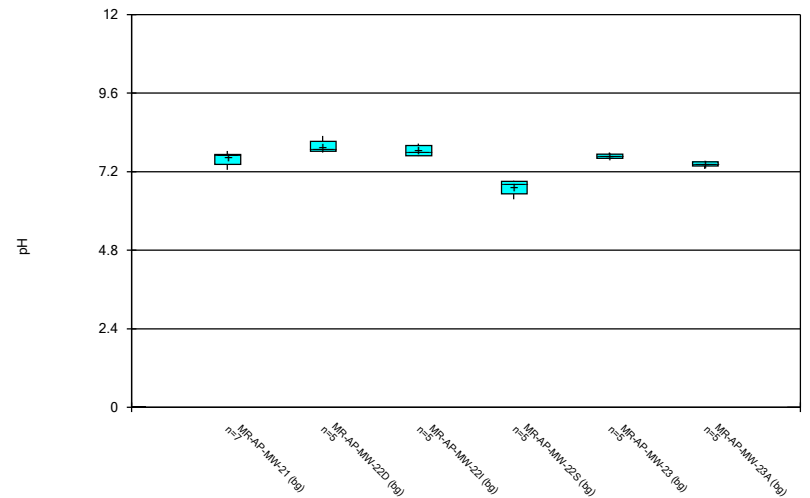
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### Box & Whiskers Plot



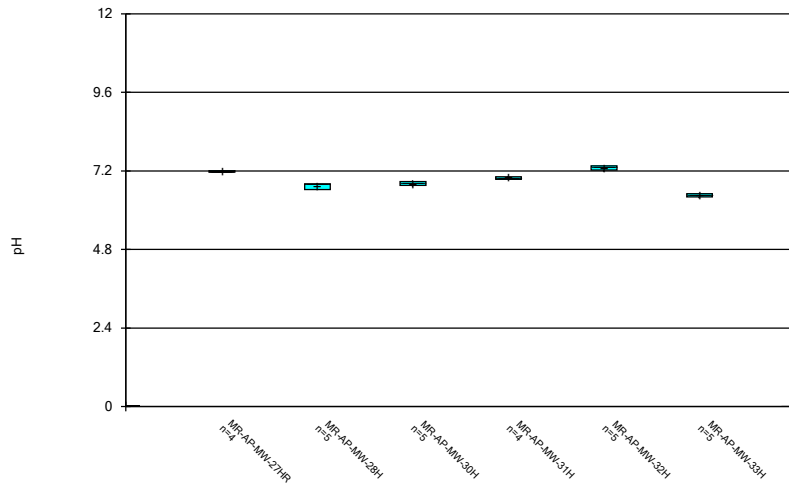
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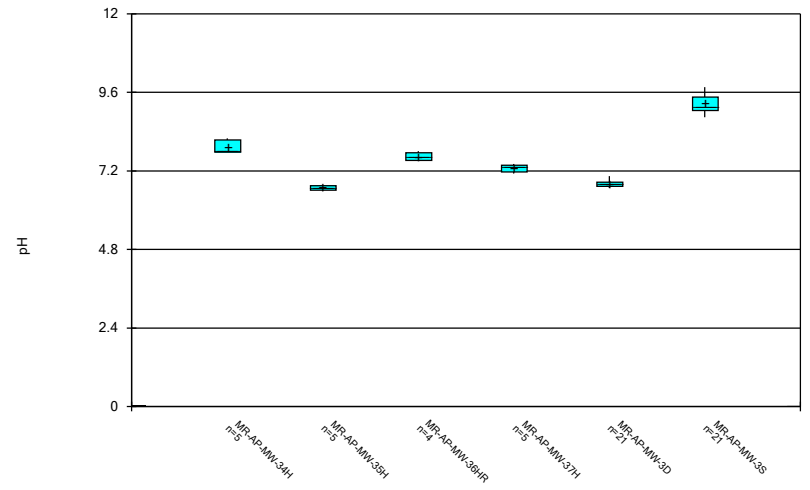
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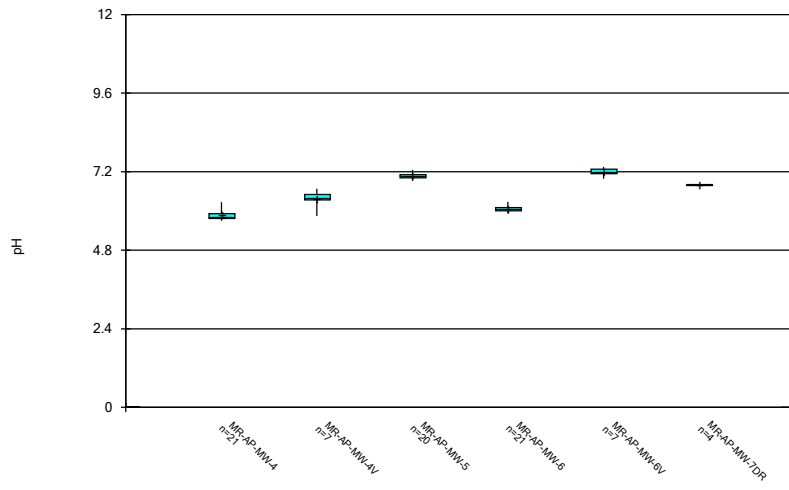
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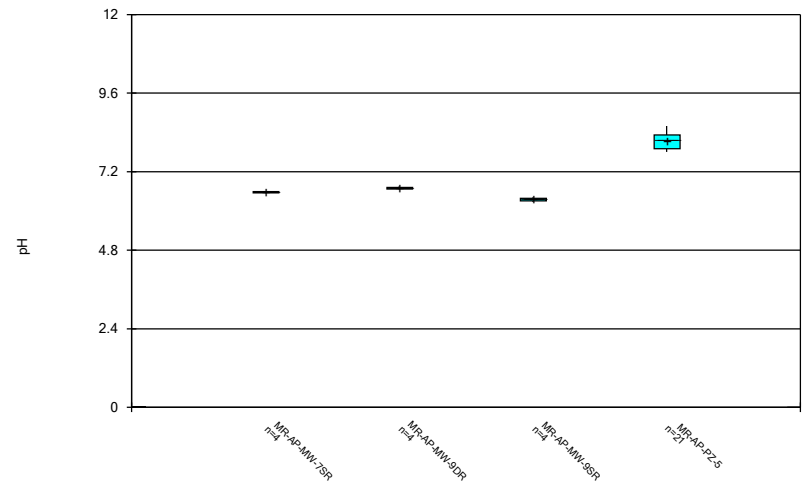
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### Box & Whiskers Plot



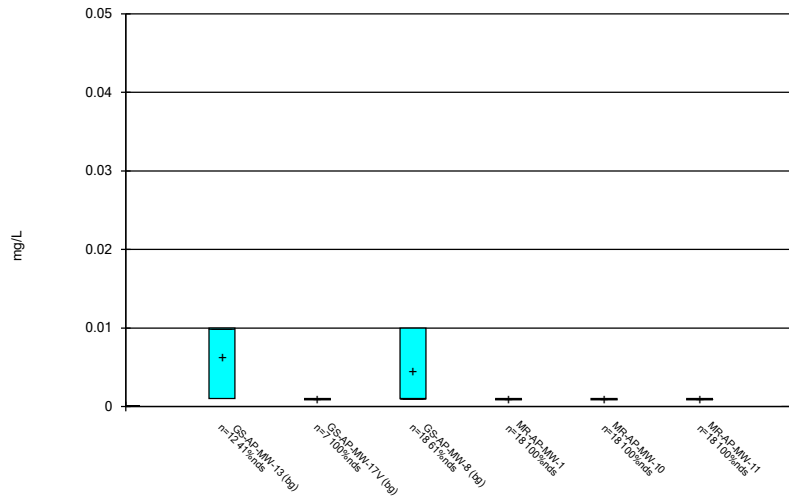
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### Box & Whiskers Plot



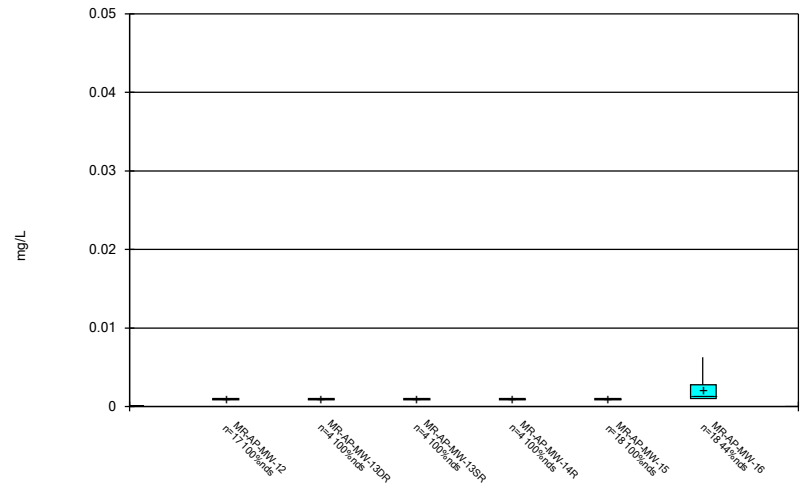
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### Box & Whiskers Plot



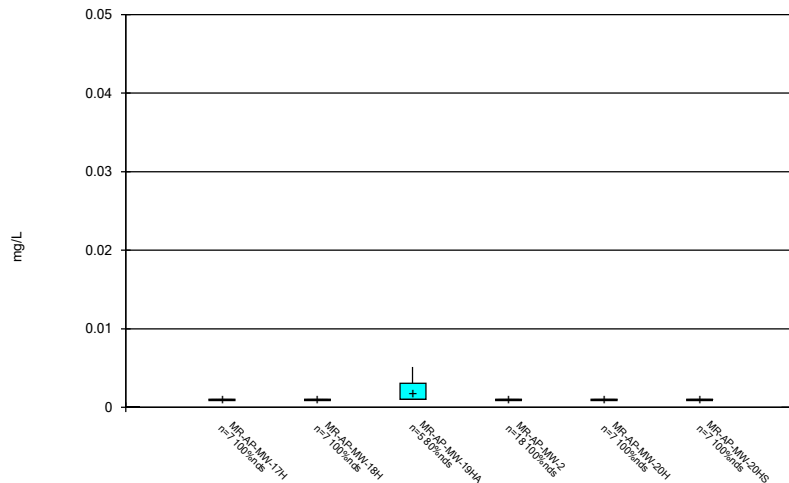
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### Box & Whiskers Plot



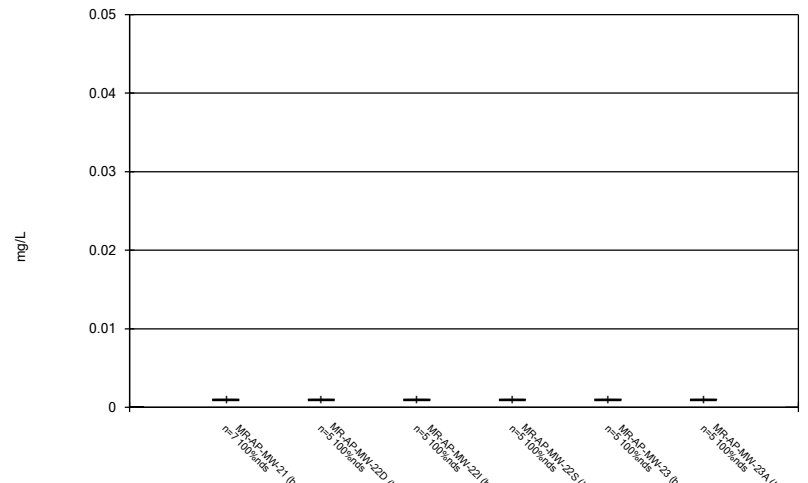
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### Box & Whiskers Plot



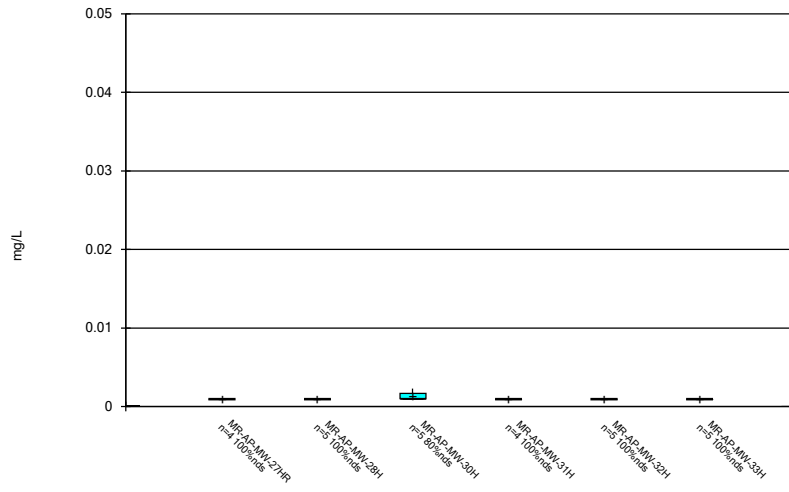
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### Box & Whiskers Plot



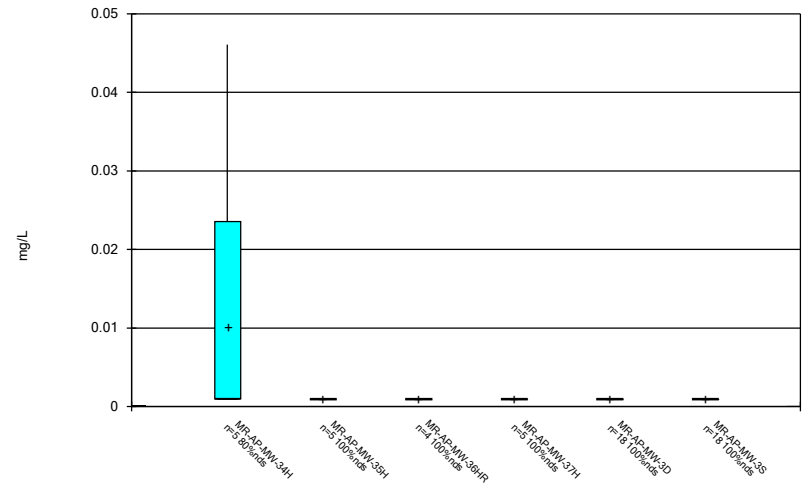
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Box & Whiskers Plot



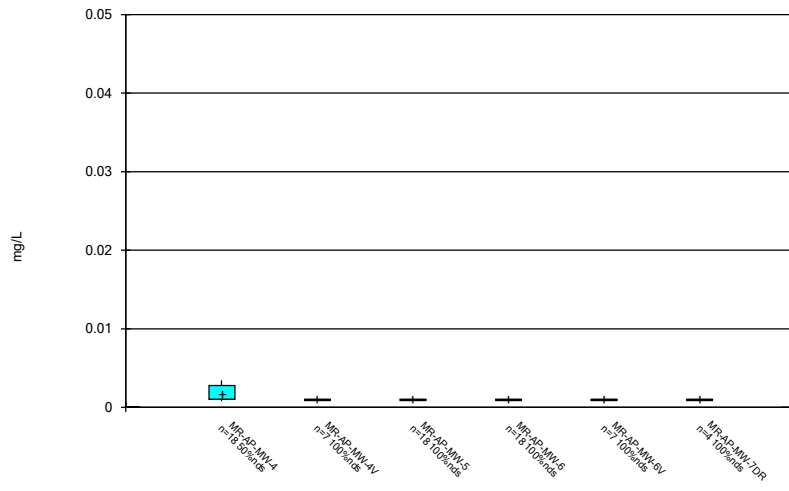
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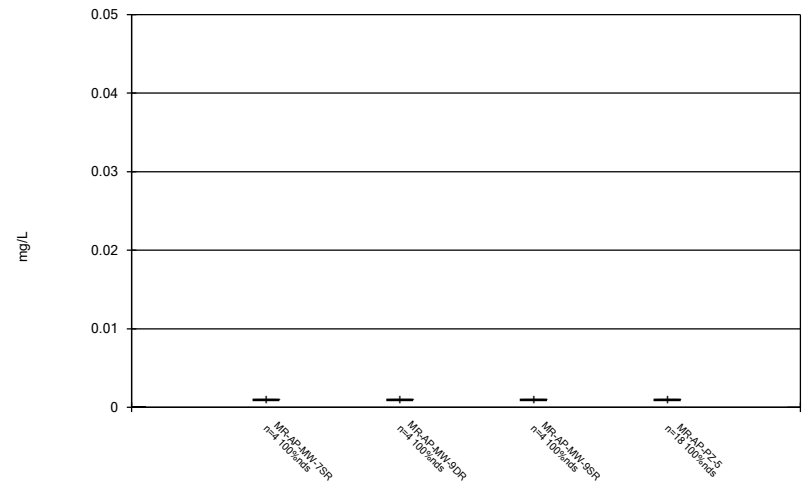
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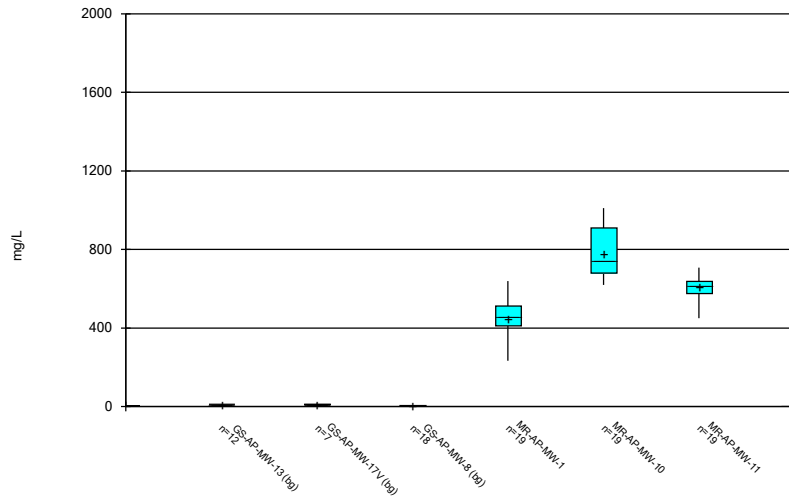
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Box & Whiskers Plot



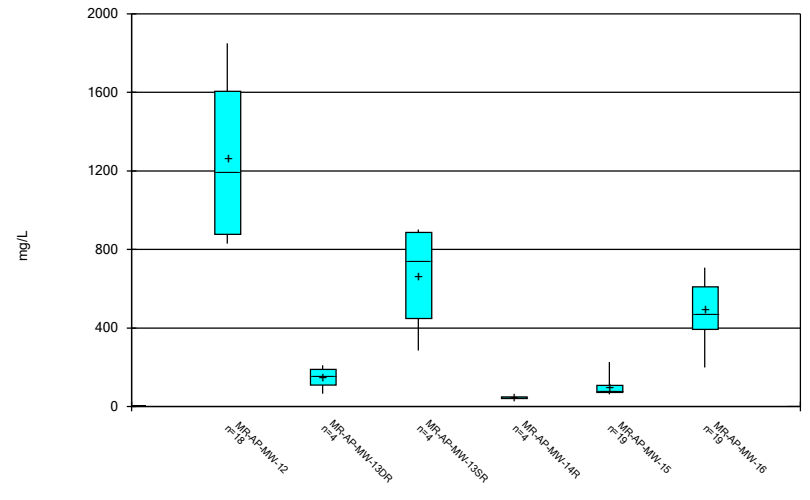
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### Box & Whiskers Plot



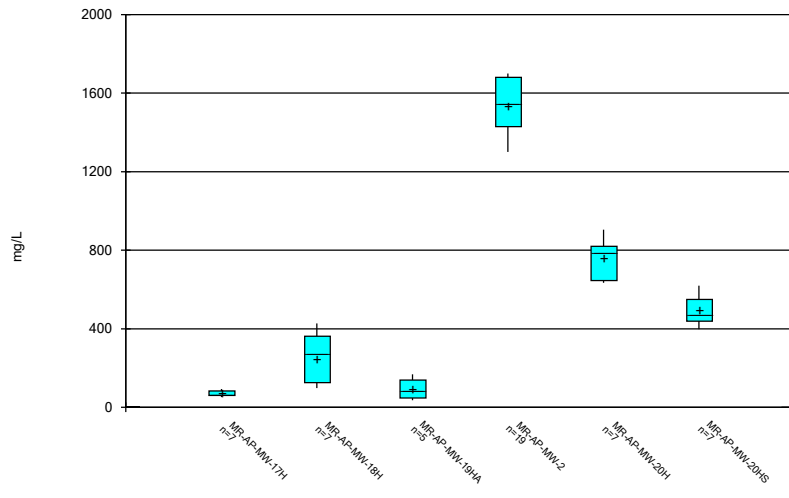
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### Box & Whiskers Plot



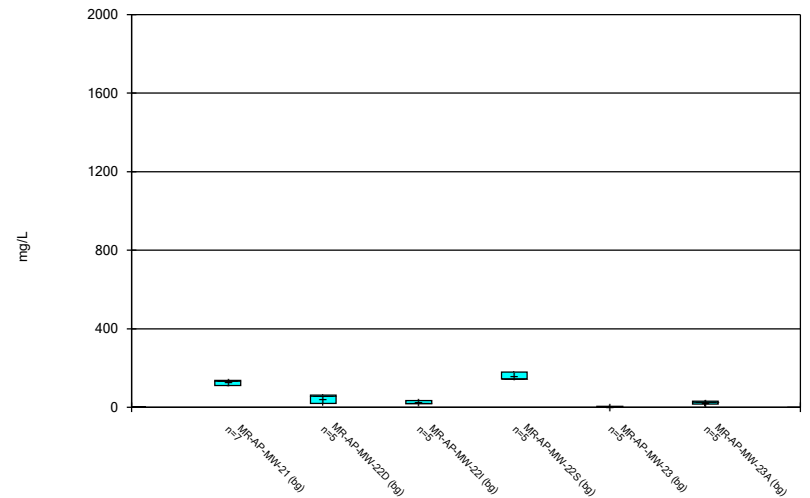
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### Box & Whiskers Plot



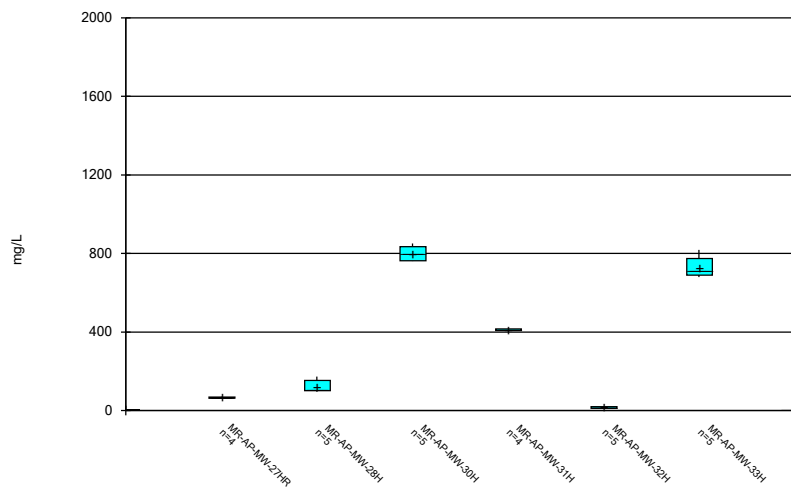
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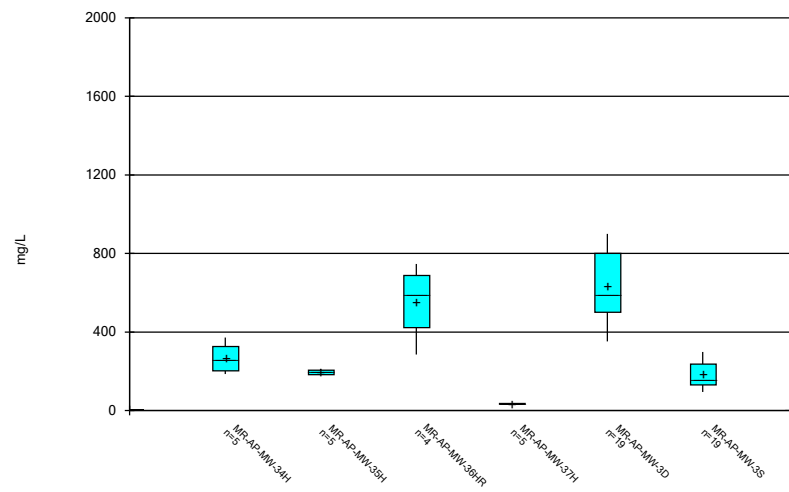
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### Box & Whiskers Plot



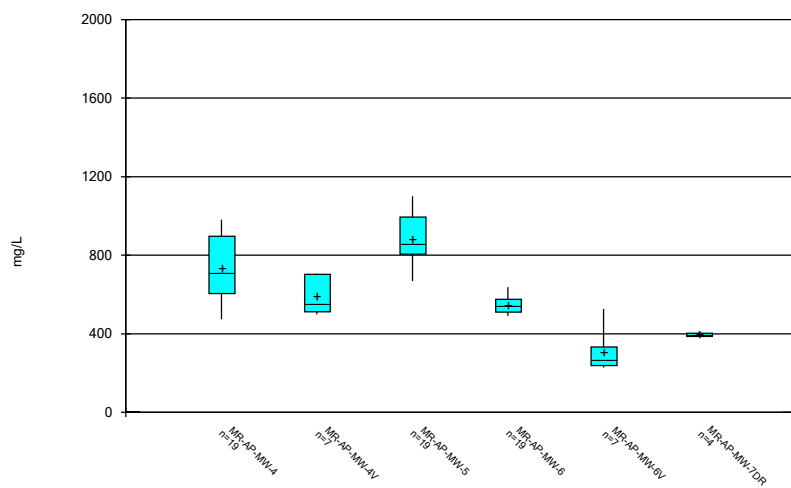
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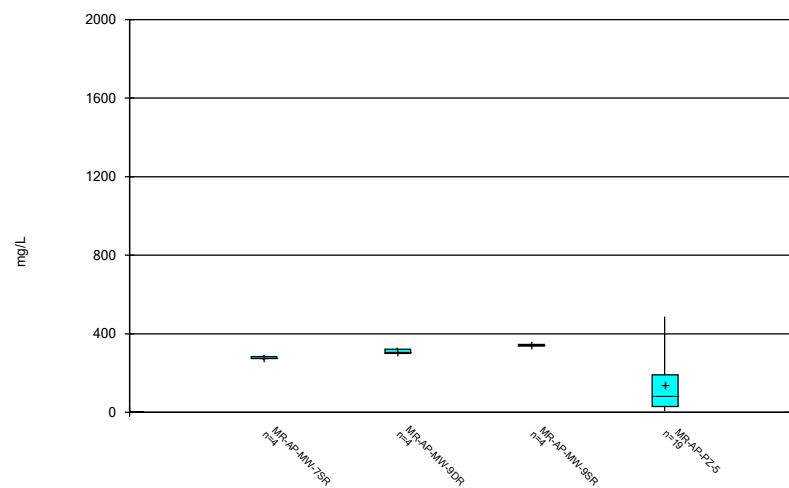
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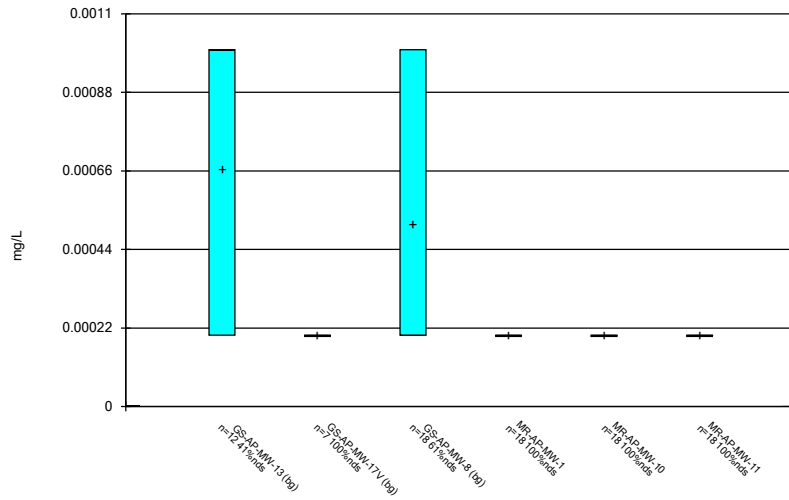
### Box & Whiskers Plot



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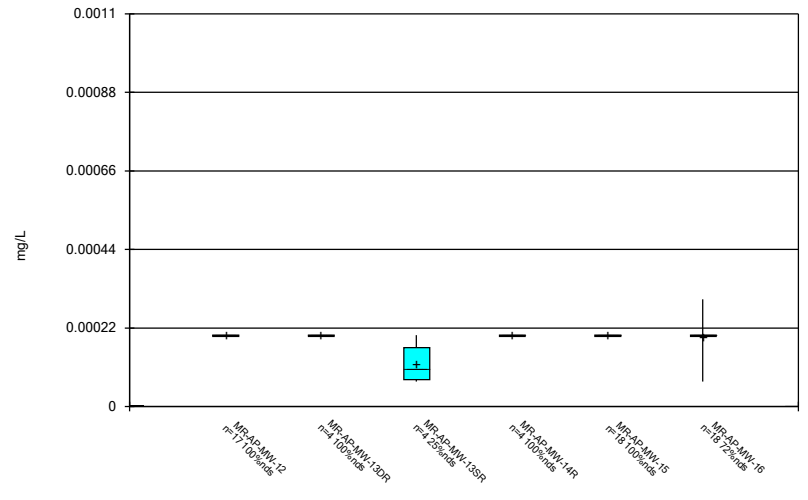


### Box & Whiskers Plot



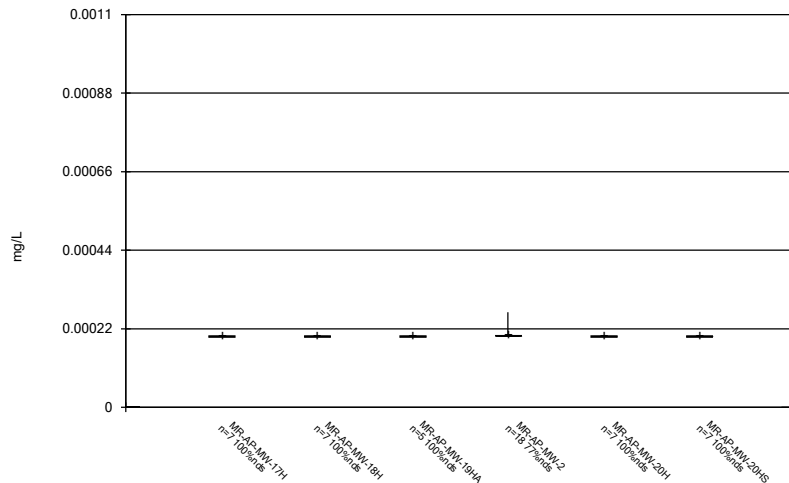
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### Box & Whiskers Plot



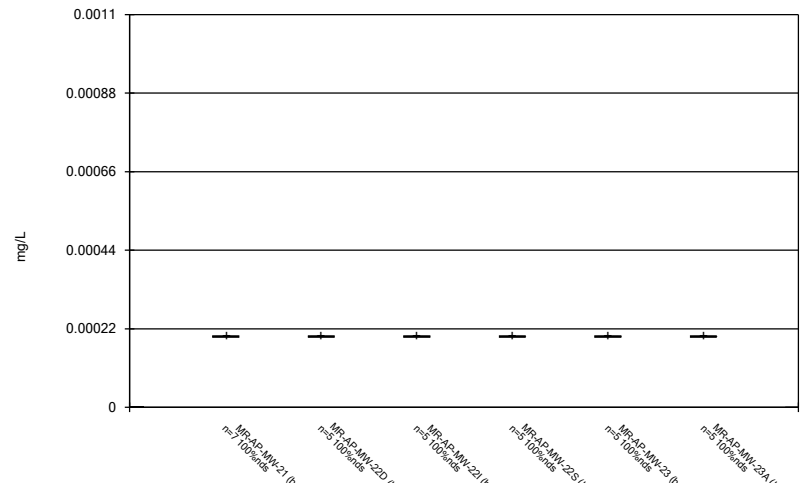
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### Box & Whiskers Plot



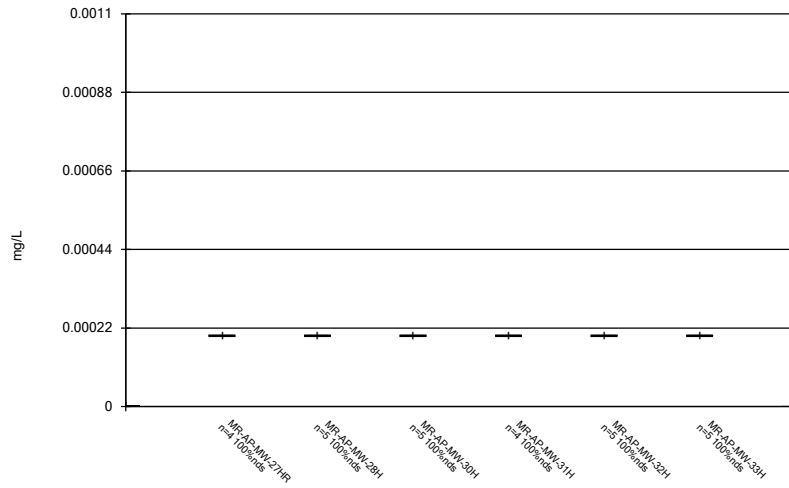
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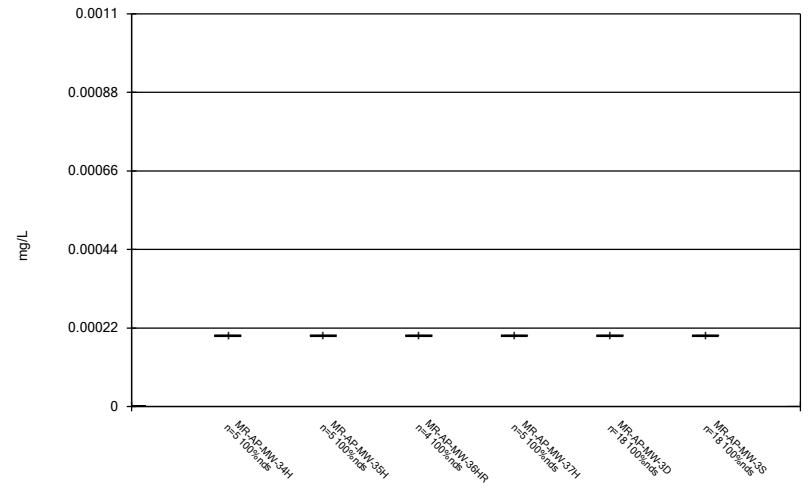
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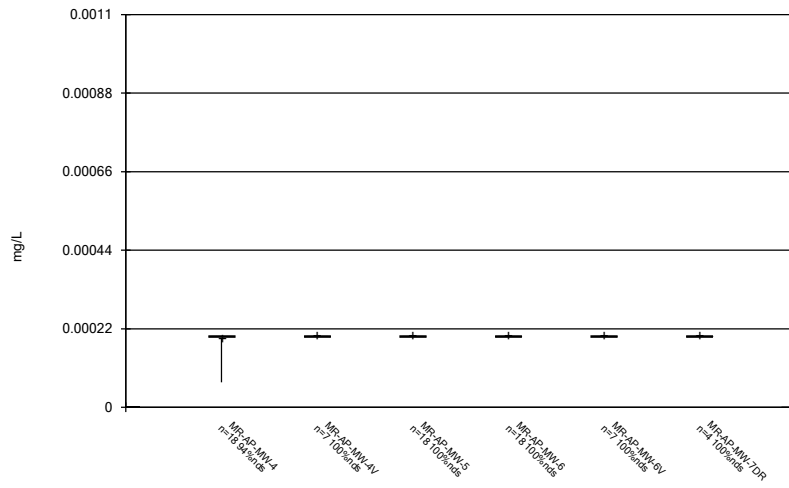
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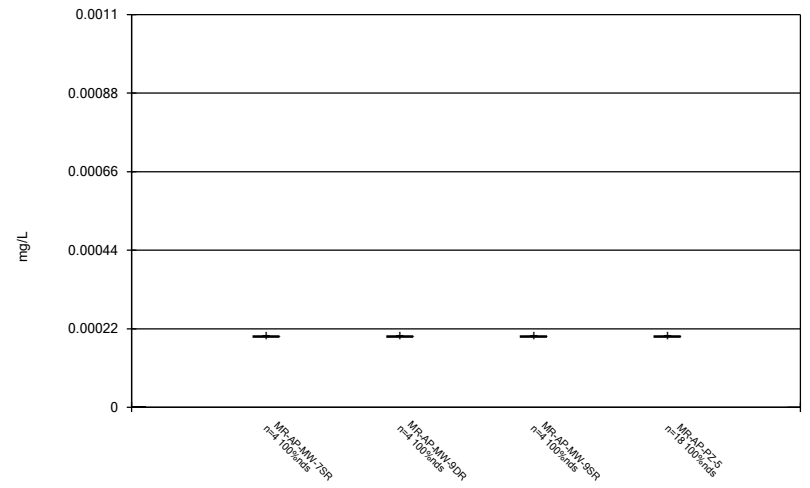
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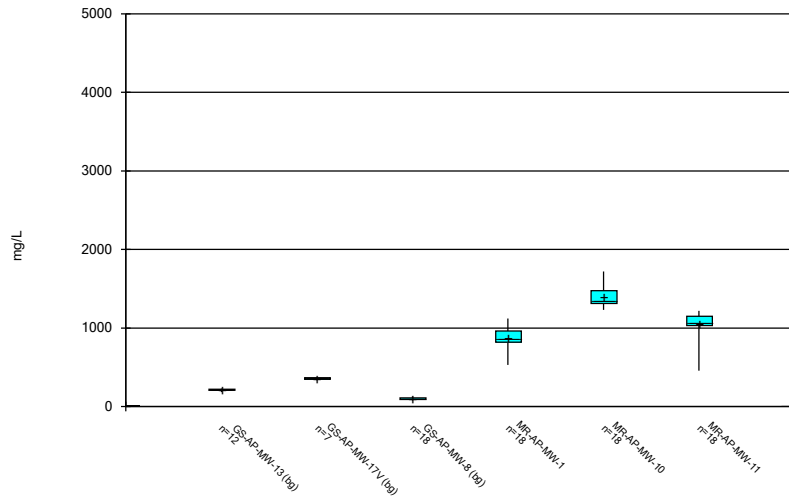
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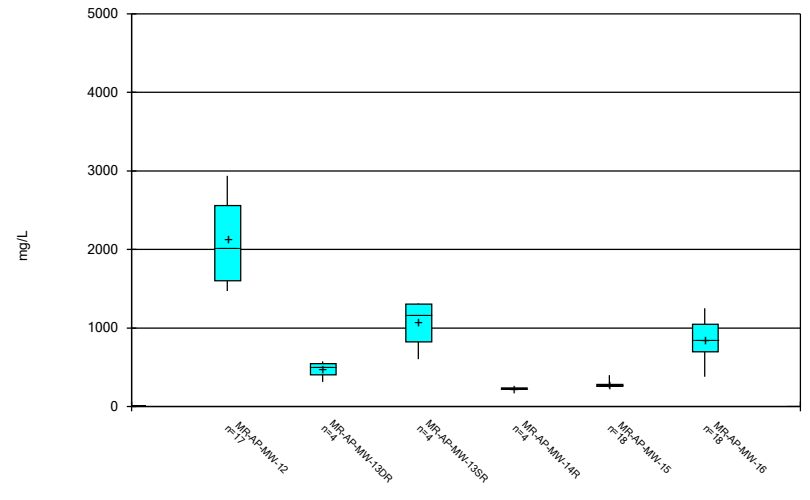
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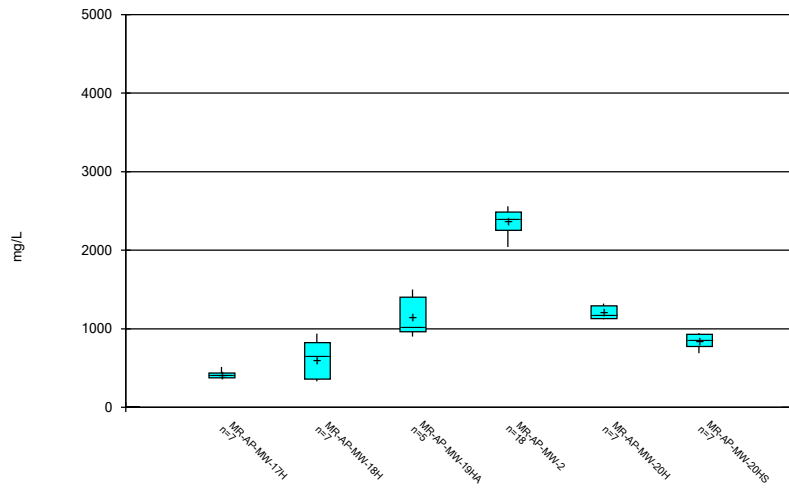
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### Box & Whiskers Plot



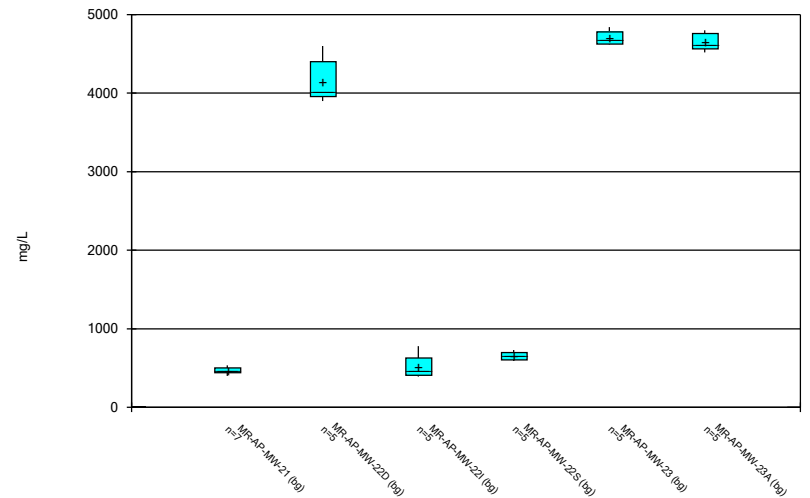
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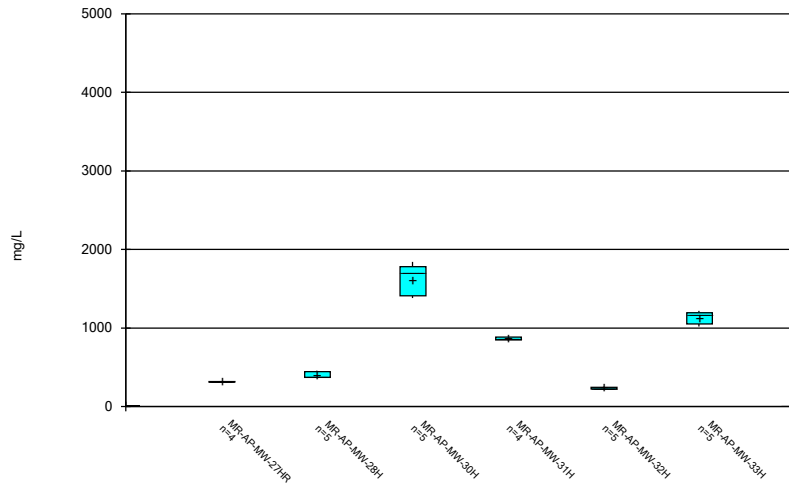
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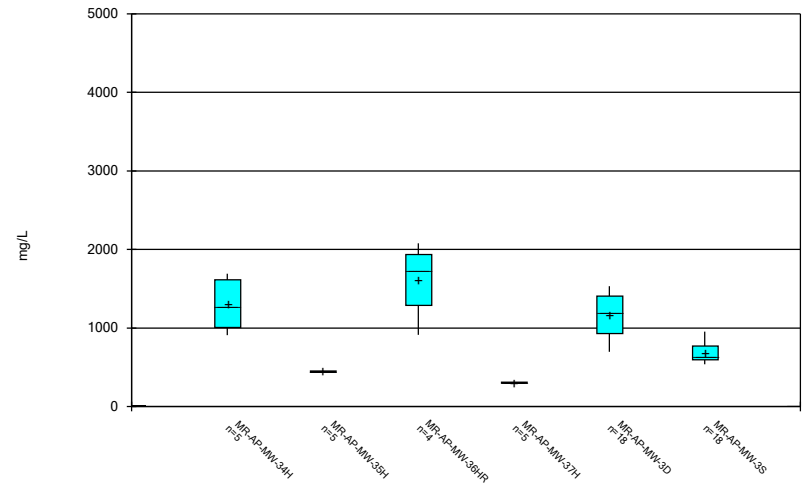
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### Box & Whiskers Plot



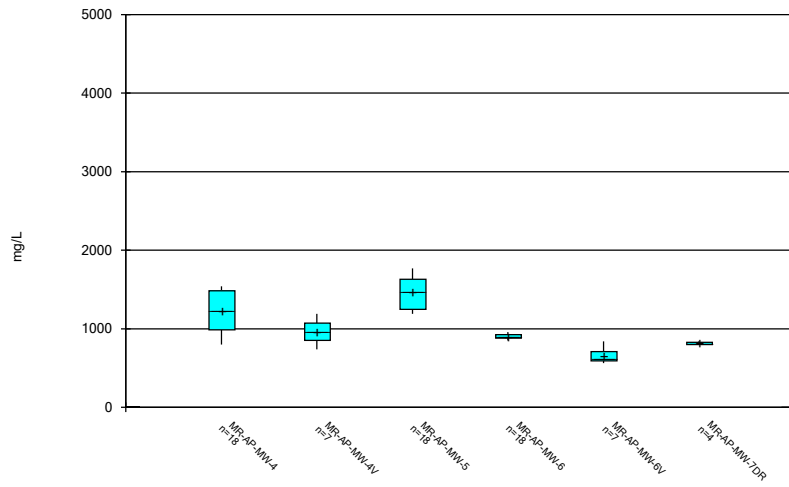
Constituent: Total Dissolved Solids [TDS] Analysis Run 5/17/2022 5:16 PM View: Time Series and Box PI  
Plant Miller Client: Southern Company Data: Miller Ash Pond

### Box & Whiskers Plot



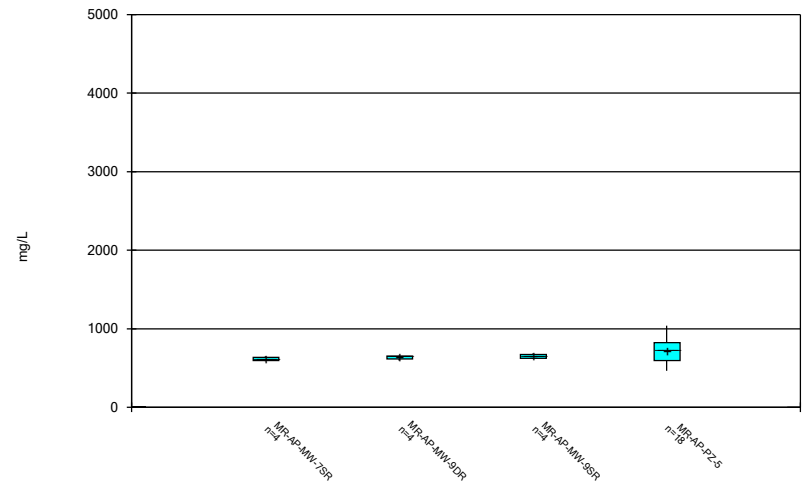
Constituent: Total Dissolved Solids [TDS] Analysis Run 5/17/2022 5:16 PM View: Time Series and Box PI  
Plant Miller Client: Southern Company Data: Miller Ash Pond

### Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 5/17/2022 5:16 PM View: Time Series and Box PI  
Plant Miller Client: Southern Company Data: Miller Ash Pond

### Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 5/17/2022 5:16 PM View: Time Series and Box PI  
Plant Miller Client: Southern Company Data: Miller Ash Pond

FIGURE C.

# Outlier Summary

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 5/18/2022, 3:24 PM

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No outliers were flagged.

FIGURE D.

# Intrawell Prediction Limits - Significant Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 5/18/2022, 1:40 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg.N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH, Field (pH)	MR-AP-MW-10	7.103	6.575	3/17/2022	7.24	Yes	18	6.839	0.1089	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-3D	6.954	6.624	3/16/2022	7.04	Yes	19	6.789	0.06919	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-4	6.067	5.624	3/15/2022	6.27	Yes	19	5.846	0.0927	0	None	No	0.0002894	Param Intra 1 of 2

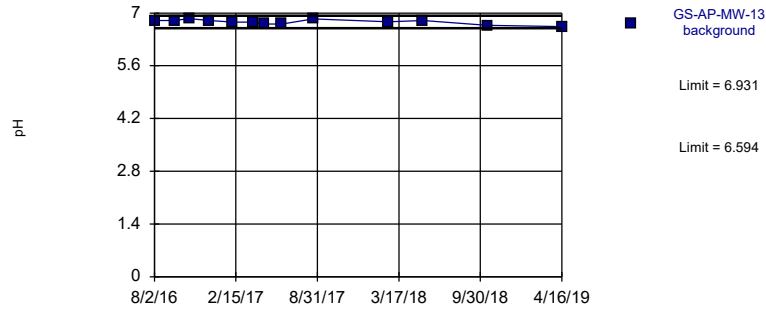


# Intrawell Prediction Limits - All Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 5/18/2022, 1:40 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg.N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH, Field (pH)	GS-AP-MW-13	6.931	6.594	n/a	1 future	n/a	13	6.762	0.06353	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	GS-AP-MW-8	6.099	5.378	2/16/2022	5.8	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	3/15/2022	8.71	No	14	8.508	0.4386	0	None	No	0.0002894	Param Intra 1 of 2
<b>pH, Field (pH)</b>	<b>MR-AP-MW-10</b>	<b>7.103</b>	<b>6.575</b>	<b>3/17/2022</b>	<b>7.24</b>	<b>Yes</b>	<b>18</b>	<b>6.839</b>	<b>0.1089</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0002894</b>	<b>Param Intra 1 of 2</b>
pH, Field (pH)	MR-AP-MW-11	7.3	6.5	3/16/2022	6.94	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	3/17/2022	6.65	No	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	3/9/2022	6.37	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	3/8/2022	6.15	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	3/16/2022	6.14	No	18	6.147	0.1135	0	None	No	0.0002894	Param Intra 1 of 2
<b>pH, Field (pH)</b>	<b>MR-AP-MW-3D</b>	<b>6.954</b>	<b>6.624</b>	<b>3/16/2022</b>	<b>7.04</b>	<b>Yes</b>	<b>19</b>	<b>6.789</b>	<b>0.06919</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0002894</b>	<b>Param Intra 1 of 2</b>
pH, Field (pH)	MR-AP-MW-3S	9.882	8.717	3/16/2022	9.05	No	19	9.299	0.2437	0	None	No	0.0002894	Param Intra 1 of 2
<b>pH, Field (pH)</b>	<b>MR-AP-MW-4</b>	<b>6.067</b>	<b>5.624</b>	<b>3/15/2022</b>	<b>6.27</b>	<b>Yes</b>	<b>19</b>	<b>5.846</b>	<b>0.0927</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0002894</b>	<b>Param Intra 1 of 2</b>
pH, Field (pH)	MR-AP-MW-5	7.268	6.893	3/14/2022	6.92	No	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	3/16/2022	6.07	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	3/14/2022	8.47	No	19	8.107	0.2188	0	None	No	0.0002894	Param Intra 1 of 2

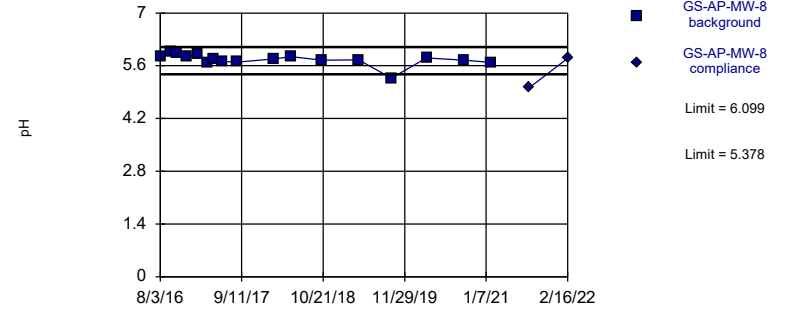
### Prediction Limit Intrawell Parametric, GS-AP-MW-13 (bg)



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 5/18/2022 1:38 PM View: All  
Plant Miller Client: Southern Company Data: Miller Ash Pond

### Within Limits Prediction Limit Intrawell Parametric

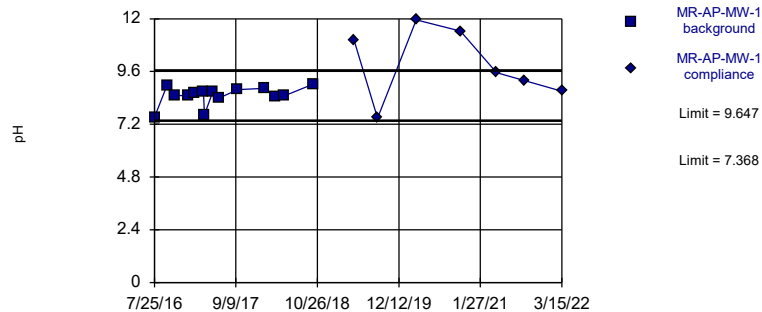


Background Data Summary (based on x^4 transformation): Mean=1110, Std. Dev.=111.7, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.865, critical = 0.851. Kappa = 2.451 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005787.

Constituent: pH, Field Analysis Run 5/18/2022 1:38 PM View: All  
Plant Miller Client: Southern Company Data: Miller Ash Pond

Within Limits

### Prediction Limit Intrawell Parametric

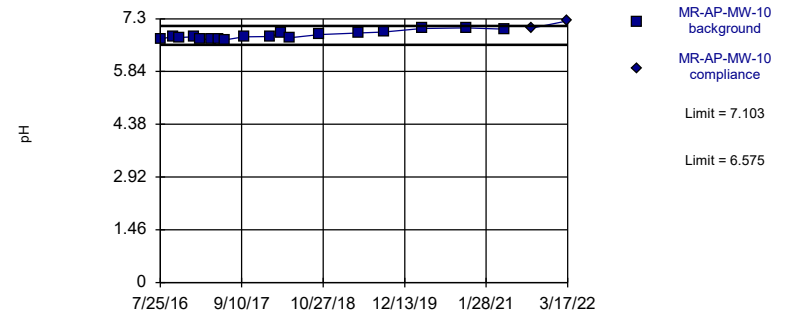


Background Data Summary: Mean=8.508, Std. Dev.=0.4386, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8311, critical = 0.825. Kappa = 2.598 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005787.

Constituent: pH, Field Analysis Run 5/18/2022 1:38 PM View: All  
Plant Miller Client: Southern Company Data: Miller Ash Pond

Exceeds Limits

### Prediction Limit Intrawell Parametric

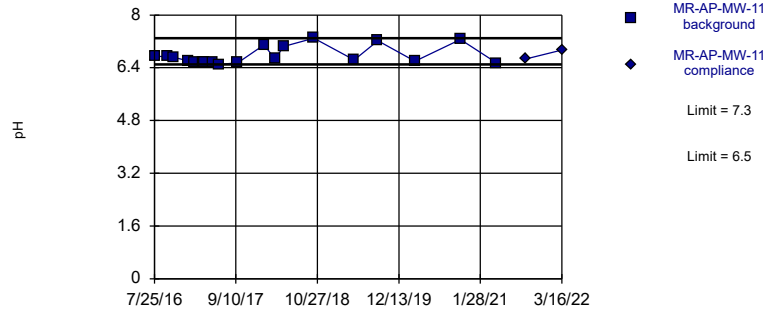


Background Data Summary: Mean=6.839, Std. Dev.=0.1089, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8977, critical = 0.858. Kappa = 2.421 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005787.

Constituent: pH, Field Analysis Run 5/18/2022 1:38 PM View: All  
Plant Miller Client: Southern Company Data: Miller Ash Pond

Within Limits

### Prediction Limit Intrawell Non-parametric

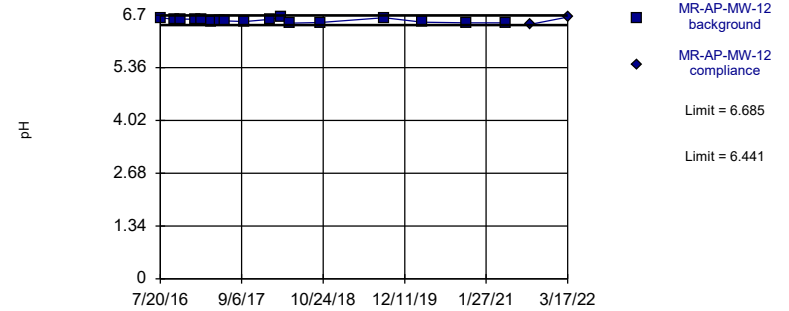


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 19 background values. Well-constituent pair annual alpha = 0.01928. Individual comparison alpha = 0.009664 (1 of 2).

Constituent: pH, Field Analysis Run 5/18/2022 1:38 PM View: All  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Within Limits

### Prediction Limit Intrawell Parametric

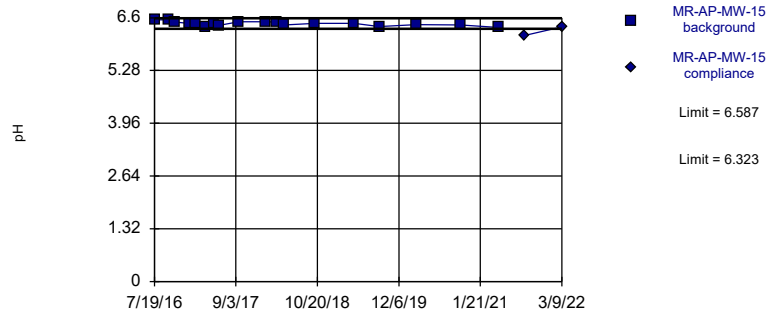


Background Data Summary: Mean=6.563, Std. Dev.=0.04982, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9366, critical = 0.851. Kappa = 2.451 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005787.

Constituent: pH, Field Analysis Run 5/18/2022 1:38 PM View: All  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Within Limits

### Prediction Limit Intrawell Parametric

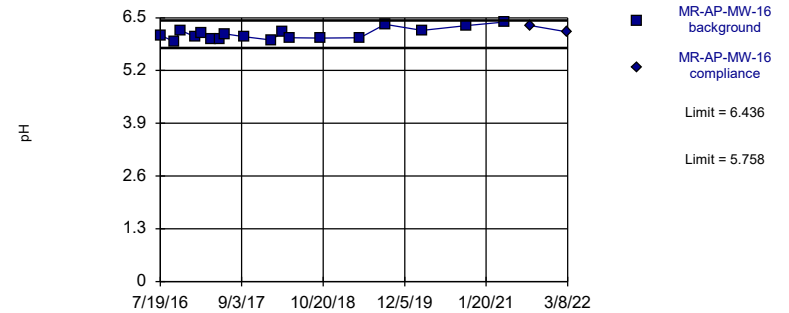


Background Data Summary: Mean=6.455, Std. Dev.=0.05437, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9619, critical = 0.858. Kappa = 2.421 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005787.

Constituent: pH, Field Analysis Run 5/18/2022 1:38 PM View: All  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Within Limits

### Prediction Limit Intrawell Parametric

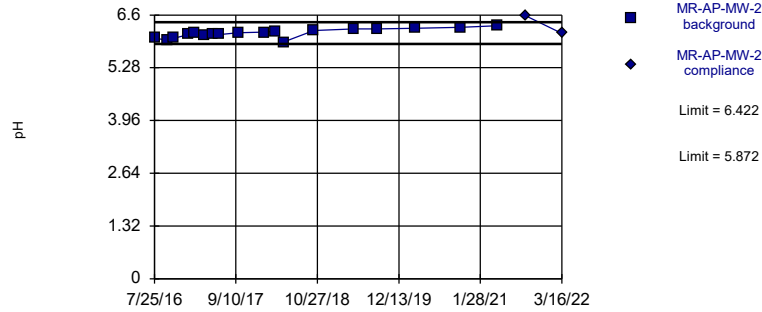


Background Data Summary: Mean=6.097, Std. Dev.=0.1401, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9156, critical = 0.858. Kappa = 2.421 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005787.

Constituent: pH, Field Analysis Run 5/18/2022 1:38 PM View: All  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Within Limits

### Prediction Limit Intrawell Parametric

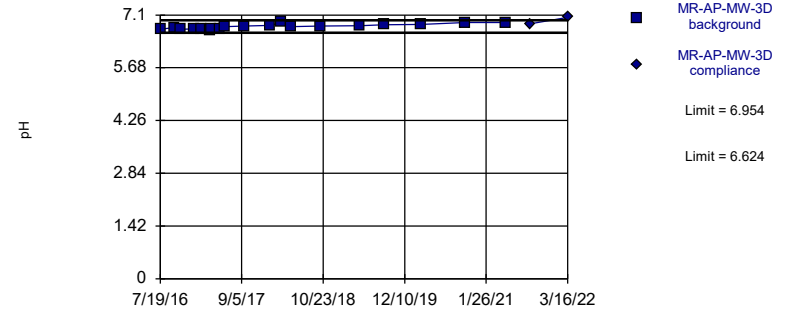


Background Data Summary: Mean=6.147, Std. Dev.=0.1135, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9708, critical = 0.858. Kappa = 2.421 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005787.

Constituent: pH, Field Analysis Run 5/18/2022 1:38 PM View: All  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Exceeds Limits

### Prediction Limit Intrawell Parametric

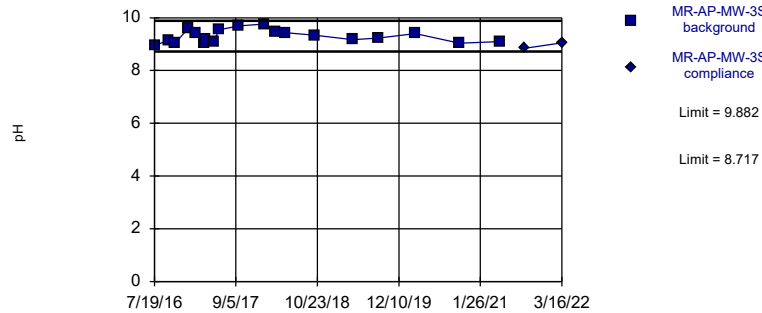


Background Data Summary: Mean=6.789, Std. Dev.=0.06919, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9396, critical = 0.863. Kappa = 2.391 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005787.

Constituent: pH, Field Analysis Run 5/18/2022 1:38 PM View: All  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Within Limits

### Prediction Limit Intrawell Parametric

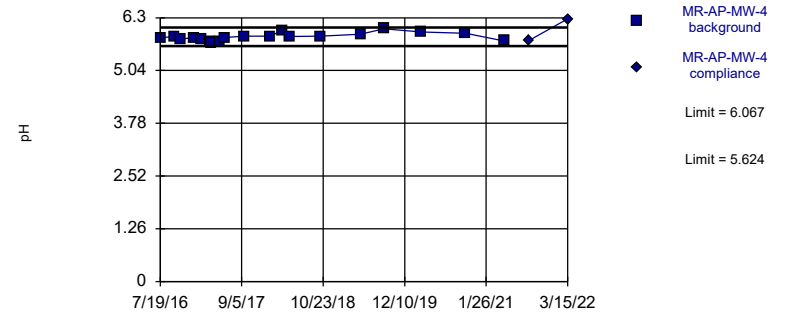


Background Data Summary: Mean=9.299, Std. Dev.=0.2437, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9381, critical = 0.863. Kappa = 2.391 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005787.

Constituent: pH, Field Analysis Run 5/18/2022 1:38 PM View: All  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Exceeds Limits

### Prediction Limit Intrawell Parametric

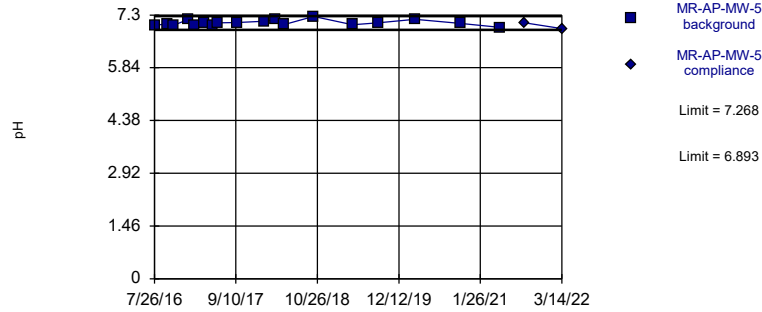


Background Data Summary: Mean=5.846, Std. Dev.=0.0927, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.965, critical = 0.863. Kappa = 2.391 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005787.

Constituent: pH, Field Analysis Run 5/18/2022 1:38 PM View: All  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Within Limits

### Prediction Limit Intrawell Parametric

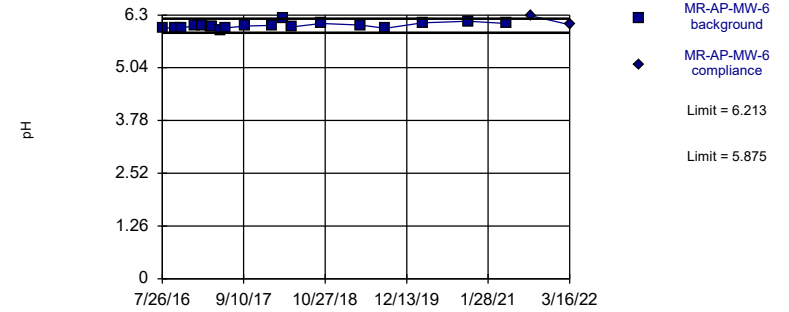


Background Data Summary: Mean=7.08, Std. Dev.=0.07743, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9459, critical = 0.858. Kappa = 2.421 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005787.

Constituent: pH, Field Analysis Run 5/18/2022 1:38 PM View: All  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Within Limits

### Prediction Limit Intrawell Parametric

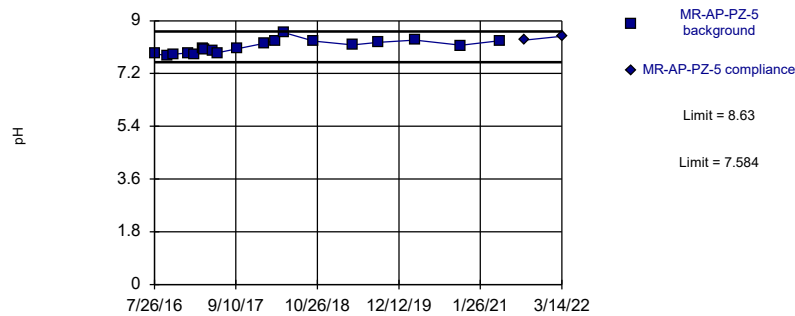


Background Data Summary: Mean=6.044, Std. Dev.=0.07073, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9349, critical = 0.863. Kappa = 2.391 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005787.

Constituent: pH, Field Analysis Run 5/18/2022 1:38 PM View: All  
 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 5/18/2022 1:38 PM View: All  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

# Prediction Limit

Constituent: pH, Field (pH) Analysis Run 5/18/2022 1:40 PM View: All

Plant Miller Client: Southern Company Data: Miller Ash Pond

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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 5/18/2022 1:40 PM View: All

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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

# Prediction Limit

Constituent: pH, Field (pH) Analysis Run 5/18/2022 1:40 PM View: All

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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



# Prediction Limit

Constituent: pH, Field (pH) Analysis Run 5/18/2022 1:40 PM View: All

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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

# Prediction Limit

Constituent: pH, Field (pH) Analysis Run 5/18/2022 1:40 PM View: All

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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

# Prediction Limit

Constituent: pH, Field (pH) Analysis Run 5/18/2022 1:40 PM View: All

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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

# Prediction Limit

Constituent: pH, Field (pH) Analysis Run 5/18/2022 1:40 PM View: All

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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

# Prediction Limit

Constituent: pH, Field (pH) Analysis Run 5/18/2022 1:40 PM View: All

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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

# Prediction Limit

Constituent: pH, Field (pH) Analysis Run 5/18/2022 1:40 PM View: All

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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

# Prediction Limit

Constituent: pH, Field (pH) Analysis Run 5/18/2022 1:40 PM View: All

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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

# Prediction Limit

Constituent: pH, Field (pH) Analysis Run 5/18/2022 1:40 PM View: All

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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



# Prediction Limit

Constituent: pH, Field (pH) Analysis Run 5/18/2022 1:40 PM View: All

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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

# Prediction Limit

Constituent: pH, Field (pH) Analysis Run 5/18/2022 1:40 PM View: All

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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

# Prediction Limit

Constituent: pH, Field (pH) Analysis Run 5/18/2022 1:40 PM View: All

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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

# Prediction Limit

Constituent: pH, Field (pH) Analysis Run 5/18/2022 1:40 PM View: All

Plant Miller Client: Southern Company Data: Miller Ash Pond

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	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

FIGURE E.

# Interwell Prediction Limits - Significant Results

Plant Miller    Client: Southern Company    Data: Miller Ash Pond    Printed 5/18/2022, 1:49 PM

Constituent	Well	Upper Lim.	Date	Obsrv.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	MR-AP-MW-10	0.101	3/17/2022	5.81	Yes	44	n/a	n/a	36.36	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-12	0.101	3/17/2022	7.07	Yes	44	n/a	n/a	36.36	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-15	0.101	3/9/2022	0.445	Yes	44	n/a	n/a	36.36	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-16	0.101	3/8/2022	2.13	Yes	44	n/a	n/a	36.36	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-2	0.101	3/16/2022	0.165	Yes	44	n/a	n/a	36.36	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-3D	0.101	3/16/2022	0.428	Yes	44	n/a	n/a	36.36	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-3S	0.101	3/16/2022	0.276	Yes	44	n/a	n/a	36.36	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-4	0.101	3/15/2022	0.423	Yes	44	n/a	n/a	36.36	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-5	0.101	3/14/2022	0.864	Yes	44	n/a	n/a	36.36	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-6	0.101	3/16/2022	0.887	Yes	44	n/a	n/a	36.36	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-PZ-5	0.101	3/14/2022	0.245	Yes	44	n/a	n/a	36.36	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-1	63.5	3/15/2022	98.1	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-10	63.5	3/17/2022	76.4	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-11	63.5	3/16/2022	173	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-12	63.5	3/17/2022	102	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-16	63.5	3/8/2022	154	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-2	63.5	3/16/2022	239	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-3D	63.5	3/16/2022	116	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-4	63.5	3/15/2022	159	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-5	63.5	3/14/2022	228	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-6	63.5	3/16/2022	160	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MR-AP-MW-15	14.6	3/9/2022	17.6	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MR-AP-MW-3D	14.6	3/16/2022	15	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MR-AP-MW-3S	14.6	3/16/2022	79.4	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MR-AP-MW-4	14.6	3/15/2022	19	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MR-AP-MW-5	14.6	3/14/2022	26.1	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MR-AP-MW-6	14.6	3/16/2022	33.2	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MR-AP-PZ-5	14.6	3/14/2022	30.7	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	MR-AP-MW-10	0.2991	3/17/2022	1.86	Yes	46	0.1511	0.06996	0	None	No	0.0005787	Param Inter 1 of 2
Fluoride, total (mg/L)	MR-AP-MW-12	0.2991	3/17/2022	1.21	Yes	46	0.1511	0.06996	0	None	No	0.0005787	Param Inter 1 of 2
Fluoride, total (mg/L)	MR-AP-MW-3D	0.2991	3/16/2022	0.388	Yes	46	0.1511	0.06996	0	None	No	0.0005787	Param Inter 1 of 2
Fluoride, total (mg/L)	MR-AP-MW-3S	0.2991	3/16/2022	0.309	Yes	46	0.1511	0.06996	0	None	No	0.0005787	Param Inter 1 of 2
Fluoride, total (mg/L)	MR-AP-MW-5	0.2991	3/14/2022	0.405	Yes	46	0.1511	0.06996	0	None	No	0.0005787	Param Inter 1 of 2
Fluoride, total (mg/L)	MR-AP-PZ-5	0.2991	3/14/2022	2.28	Yes	46	0.1511	0.06996	0	None	No	0.0005787	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-1	139	3/15/2022	512	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-10	139	3/17/2022	735	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-11	139	3/16/2022	707	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-12	139	3/17/2022	1730	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-16	139	3/8/2022	530	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-2	139	3/16/2022	1630	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-3D	139	3/16/2022	352	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-3S	139	3/16/2022	227	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-4	139	3/15/2022	475	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-5	139	3/14/2022	810	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-6	139	3/16/2022	587	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-1	534	3/15/2022	897	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-10	534	3/17/2022	1230	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-11	534	3/16/2022	1120	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-12	534	3/17/2022	2580	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-16	534	3/8/2022	738	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-2	534	3/16/2022	2420	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-3D	534	3/16/2022	698	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-3S	534	3/16/2022	698	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-4	534	3/15/2022	800	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-5	534	3/14/2022	1190	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-6	534	3/16/2022	894	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-PZ-5	534	3/14/2022	748	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2

# Interwell Prediction Limits - All Results

Plant Miller    Client: Southern Company    Data: Miller Ash Pond    Printed 5/18/2022, 1:49 PM

Constituent	Well	Upper Lim.	Date	Obsrv.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	MR-AP-MW-1	0.101	3/15/2022	0.0528J	No	44	n/a	n/a	36.36	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
<b>Boron, total (mg/L)</b>	<b>MR-AP-MW-10</b>	<b>0.101</b>	<b>3/17/2022</b>	<b>5.81</b>	<b>Yes</b>	<b>44</b>	<b>n/a</b>	<b>n/a</b>	<b>36.36</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0009449</b>	<b>NP Inter (normality) 1 of 2</b>
Boron, total (mg/L)	MR-AP-MW-11	0.101	3/16/2022	0.0357J	No	44	n/a	n/a	36.36	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-12	0.101	3/17/2022	7.07	Yes	44	n/a	n/a	36.36	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-15	0.101	3/9/2022	0.445	Yes	44	n/a	n/a	36.36	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-16	0.101	3/8/2022	2.13	Yes	44	n/a	n/a	36.36	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-2	0.101	3/16/2022	0.165	Yes	44	n/a	n/a	36.36	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-3D	0.101	3/16/2022	0.428	Yes	44	n/a	n/a	36.36	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-3S	0.101	3/16/2022	0.276	Yes	44	n/a	n/a	36.36	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-4	0.101	3/15/2022	0.423	Yes	44	n/a	n/a	36.36	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-5	0.101	3/14/2022	0.864	Yes	44	n/a	n/a	36.36	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-6	0.101	3/16/2022	0.887	Yes	44	n/a	n/a	36.36	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-PZ-5	0.101	3/14/2022	0.245	Yes	44	n/a	n/a	36.36	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-1	63.5	3/15/2022	98.1	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-10	63.5	3/17/2022	76.4	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-11	63.5	3/16/2022	173	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-12	63.5	3/17/2022	102	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-15	63.5	3/9/2022	39.1	No	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-16	63.5	3/8/2022	154	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-2	63.5	3/16/2022	239	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-3D	63.5	3/16/2022	116	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-3S	63.5	3/16/2022	5.38	No	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-4	63.5	3/15/2022	159	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-5	63.5	3/14/2022	228	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-6	63.5	3/16/2022	160	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-PZ-5	63.5	3/14/2022	6.95	No	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MR-AP-MW-1	14.6	3/15/2022	10.4	No	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MR-AP-MW-10	14.6	3/17/2022	4.75	No	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MR-AP-MW-11	14.6	3/16/2022	7.08	No	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MR-AP-MW-12	14.6	3/17/2022	8.05	No	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
<b>Chloride, Total (mg/L)</b>	<b>MR-AP-MW-15</b>	<b>14.6</b>	<b>3/9/2022</b>	<b>17.6</b>	<b>Yes</b>	<b>44</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0009449</b>	<b>NP Inter (normality) 1 of 2</b>
Chloride, Total (mg/L)	MR-AP-MW-16	14.6	3/8/2022	7.81	No	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MR-AP-MW-2	14.6	3/16/2022	6.88	No	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
<b>Chloride, Total (mg/L)</b>	<b>MR-AP-MW-3D</b>	<b>14.6</b>	<b>3/16/2022</b>	<b>15</b>	<b>Yes</b>	<b>44</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0009449</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Chloride, Total (mg/L)</b>	<b>MR-AP-MW-3S</b>	<b>14.6</b>	<b>3/16/2022</b>	<b>79.4</b>	<b>Yes</b>	<b>44</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0009449</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Chloride, Total (mg/L)</b>	<b>MR-AP-MW-4</b>	<b>14.6</b>	<b>3/15/2022</b>	<b>19</b>	<b>Yes</b>	<b>44</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0009449</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Chloride, Total (mg/L)</b>	<b>MR-AP-MW-5</b>	<b>14.6</b>	<b>3/14/2022</b>	<b>26.1</b>	<b>Yes</b>	<b>44</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0009449</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Chloride, Total (mg/L)</b>	<b>MR-AP-MW-6</b>	<b>14.6</b>	<b>3/16/2022</b>	<b>33.2</b>	<b>Yes</b>	<b>44</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0009449</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Chloride, Total (mg/L)</b>	<b>MR-AP-PZ-5</b>	<b>14.6</b>	<b>3/14/2022</b>	<b>30.7</b>	<b>Yes</b>	<b>44</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0009449</b>	<b>NP Inter (normality) 1 of 2</b>
Fluoride, total (mg/L)	MR-AP-MW-1	0.2991	3/15/2022	0.142	No	46	0.1511	0.06996	0	None	No	0.0005787	Param Inter 1 of 2
<b>Fluoride, total (mg/L)</b>	<b>MR-AP-MW-10</b>	<b>0.2991</b>	<b>3/17/2022</b>	<b>1.86</b>	<b>Yes</b>	<b>46</b>	<b>0.1511</b>	<b>0.06996</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0005787</b>	<b>Param Inter 1 of 2</b>
Fluoride, total (mg/L)	MR-AP-MW-11	0.2991	3/16/2022	0.107J	No	46	0.1511	0.06996	0	None	No	0.0005787	Param Inter 1 of 2
<b>Fluoride, total (mg/L)</b>	<b>MR-AP-MW-12</b>	<b>0.2991</b>	<b>3/17/2022</b>	<b>1.21</b>	<b>Yes</b>	<b>46</b>	<b>0.1511</b>	<b>0.06996</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0005787</b>	<b>Param Inter 1 of 2</b>
Fluoride, total (mg/L)	MR-AP-MW-15	0.2991	3/9/2022	0.103J	No	46	0.1511	0.06996	0	None	No	0.0005787	Param Inter 1 of 2
Fluoride, total (mg/L)	MR-AP-MW-16	0.2991	3/8/2022	0.155	No	46	0.1511	0.06996	0	None	No	0.0005787	Param Inter 1 of 2
Fluoride, total (mg/L)	MR-AP-MW-2	0.2991	3/16/2022	0.268	No	46	0.1511	0.06996	0	None	No	0.0005787	Param Inter 1 of 2
<b>Fluoride, total (mg/L)</b>	<b>MR-AP-MW-3D</b>	<b>0.2991</b>	<b>3/16/2022</b>	<b>0.388</b>	<b>Yes</b>	<b>46</b>	<b>0.1511</b>	<b>0.06996</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0005787</b>	<b>Param Inter 1 of 2</b>
<b>Fluoride, total (mg/L)</b>	<b>MR-AP-MW-3S</b>	<b>0.2991</b>	<b>3/16/2022</b>	<b>0.309</b>	<b>Yes</b>	<b>46</b>	<b>0.1511</b>	<b>0.06996</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0005787</b>	<b>Param Inter 1 of 2</b>
Fluoride, total (mg/L)	MR-AP-MW-4	0.2991	3/15/2022	0.154	No	46	0.1511	0.06996	0	None	No	0.0005787	Param Inter 1 of 2
<b>Fluoride, total (mg/L)</b>	<b>MR-AP-MW-5</b>	<b>0.2991</b>	<b>3/14/2022</b>	<b>0.405</b>	<b>Yes</b>	<b>46</b>	<b>0.1511</b>	<b>0.06996</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0005787</b>	<b>Param Inter 1 of 2</b>
Fluoride, total (mg/L)	MR-AP-MW-6	0.2991	3/16/2022	0.155	No	46	0.1511	0.06996	0	None	No	0.0005787	Param Inter 1 of 2
<b>Fluoride, total (mg/L)</b>	<b>MR-AP-PZ-5</b>	<b>0.2991</b>	<b>3/14/2022</b>	<b>2.28</b>	<b>Yes</b>	<b>46</b>	<b>0.1511</b>	<b>0.06996</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0005787</b>	<b>Param Inter 1 of 2</b>
Sulfate as SO4 (mg/L)	MR-AP-MW-1	139	3/15/2022	512	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-10	139	3/17/2022	735	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-11	139	3/16/2022	707	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-12	139	3/17/2022	1730	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-15	139	3/9/2022	123	No	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-16	139	3/8/2022	530	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-2	139	3/16/2022	1630	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-3D	139	3/16/2022	352	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-3S	139	3/16/2022	227	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-4	139	3/15/2022	475	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-5	139	3/14/2022	810	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-6	139	3/16/2022	587	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-PZ-5	139	3/14/2022	51.7	No	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-1	534	3/15/2022	897	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-10	534	3/17/2022	1230	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-11	534	3/16/2022	1120	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2

# Interwell Prediction Limits - All Results

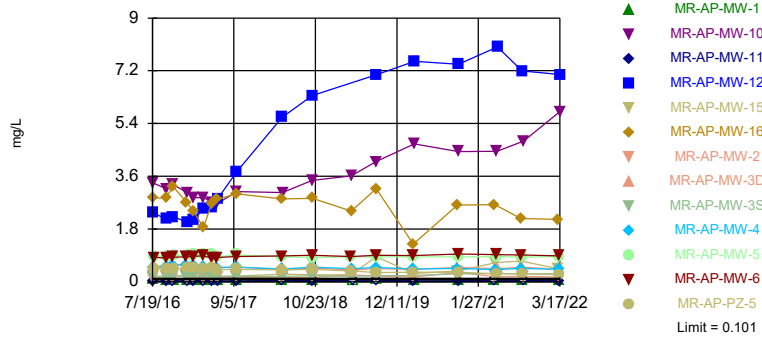
Plant Miller    Client: Southern Company    Data: Miller Ash Pond    Printed 5/18/2022, 1:49 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Date</u>	<u>Obsrv.</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>
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-12	534	3/17/2022	2580	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-15	534	3/9/2022	279	No	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-16	534	3/8/2022	738	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-2	534	3/16/2022	2420	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-3D	534	3/16/2022	698	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-3S	534	3/16/2022	698	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-4	534	3/15/2022	800	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-5	534	3/14/2022	1190	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-6	534	3/16/2022	894	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-PZ-5	534	3/14/2022	748	Yes	44	n/a	n/a	0	n/a	n/a	0.0009449	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

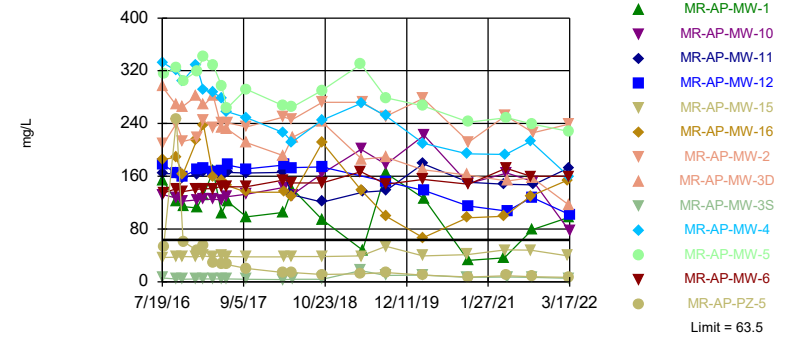


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 44 background values. 36.36% NDs. Annual per-constituent alpha = 0.02428. Individual comparison alpha = 0.0009449 (1 of 2). Comparing 13 points to limit.

Constituent: Boron, total Analysis Run 5/18/2022 1:48 PM View: All  
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-16, MR-AP-MW-2, MR-AP-MW-3D,...

Prediction Limit  
Interwell Non-parametric

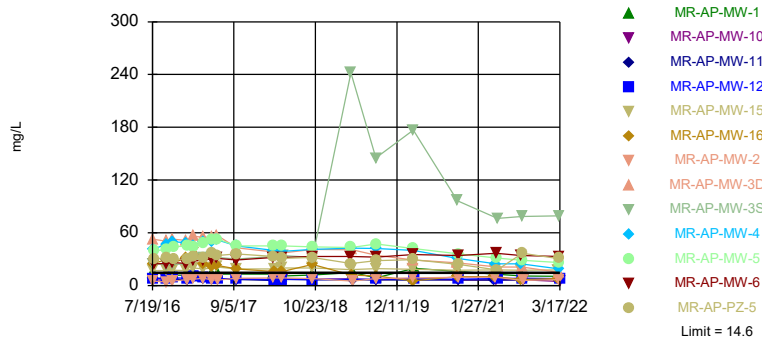


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 44 background values. Annual per-constituent alpha = 0.02428. Individual comparison alpha = 0.0009449 (1 of 2). Comparing 13 points to limit.

Constituent: Calcium, total Analysis Run 5/18/2022 1:48 PM View: All  
Plant Miller Client: Southern Company Data: Miller Ash Pond

Exceeds Limit: MR-AP-MW-15, MR-AP-MW-3D, MR-AP-MW-3S, MR-AP-MW-4, MR-AP-MW-5, MR-AP-MW-6, MR-AP-PZ-5

Prediction Limit  
Interwell Non-parametric

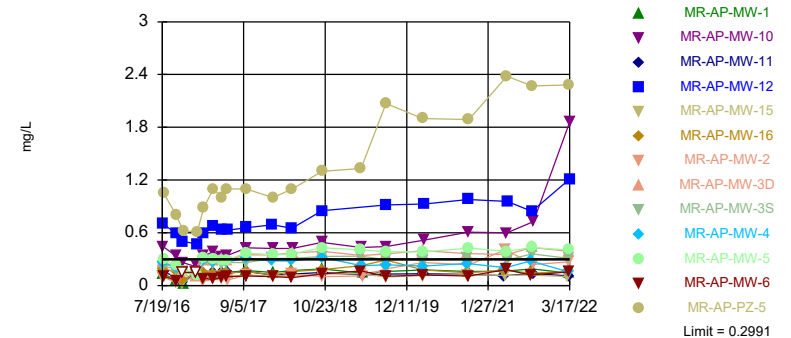


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 44 background values. Annual per-constituent alpha = 0.02428. Individual comparison alpha = 0.0009449 (1 of 2). Comparing 13 points to limit.

Constituent: Chloride, Total Analysis Run 5/18/2022 1:48 PM View: All  
Plant Miller Client: Southern Company Data: Miller Ash Pond

Exceeds Limit: MR-AP-MW-10, MR-AP-MW-12, MR-AP-MW-3D, MR-AP-MW-3S, MR-AP-MW-5, MR-AP-PZ-5

Prediction Limit  
Interwell Parametric

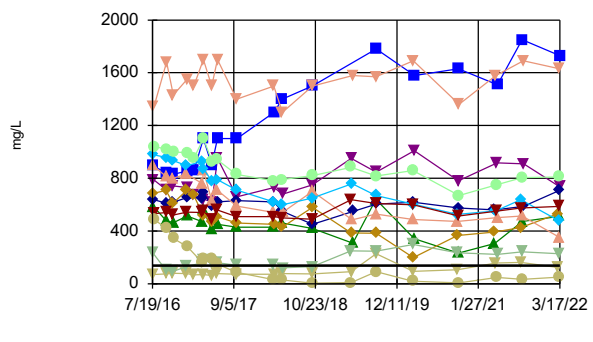


Background Data Summary: Mean=0.1511, Std. Dev.=0.06996, n=46. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9476, critical = 0.927. Kappa = 2.116 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0005787. Comparing 13 points to limit.

Constituent: Fluoride, total Analysis Run 5/18/2022 1:48 PM View: All  
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-16, MR-AP-MW-2, MR-AP-MW-3D,...

Prediction Limit  
Interwell Non-parametric

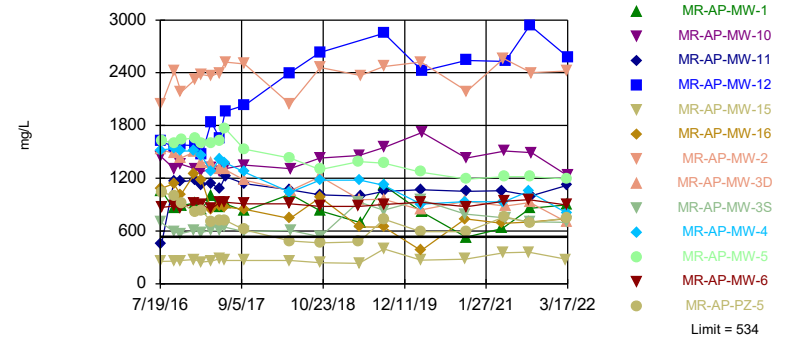


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 44 background values. Annual per-constituent alpha = 0.02428. Individual comparison alpha = 0.0009449 (1 of 2). Comparing 13 points to limit.

Constituent: Sulfate as SO4 Analysis Run 5/18/2022 1:48 PM View: All  
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-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 Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 44 background values. Annual per-constituent alpha = 0.02428. Individual comparison alpha = 0.0009449 (1 of 2). Comparing 13 points to limit.

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/18/2022 1:48 PM View: All  
Plant Miller Client: Southern Company Data: Miller Ash Pond

FIGURE F.

# Trend Test - Significant Results

Plant Miller    Client: Southern Company    Data: Miller Ash Pond    Printed 5/18/2022, 2:05 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	MR-AP-MW-10	0.374	80	68	Yes	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-12	1.189	104	63	Yes	17	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-15	0.05229	104	68	Yes	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-2	0.01699	94	68	Yes	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-3D	-0.02511	-78	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-3S	0.01331	77	68	Yes	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-4	-0.02106	-92	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-6	0.01849	93	68	Yes	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-PZ-5	-0.03749	-111	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-16	-18.82	-93	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-3D	-27.29	-140	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-4	-26.52	-137	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-5	-16.31	-102	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-6	4.756	124	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	GS-AP-MW-8 (bg)	0.1896	85	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-3D	-6.927	-118	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-3S	11.11	117	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-4	-4.482	-96	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-6	1.915	143	74	Yes	19	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	0.07522	123	74	Yes	19	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-12	0.09617	100	68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-3D	0.03451	119	74	Yes	19	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-3S	0.02546	101	74	Yes	19	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-5	0.0337	112	74	Yes	19	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-PZ-5	0.2944	128	74	Yes	19	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-10	0.06835	122	81	Yes	20	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-3D	0.03997	145	87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-12	194.2	124	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-16	-56.99	-104	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-3D	-82.71	-130	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-4	-89.47	-135	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-5	-52.98	-111	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-12	249.7	98	63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-16	-98.91	-92	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-3D	-142.8	-134	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-4	-132.2	-126	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-5	-90.76	-109	-68	Yes	18	0	n/a	n/a	0.01	NP

# Trend Test - All Results

Plant Miller    Client: Southern Company    Data: Miller Ash Pond    Printed 5/18/2022, 2:05 PM

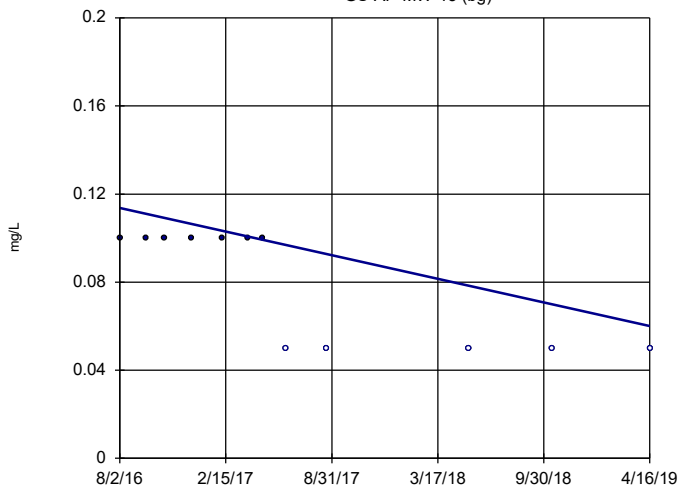
<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Boron, total (mg/L)	GS-AP-MW-13 (bg)	-0.01983	-35	-38	No	12	41.67	n/a	n/a	0.01	NP
Boron, total (mg/L)	GS-AP-MW-17V (bg)	-0.0054	-7	-18	No	7	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	GS-AP-MW-8 (bg)	0	-49	-68	No	18	61.11	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>MR-AP-MW-10</b>	<b>0.374</b>	<b>80</b>	<b>68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>MR-AP-MW-12</b>	<b>1.189</b>	<b>104</b>	<b>63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>MR-AP-MW-15</b>	<b>0.05229</b>	<b>104</b>	<b>68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron, total (mg/L)	MR-AP-MW-16	-0.09743	-48	-68	No	18	0	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>MR-AP-MW-2</b>	<b>0.01699</b>	<b>94</b>	<b>68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron, total (mg/L)	MR-AP-MW-21 (bg)	0.0005558	3	18	No	7	0	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>MR-AP-MW-3D</b>	<b>-0.02511</b>	<b>-78</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>MR-AP-MW-3S</b>	<b>0.01331</b>	<b>77</b>	<b>68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>MR-AP-MW-4</b>	<b>-0.02106</b>	<b>-92</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron, total (mg/L)	MR-AP-MW-5	-0.005261	-52	-68	No	18	0	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>MR-AP-MW-6</b>	<b>0.01849</b>	<b>93</b>	<b>68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>MR-AP-PZ-5</b>	<b>-0.03749</b>	<b>-111</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
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)	0.5737	5	18	No	7	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	GS-AP-MW-8 (bg)	-0.6456	-57	-68	No	18	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-1	-11.64	-68	-74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-10	6.948	74	74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-11	-2.237	-16	-74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-12	-9.865	-63	-68	No	18	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>MR-AP-MW-16</b>	<b>-18.82</b>	<b>-93</b>	<b>-74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	MR-AP-MW-2	5.098	61	74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-21 (bg)	-1.345	-5	-18	No	7	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>MR-AP-MW-3D</b>	<b>-27.29</b>	<b>-140</b>	<b>-74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium, total (mg/L)</b>	<b>MR-AP-MW-4</b>	<b>-26.52</b>	<b>-137</b>	<b>-74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium, total (mg/L)</b>	<b>MR-AP-MW-5</b>	<b>-16.31</b>	<b>-102</b>	<b>-74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium, total (mg/L)</b>	<b>MR-AP-MW-6</b>	<b>4.756</b>	<b>124</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
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)	-0.1796	-7	-18	No	7	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>GS-AP-MW-8 (bg)</b>	<b>0.1896</b>	<b>85</b>	<b>68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	MR-AP-MW-15	0	5	74	No	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-21 (bg)	0	0	18	No	7	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>MR-AP-MW-3D</b>	<b>-6.927</b>	<b>-118</b>	<b>-74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>MR-AP-MW-3S</b>	<b>11.11</b>	<b>117</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>MR-AP-MW-4</b>	<b>-4.482</b>	<b>-96</b>	<b>-74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	MR-AP-MW-5	-2.024	-60	-74	No	19	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>MR-AP-MW-6</b>	<b>1.915</b>	<b>143</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	MR-AP-PZ-5	-0.6466	-33	-74	No	19	0	n/a	n/a	0.01	NP
<b>Fluoride, total (mg/L)</b>	<b>GS-AP-MW-13 (bg)</b>	<b>0.02914</b>	<b>48</b>	<b>43</b>	<b>Yes</b>	<b>13</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Fluoride, total (mg/L)	GS-AP-MW-17V (bg)	0.001162	1	18	No	7	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	GS-AP-MW-8 (bg)	0.003661	34	74	No	19	0	n/a	n/a	0.01	NP
<b>Fluoride, total (mg/L)</b>	<b>MR-AP-MW-10</b>	<b>0.07522</b>	<b>123</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Fluoride, total (mg/L)</b>	<b>MR-AP-MW-12</b>	<b>0.09617</b>	<b>100</b>	<b>68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Fluoride, total (mg/L)	MR-AP-MW-21 (bg)	-0.01385	-5	-18	No	7	0	n/a	n/a	0.01	NP
<b>Fluoride, total (mg/L)</b>	<b>MR-AP-MW-3D</b>	<b>0.03451</b>	<b>119</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Fluoride, total (mg/L)</b>	<b>MR-AP-MW-3S</b>	<b>0.02546</b>	<b>101</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Fluoride, total (mg/L)</b>	<b>MR-AP-MW-5</b>	<b>0.0337</b>	<b>112</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Fluoride, total (mg/L)</b>	<b>MR-AP-PZ-5</b>	<b>0.2944</b>	<b>128</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
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)	-0.09188	-12	-18	No	7	0	n/a	n/a	0.01	NP
pH, Field (pH)	GS-AP-MW-8 (bg)	-0.04138	-73	-74	No	19	0	n/a	n/a	0.01	NP
<b>pH, Field (pH)</b>	<b>MR-AP-MW-10</b>	<b>0.06835</b>	<b>122</b>	<b>81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
pH, Field (pH)	MR-AP-MW-21 (bg)	0.1629	15	18	No	7	0	n/a	n/a	0.01	NP
<b>pH, Field (pH)</b>	<b>MR-AP-MW-3D</b>	<b>0.03997</b>	<b>145</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
pH, Field (pH)	MR-AP-MW-4	0.03439	75	87	No	21	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)	-1.441	-13	-18	No	7	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GS-AP-MW-8 (bg)	0.1821	34	68	No	18	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-1	-36.11	-58	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-10	30.74	48	74	No	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-11	-10.53	-46	-74	No	19	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>MR-AP-MW-12</b>	<b>194.2</b>	<b>124</b>	<b>68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>MR-AP-MW-16</b>	<b>-56.99</b>	<b>-104</b>	<b>-74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	MR-AP-MW-2	23.5	32	74	No	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-21 (bg)	9.095	15	18	No	7	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>MR-AP-MW-3D</b>	<b>-82.71</b>	<b>-130</b>	<b>-74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>

# Trend Test - All Results

Plant Miller    Client: Southern Company    Data: Miller Ash Pond    Printed 5/18/2022, 2:05 PM

<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>
Sulfate as SO4 (mg/L)	MR-AP-MW-3S	19.57	57	74	No	19	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>MR-AP-MW-4</b>	<b>-89.47</b>	<b>-135</b>	<b>-74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>MR-AP-MW-5</b>	<b>-52.98</b>	<b>-111</b>	<b>-74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	MR-AP-MW-6	8.425	38	74	No	19	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)	0	0	18	No	7	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	GS-AP-MW-8 (bg)	-3.157	-39	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-1	-29.99	-43	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-10	35.53	44	68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-11	-22.37	-52	-68	No	18	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>MR-AP-MW-12</b>	<b>249.7</b>	<b>98</b>	<b>63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>MR-AP-MW-16</b>	<b>-98.91</b>	<b>-92</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-2	35.55	51	68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-21 (bg)	17	5	18	No	7	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>MR-AP-MW-3D</b>	<b>-142.8</b>	<b>-134</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-3S	23.44	49	68	No	18	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>MR-AP-MW-4</b>	<b>-132.2</b>	<b>-126</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>MR-AP-MW-5</b>	<b>-90.76</b>	<b>-109</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-6	7.677	41	68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-PZ-5	-58.25	-62	-68	No	18	0	n/a	n/a	0.01	NP

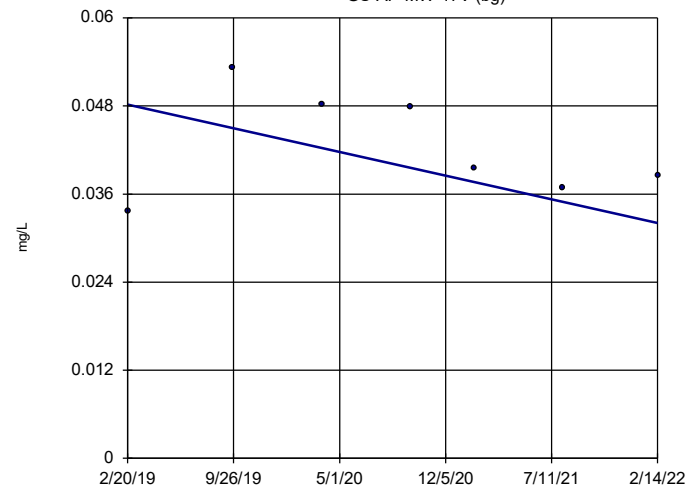
### Sen's Slope Estimator GS-AP-MW-13 (bg)



n = 12  
 Slope = -0.01983  
 units per year.  
 Mann-Kendall  
 statistic = -35  
 critical = -38  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Boron, total Analysis Run 5/18/2022 2:03 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

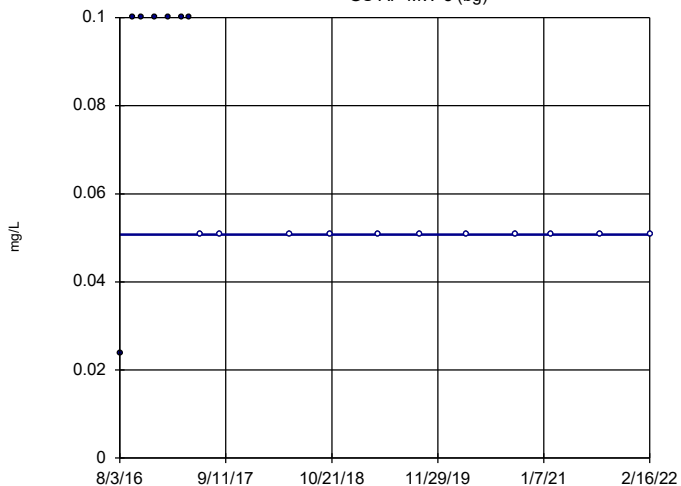
### Sen's Slope Estimator GS-AP-MW-17V (bg)



n = 7  
 Slope = -0.0054  
 units per year.  
 Mann-Kendall  
 statistic = -7  
 critical = -18  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Boron, total Analysis Run 5/18/2022 2:03 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

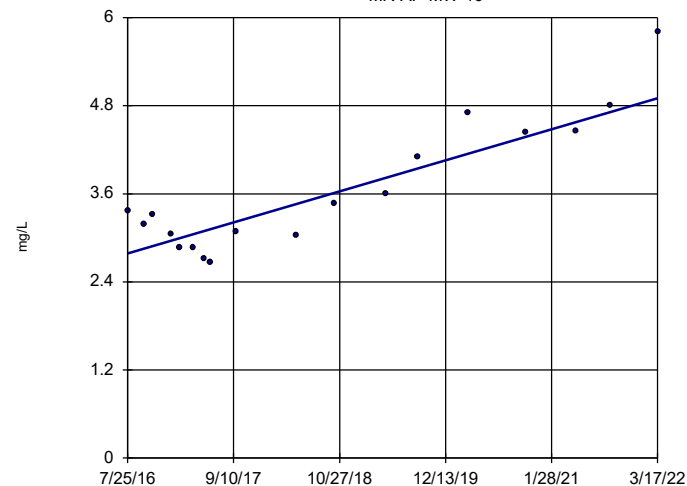
### Sen's Slope Estimator GS-AP-MW-8 (bg)



n = 18  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = -49  
 critical = -68  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Boron, total Analysis Run 5/18/2022 2:03 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator MR-AP-MW-10

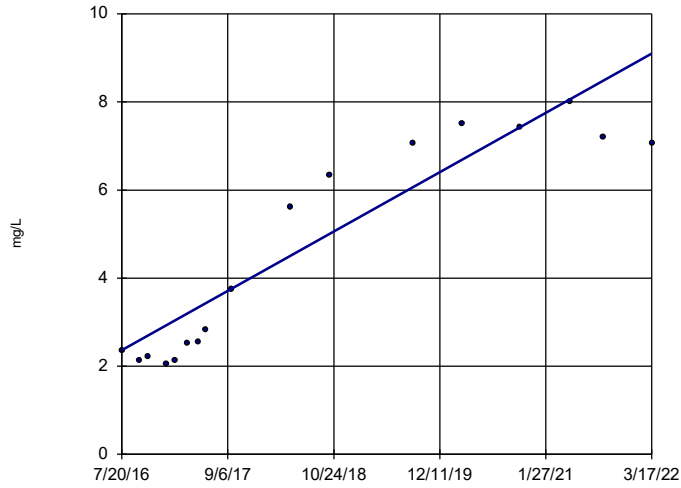


n = 18  
 Slope = 0.374  
 units per year.  
 Mann-Kendall  
 statistic = 80  
 critical = 68  
 Increasing trend  
 significant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Boron, total Analysis Run 5/18/2022 2:03 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

MR-AP-MW-12

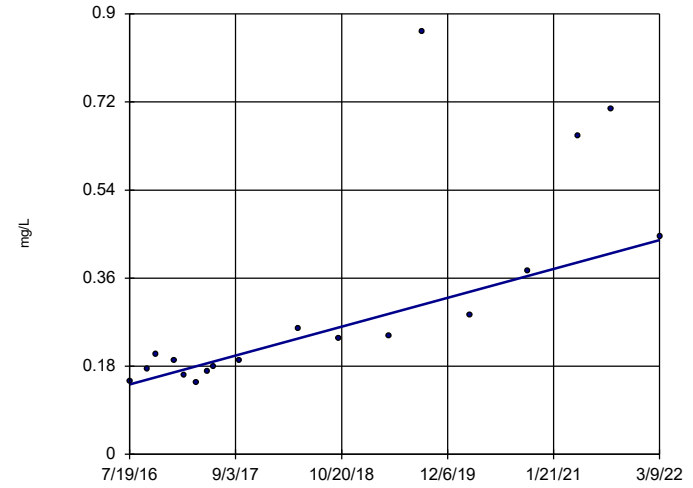


n = 17  
 Slope = 1.189  
 units per year.  
 Mann-Kendall  
 statistic = 104  
 critical = 63  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Boron, total Analysis Run 5/18/2022 2:03 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

MR-AP-MW-15

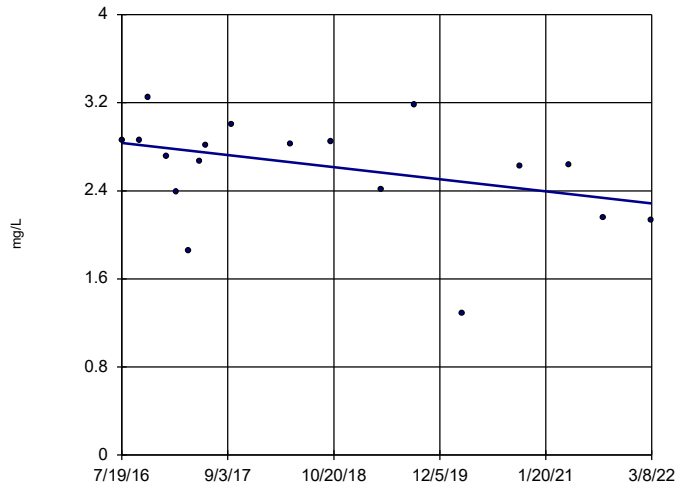


n = 18  
 Slope = 0.05229  
 units per year.  
 Mann-Kendall  
 statistic = 104  
 critical = 68  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Boron, total Analysis Run 5/18/2022 2:03 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

MR-AP-MW-16

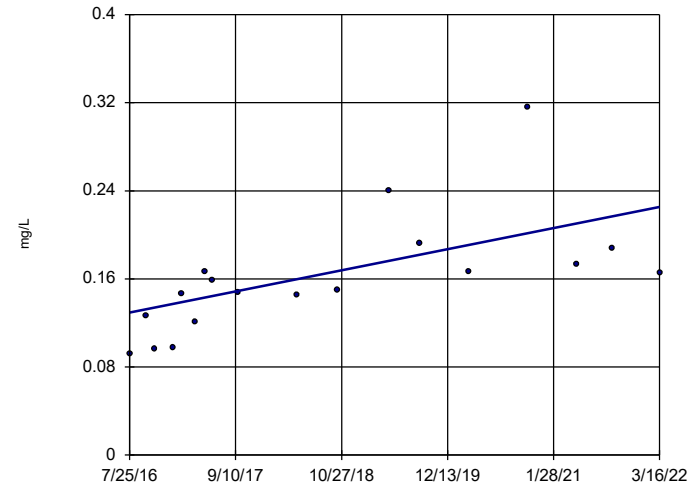


n = 18  
 Slope = -0.09743  
 units per year.  
 Mann-Kendall  
 statistic = -48  
 critical = -68  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Boron, total Analysis Run 5/18/2022 2:03 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

MR-AP-MW-2



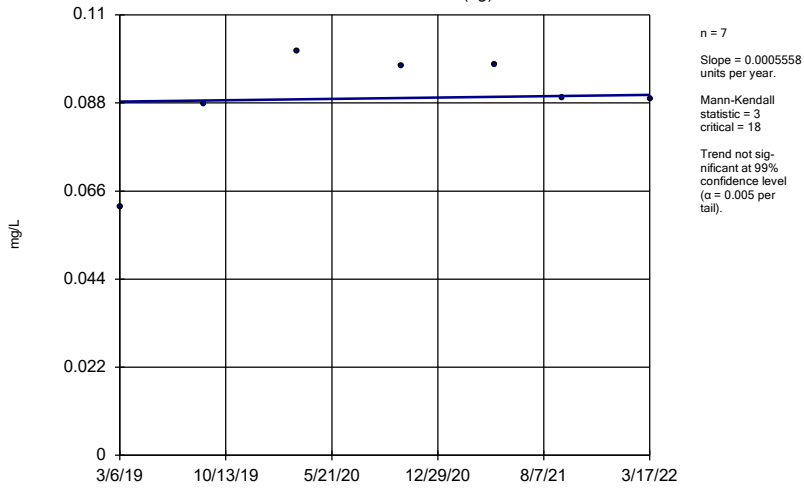
n = 18  
 Slope = 0.01699  
 units per year.  
 Mann-Kendall  
 statistic = 94  
 critical = 68  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Boron, total Analysis Run 5/18/2022 2:03 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond



### Sen's Slope Estimator

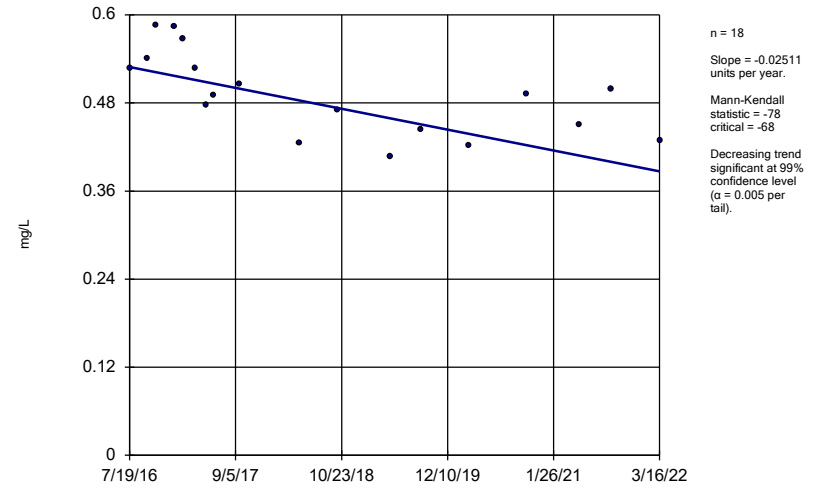
MR-AP-MW-21 (bg)



Constituent: Boron, total Analysis Run 5/18/2022 2:03 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

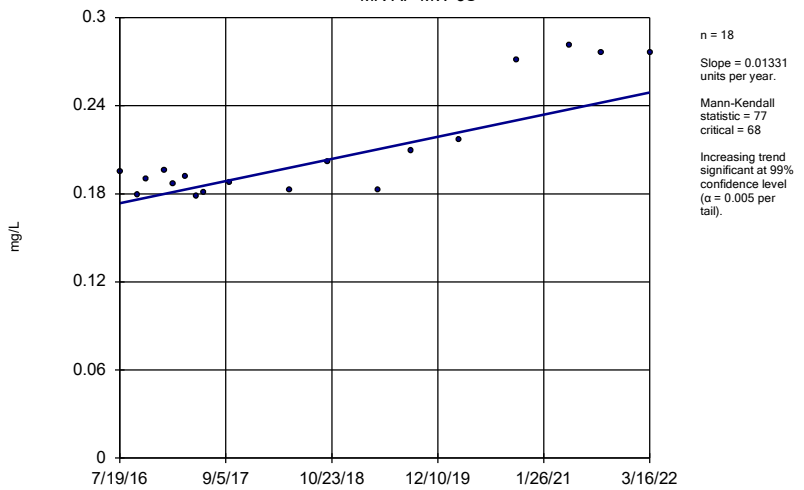
MR-AP-MW-3D



Constituent: Boron, total Analysis Run 5/18/2022 2:03 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

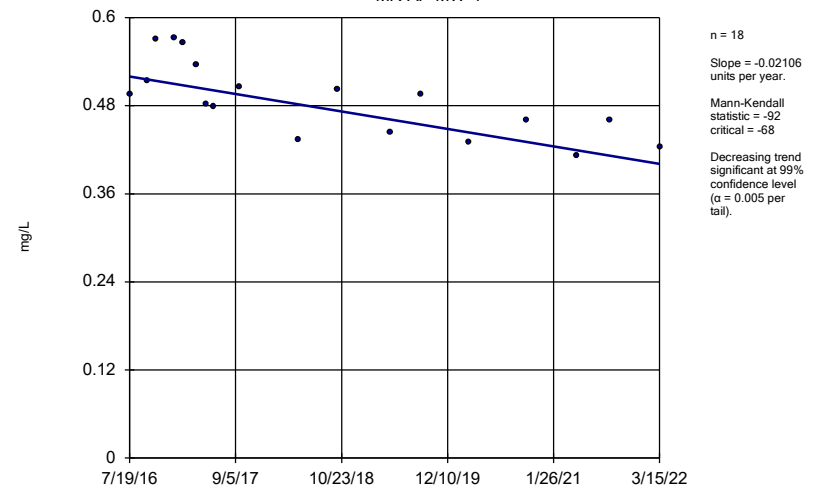
MR-AP-MW-3S



Constituent: Boron, total Analysis Run 5/18/2022 2:03 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

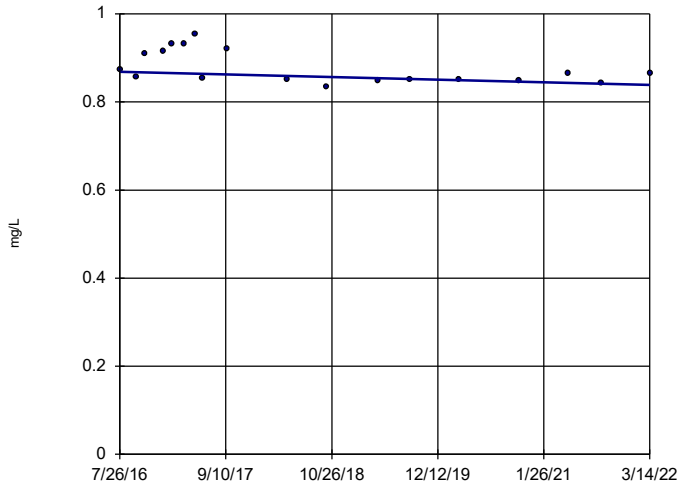
### Sen's Slope Estimator

MR-AP-MW-4



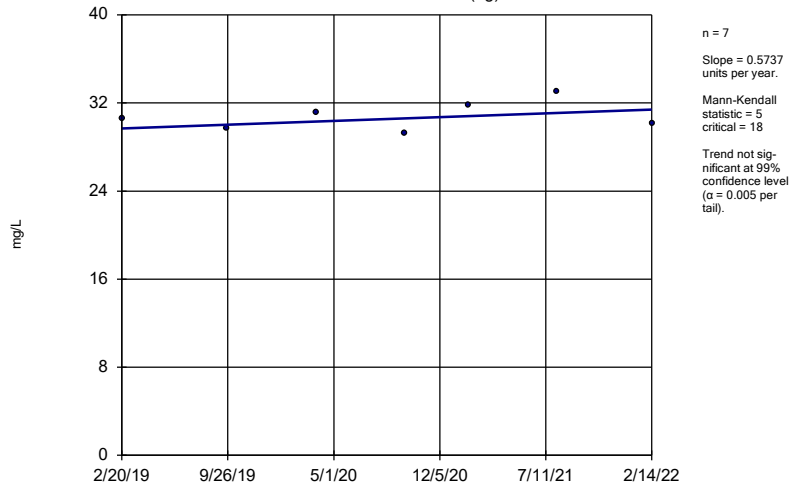
Constituent: Boron, total Analysis Run 5/18/2022 2:03 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator MR-AP-MW-5



### Sen's Slope Estimator

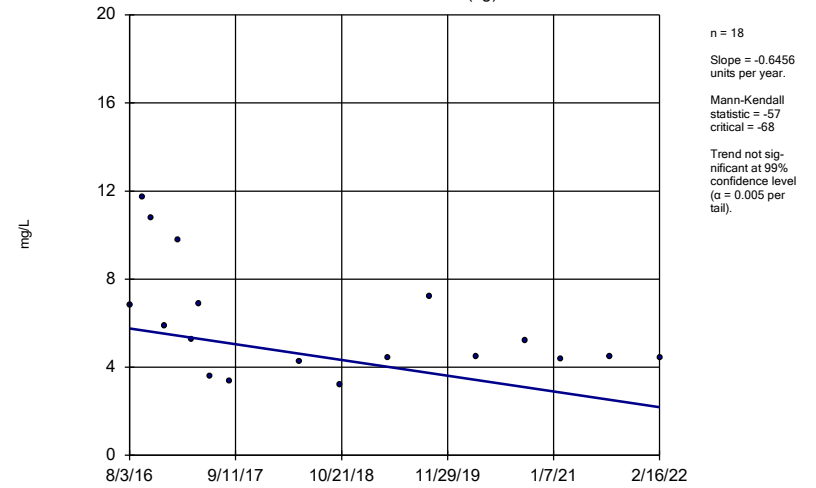
GS-AP-MW-17V (bg)



Constituent: Calcium, total Analysis Run 5/18/2022 2:03 PM View: Trend  
Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

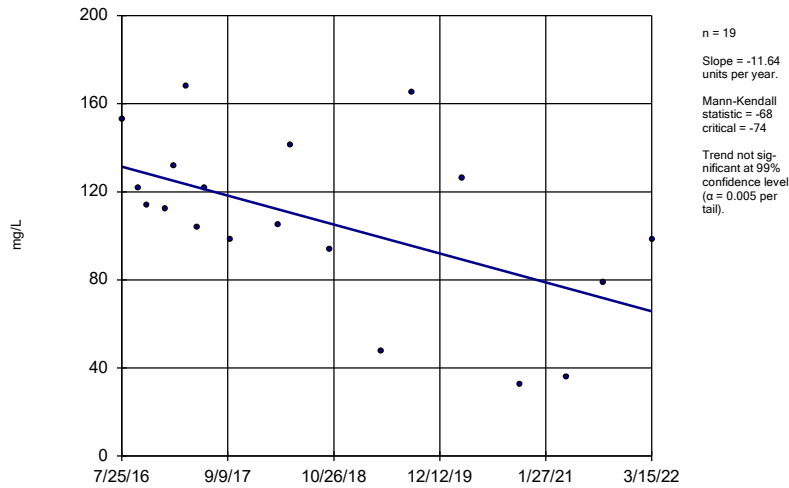
GS-AP-MW-8 (bg)



Constituent: Calcium, total Analysis Run 5/18/2022 2:03 PM View: Trend  
Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

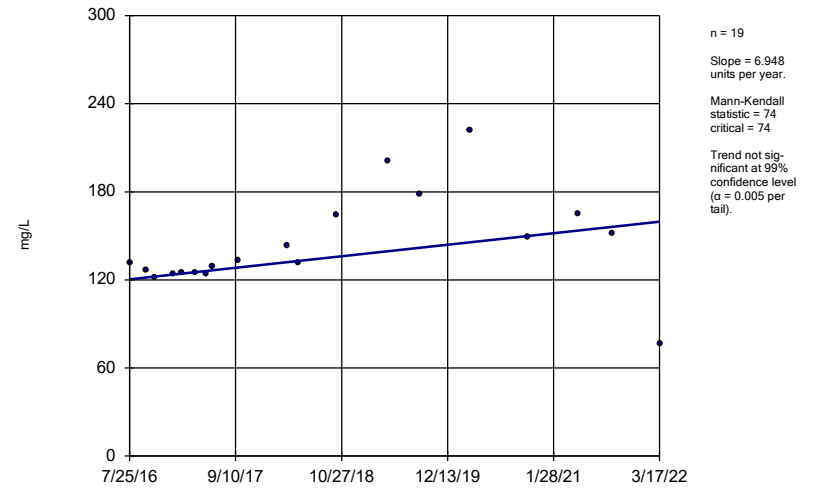
MR-AP-MW-1



Constituent: Calcium, total Analysis Run 5/18/2022 2:03 PM View: Trend  
Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

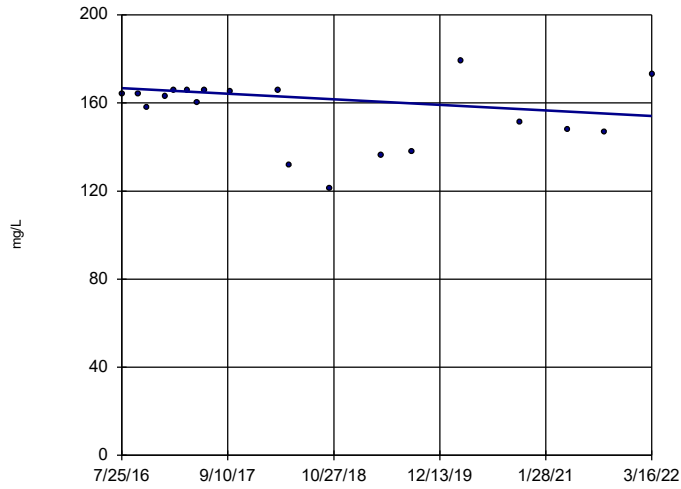
MR-AP-MW-10



Constituent: Calcium, total Analysis Run 5/18/2022 2:03 PM View: Trend  
Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

MR-AP-MW-11

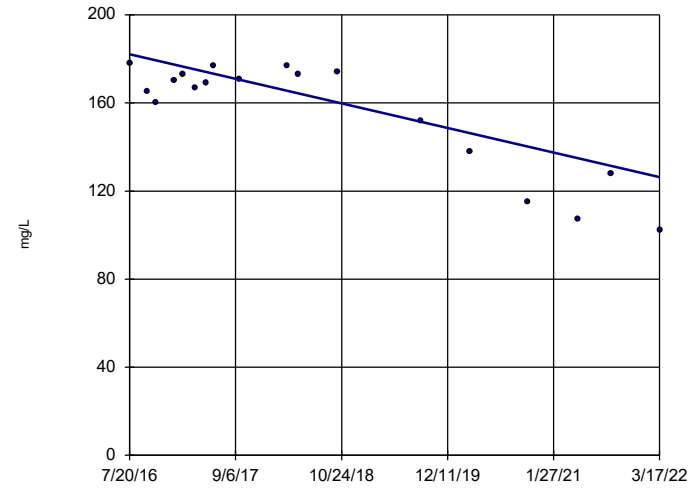


n = 19  
 Slope = -2.237  
 units per year.  
 Mann-Kendall  
 statistic = -16  
 critical = -74  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Calcium, total Analysis Run 5/18/2022 2:03 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

MR-AP-MW-12

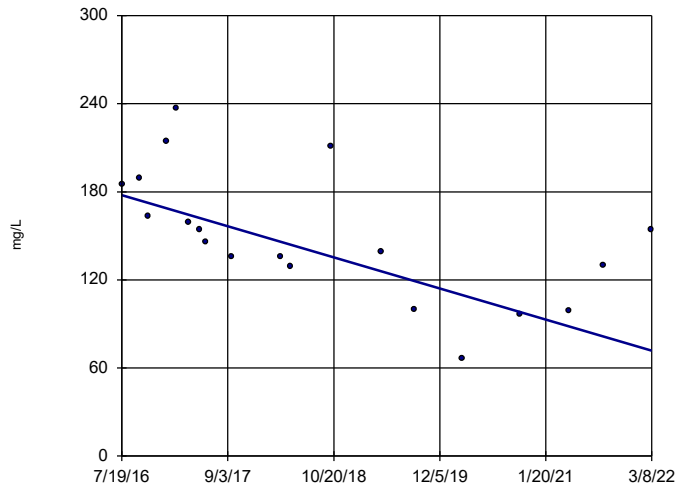


n = 18  
 Slope = -9.865  
 units per year.  
 Mann-Kendall  
 statistic = -63  
 critical = -68  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Calcium, total Analysis Run 5/18/2022 2:03 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

MR-AP-MW-16

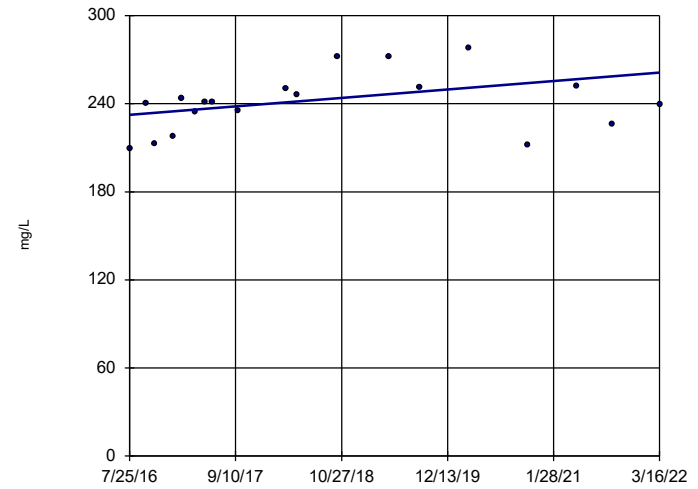


n = 19  
 Slope = -18.82  
 units per year.  
 Mann-Kendall  
 statistic = -93  
 critical = -74  
 Decreasing trend  
 significant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Calcium, total Analysis Run 5/18/2022 2:03 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

MR-AP-MW-2

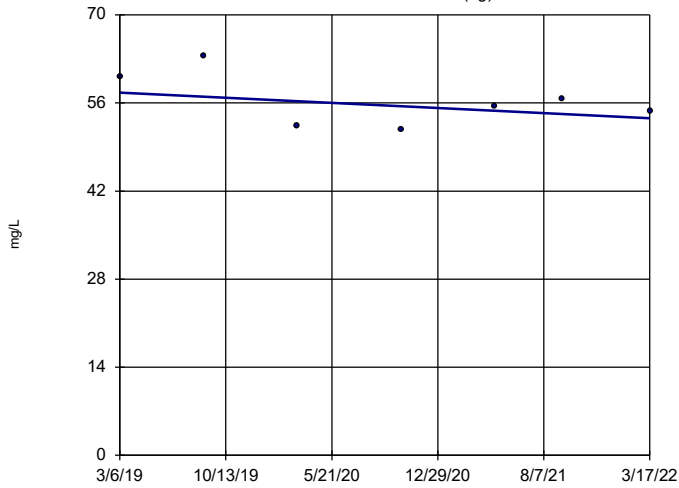


n = 19  
 Slope = 5.098  
 units per year.  
 Mann-Kendall  
 statistic = 61  
 critical = 74  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Calcium, total Analysis Run 5/18/2022 2:03 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

MR-AP-MW-21 (bg)

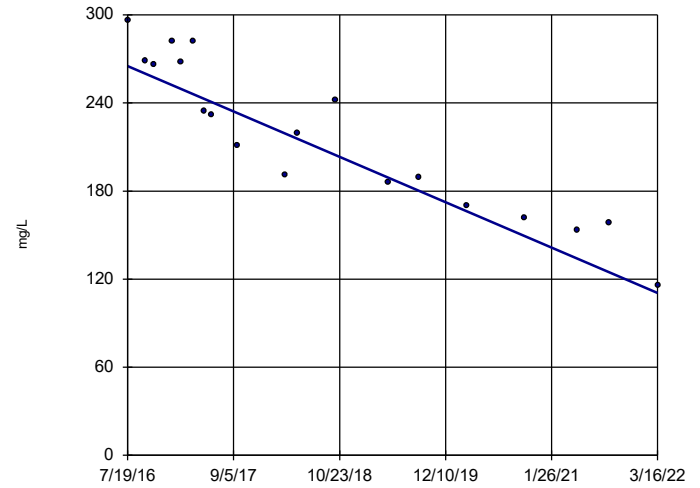


n = 7  
 Slope = -1.345  
 units per year.  
 Mann-Kendall  
 statistic = -5  
 critical = -18  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium, total Analysis Run 5/18/2022 2:03 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

MR-AP-MW-3D

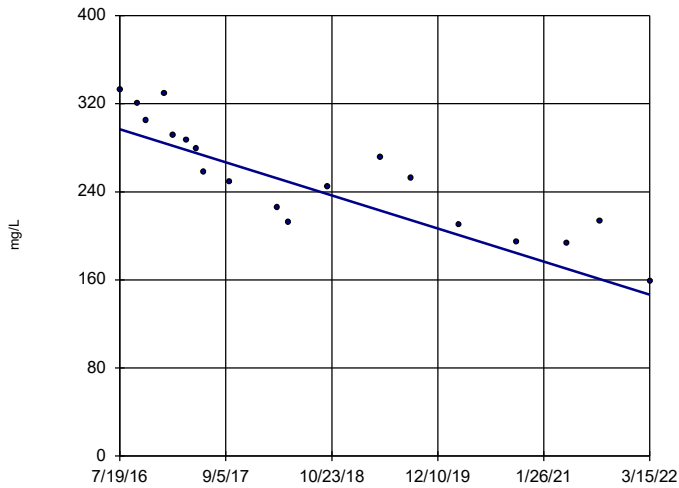


n = 19  
 Slope = -27.29  
 units per year.  
 Mann-Kendall  
 statistic = -140  
 critical = -74  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium, total Analysis Run 5/18/2022 2:03 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

MR-AP-MW-4

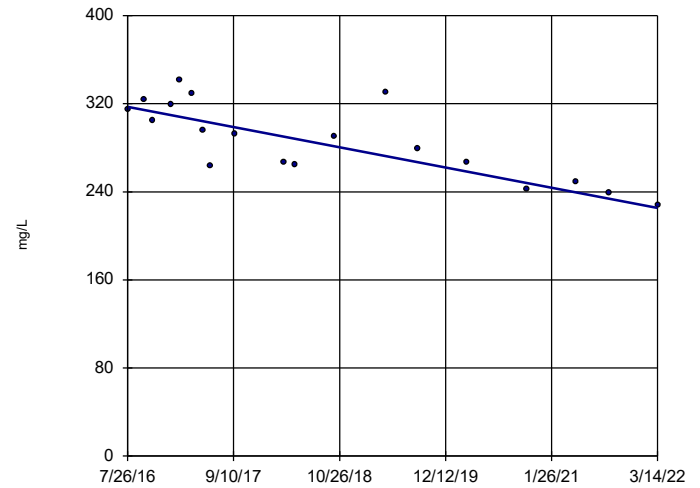


n = 19  
 Slope = -26.52  
 units per year.  
 Mann-Kendall  
 statistic = -137  
 critical = -74  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium, total Analysis Run 5/18/2022 2:03 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

MR-AP-MW-5

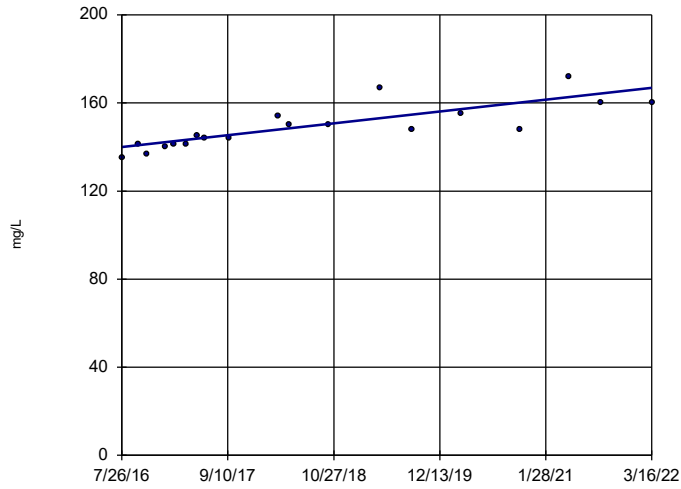


n = 19  
 Slope = -16.31  
 units per year.  
 Mann-Kendall  
 statistic = -102  
 critical = -74  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium, total Analysis Run 5/18/2022 2:03 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

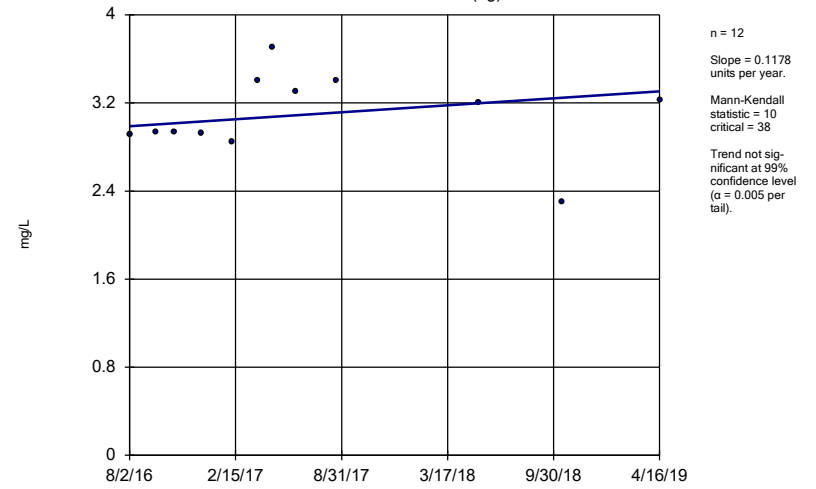
MR-AP-MW-6



Constituent: Calcium, total Analysis Run 5/18/2022 2:03 PM View: Trend  
Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

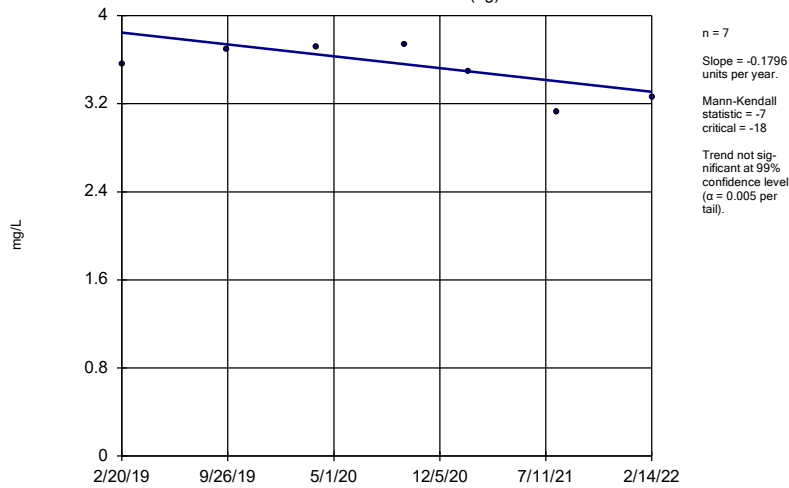
GS-AP-MW-13 (bg)



Constituent: Chloride, Total Analysis Run 5/18/2022 2:03 PM View: Trend  
Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

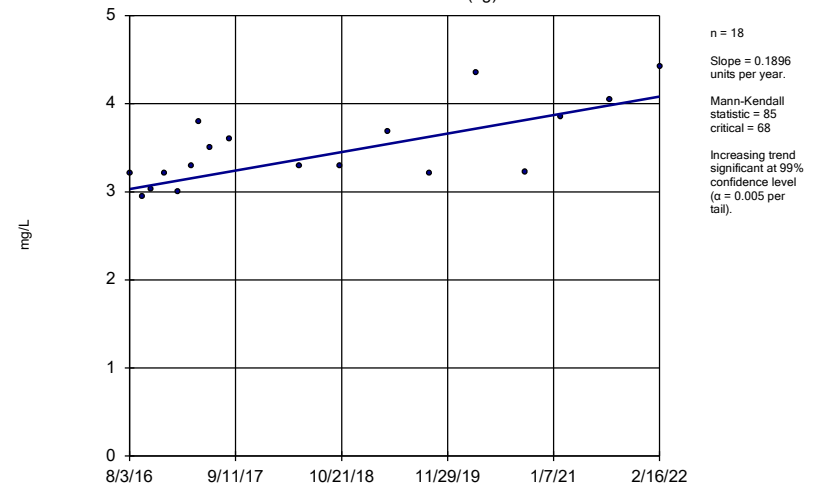
GS-AP-MW-17V (bg)



Constituent: Chloride, Total Analysis Run 5/18/2022 2:04 PM View: Trend  
Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

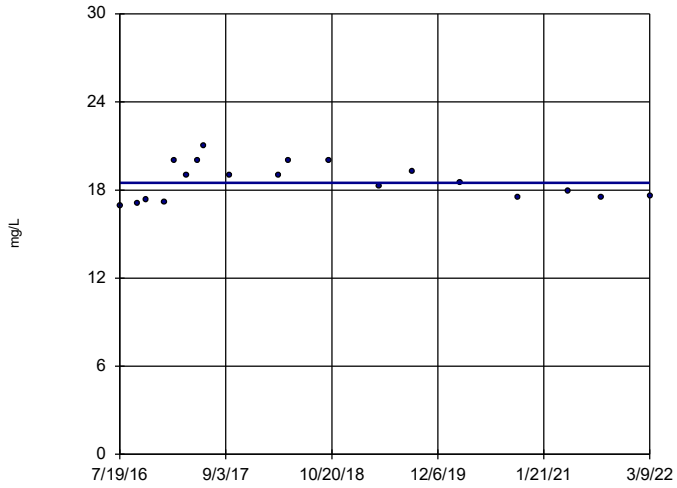
GS-AP-MW-8 (bg)



Constituent: Chloride, Total Analysis Run 5/18/2022 2:04 PM View: Trend  
Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

MR-AP-MW-15

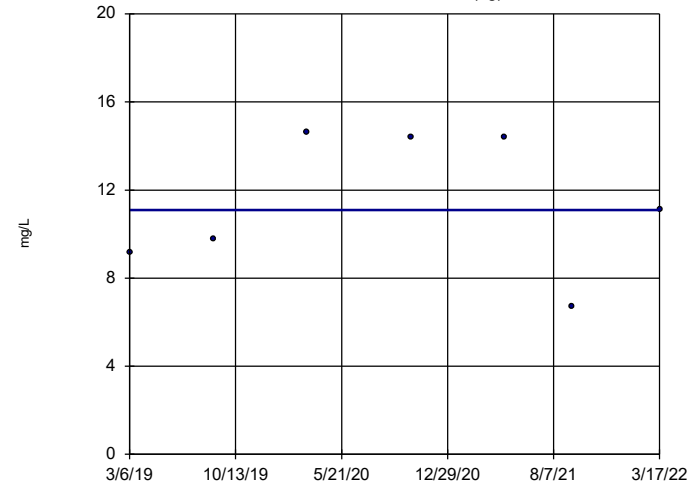


n = 19  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = 5  
 critical = 74  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride, Total Analysis Run 5/18/2022 2:04 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

MR-AP-MW-21 (bg)

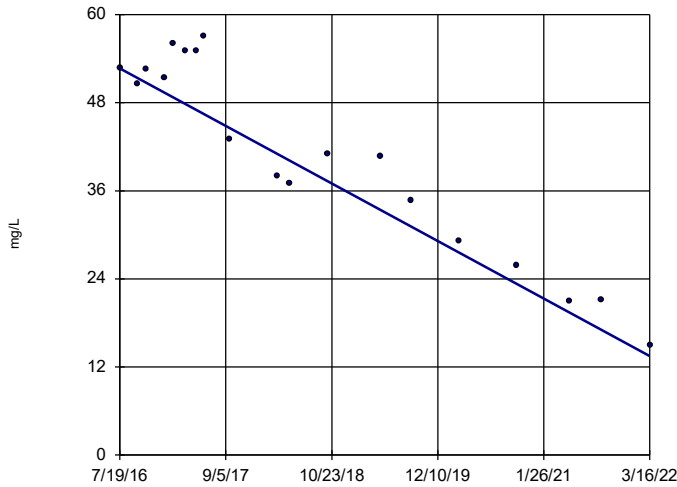


n = 7  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = 0  
 critical = 18  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride, Total Analysis Run 5/18/2022 2:04 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

MR-AP-MW-3D

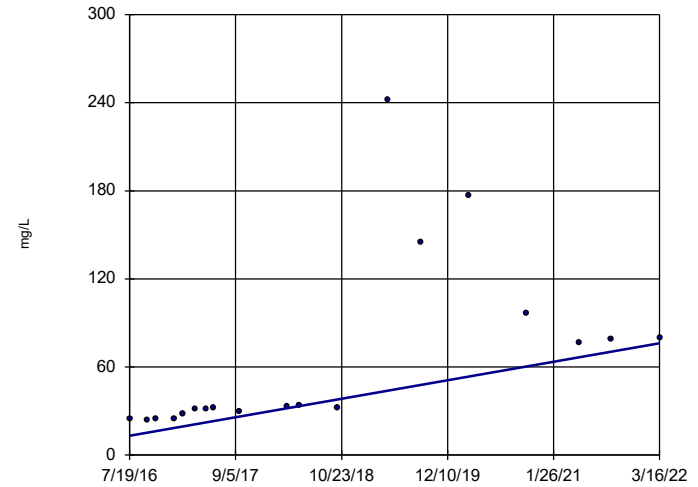


n = 19  
 Slope = -6.927  
 units per year.  
 Mann-Kendall  
 statistic = -118  
 critical = -74  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride, Total Analysis Run 5/18/2022 2:04 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

MR-AP-MW-3S

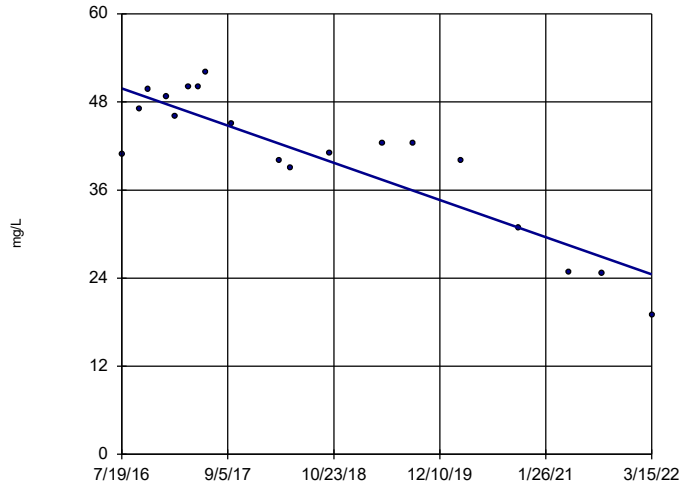


n = 19  
 Slope = 11.11  
 units per year.  
 Mann-Kendall  
 statistic = 117  
 critical = 74  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride, Total Analysis Run 5/18/2022 2:04 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

MR-AP-MW-4

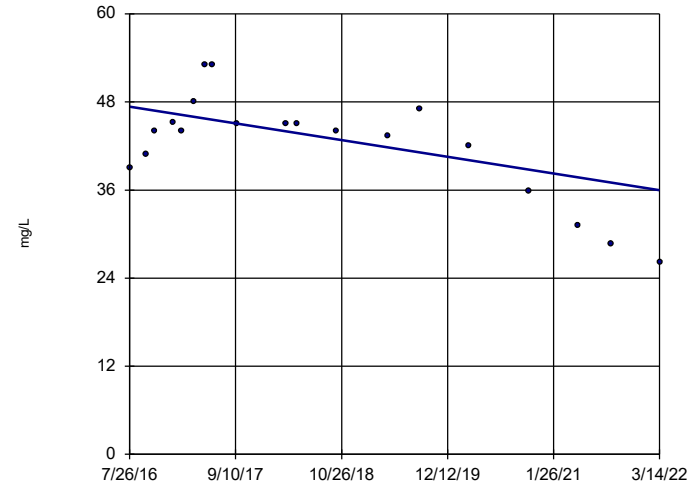


n = 19  
 Slope = -4.482  
 units per year.  
 Mann-Kendall  
 statistic = -96  
 critical = -74  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride, Total Analysis Run 5/18/2022 2:04 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

MR-AP-MW-5

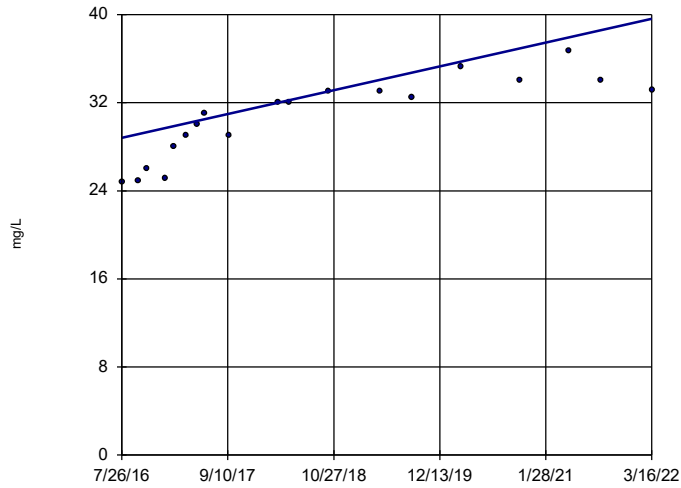


n = 19  
 Slope = -2.024  
 units per year.  
 Mann-Kendall  
 statistic = -60  
 critical = -74  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride, Total Analysis Run 5/18/2022 2:04 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

MR-AP-MW-6

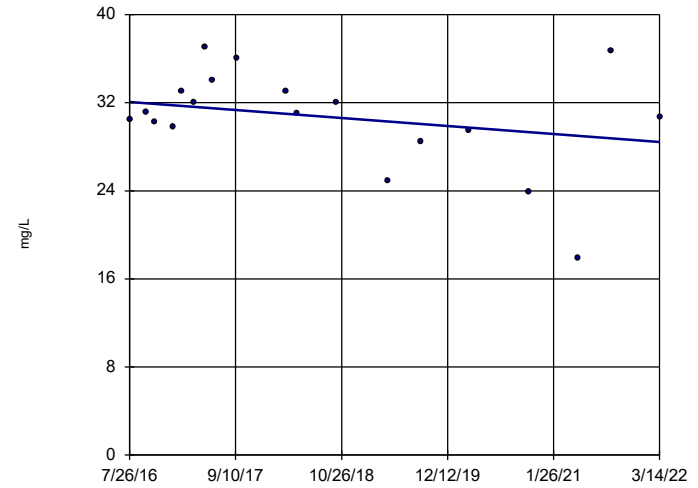


n = 19  
 Slope = 1.915  
 units per year.  
 Mann-Kendall  
 statistic = 143  
 critical = 74  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride, Total Analysis Run 5/18/2022 2:04 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

MR-AP-PZ-5

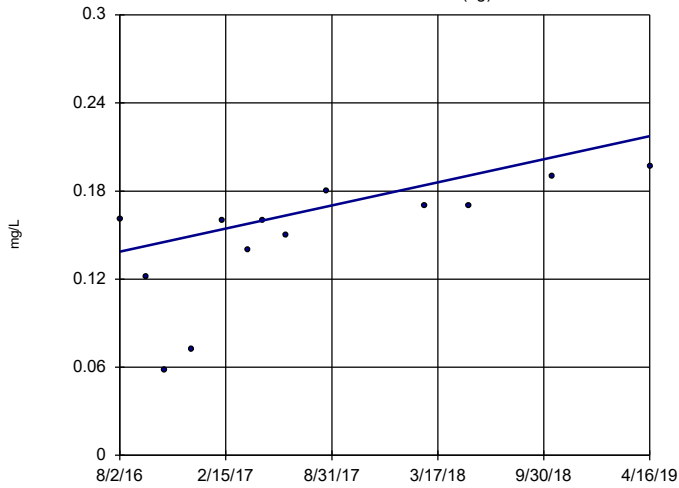


n = 19  
 Slope = -0.6466  
 units per year.  
 Mann-Kendall  
 statistic = -33  
 critical = -74  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride, Total Analysis Run 5/18/2022 2:04 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

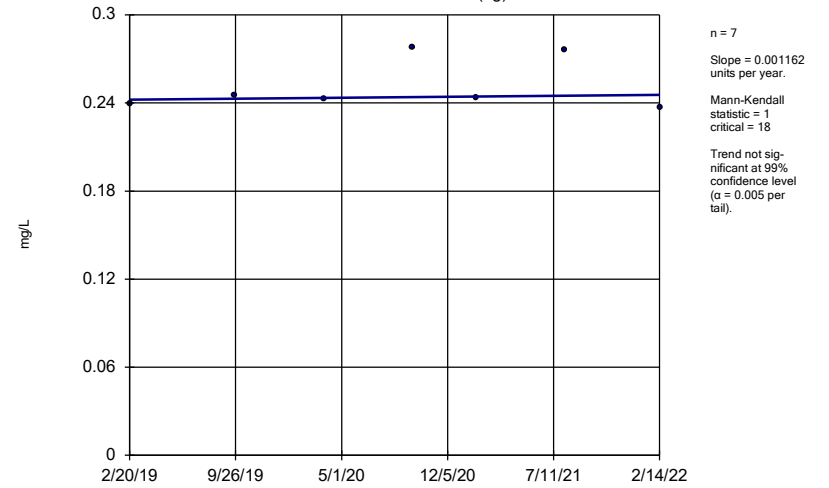


### Sen's Slope Estimator GS-AP-MW-13 (bg)



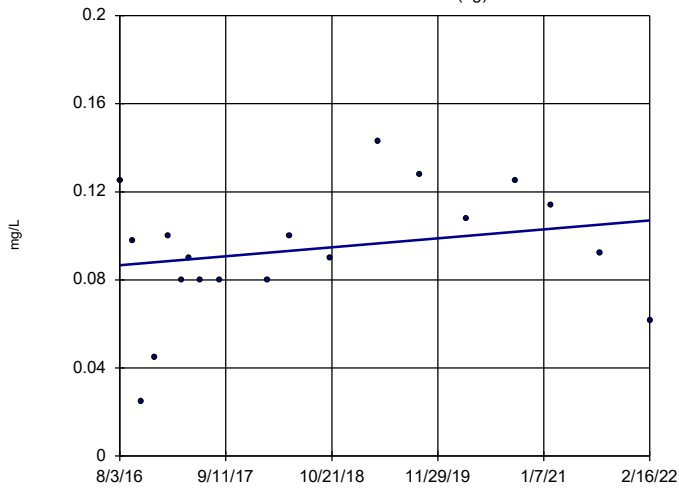
Constituent: Fluoride, total Analysis Run 5/18/2022 2:04 PM View: Trend  
Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator GS-AP-MW-17V (bg)



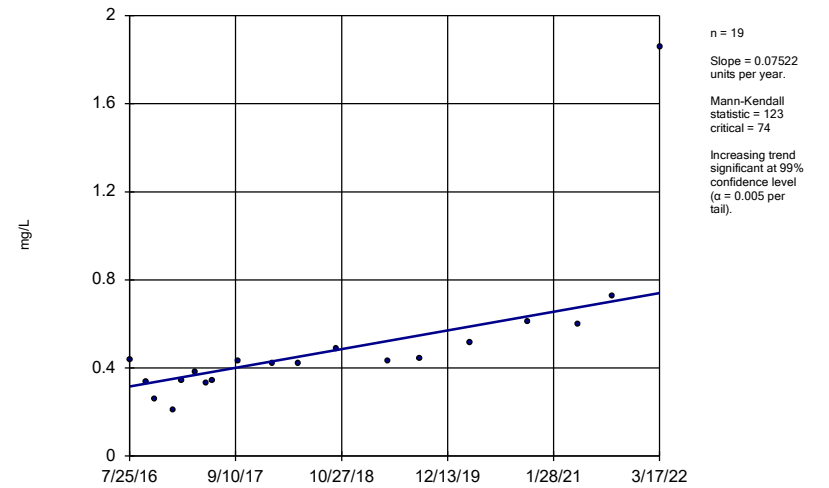
Constituent: Fluoride, total Analysis Run 5/18/2022 2:04 PM View: Trend  
Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator GS-AP-MW-8 (bg)



Constituent: Fluoride, total Analysis Run 5/18/2022 2:04 PM View: Trend  
Plant Miller Client: Southern Company Data: Miller Ash Pond

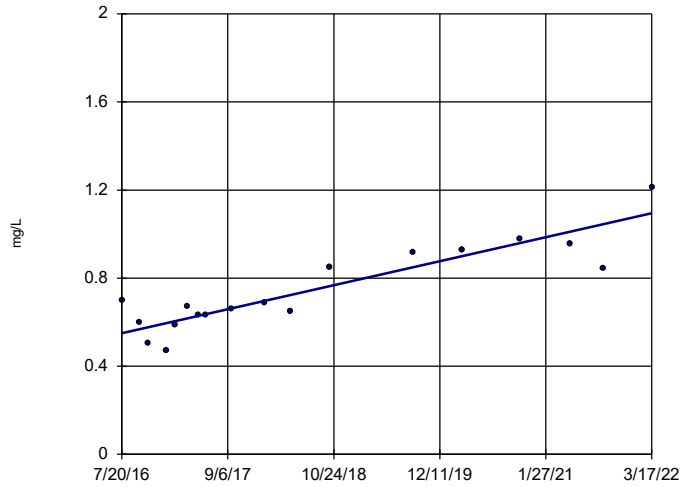
### Sen's Slope Estimator MR-AP-MW-10



Constituent: Fluoride, total Analysis Run 5/18/2022 2:04 PM View: Trend  
Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

MR-AP-MW-12

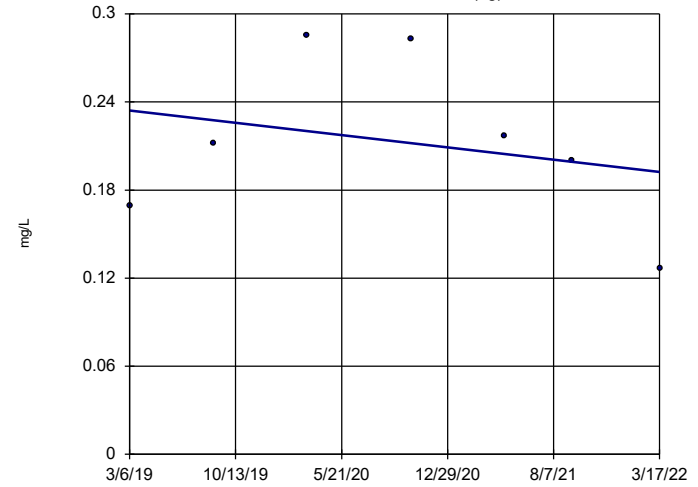


n = 18  
 Slope = 0.09617  
 units per year.  
 Mann-Kendall  
 statistic = 100  
 critical = 68  
 Increasing trend  
 significant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Fluoride, total Analysis Run 5/18/2022 2:04 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

MR-AP-MW-21 (bg)

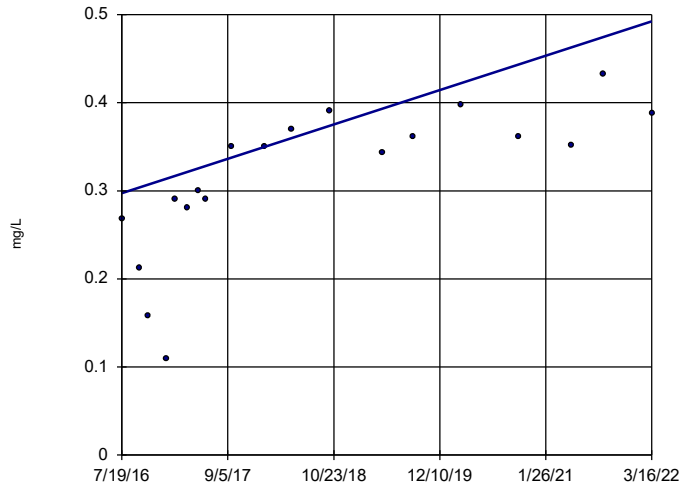


n = 7  
 Slope = -0.01385  
 units per year.  
 Mann-Kendall  
 statistic = -5  
 critical = -18  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Fluoride, total Analysis Run 5/18/2022 2:04 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

MR-AP-MW-3D

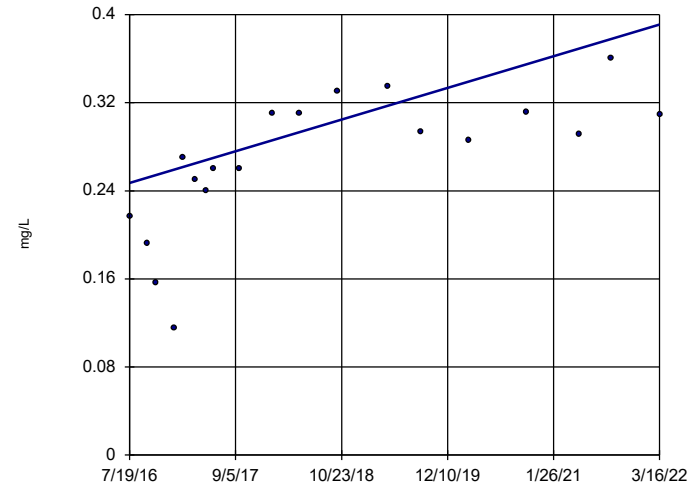


n = 19  
 Slope = 0.03451  
 units per year.  
 Mann-Kendall  
 statistic = 119  
 critical = 74  
 Increasing trend  
 significant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Fluoride, total Analysis Run 5/18/2022 2:04 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

MR-AP-MW-3S

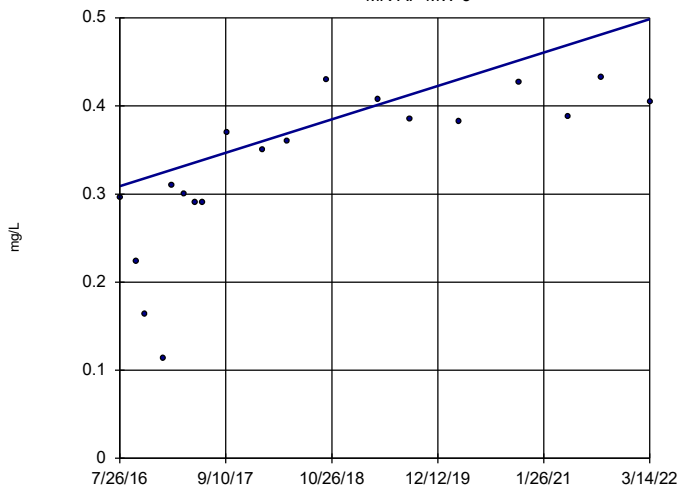


n = 19  
 Slope = 0.02546  
 units per year.  
 Mann-Kendall  
 statistic = 101  
 critical = 74  
 Increasing trend  
 significant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Fluoride, total Analysis Run 5/18/2022 2:04 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

MR-AP-MW-5

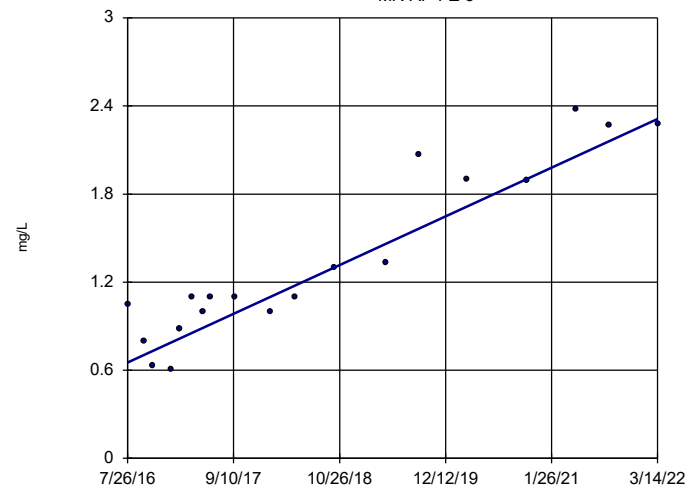


n = 19  
Slope = 0.0337  
units per year.  
Mann-Kendall  
statistic = 112  
critical = 74  
Increasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Fluoride, total Analysis Run 5/18/2022 2:04 PM View: Trend  
Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

MR-AP-PZ-5

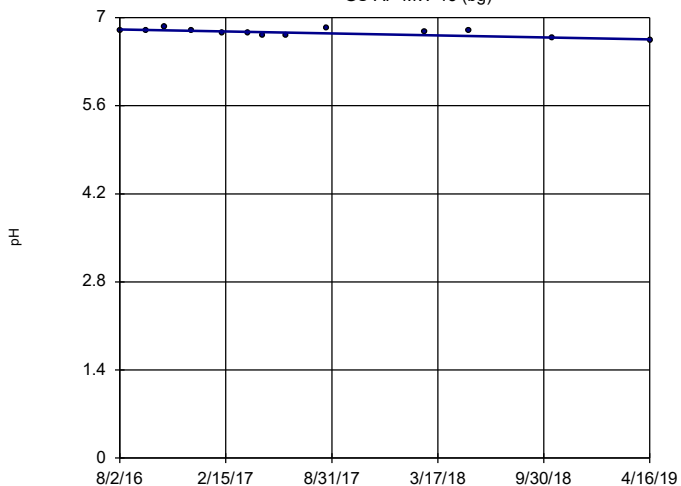


n = 19  
Slope = 0.2944  
units per year.  
Mann-Kendall  
statistic = 128  
critical = 74  
Increasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Fluoride, total Analysis Run 5/18/2022 2:04 PM View: Trend  
Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

GS-AP-MW-13 (bg)

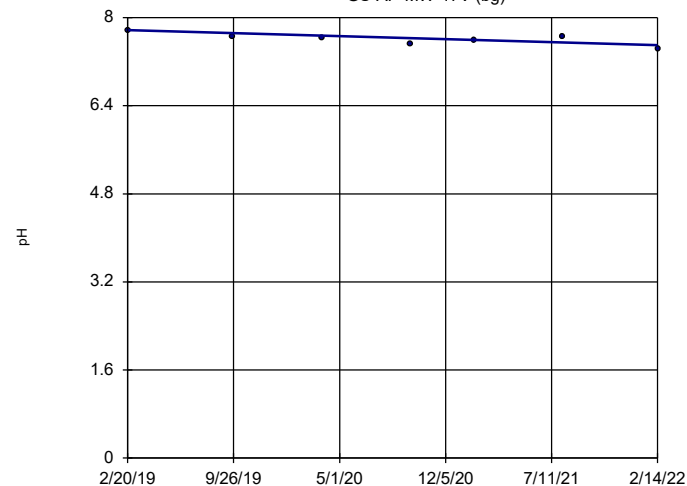


n = 13  
Slope = -0.05825  
units per year.  
Mann-Kendall  
statistic = -34  
critical = -43  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: pH, Field Analysis Run 5/18/2022 2:04 PM View: Trend  
Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

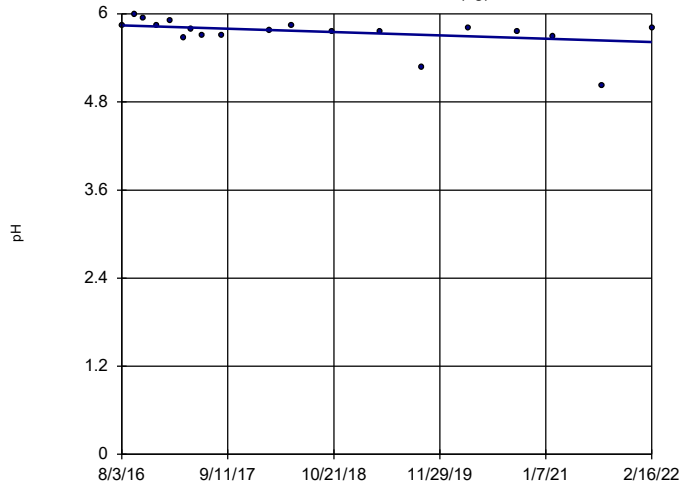
GS-AP-MW-17V (bg)



n = 7  
Slope = -0.09188  
units per year.  
Mann-Kendall  
statistic = -12  
critical = -18  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: pH, Field Analysis Run 5/18/2022 2:04 PM View: Trend  
Plant Miller Client: Southern Company Data: Miller Ash Pond

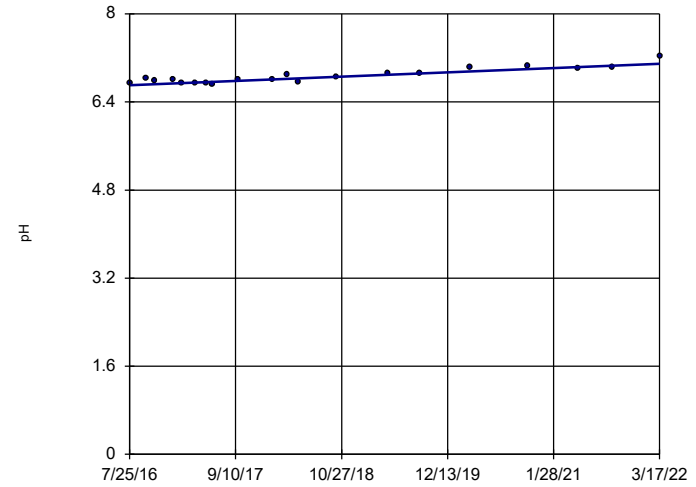
### Sen's Slope Estimator GS-AP-MW-8 (bg)



n = 19  
 Slope = -0.04138  
 units per year.  
 Mann-Kendall  
 statistic = -73  
 critical = -74  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: pH, Field Analysis Run 5/18/2022 2:04 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

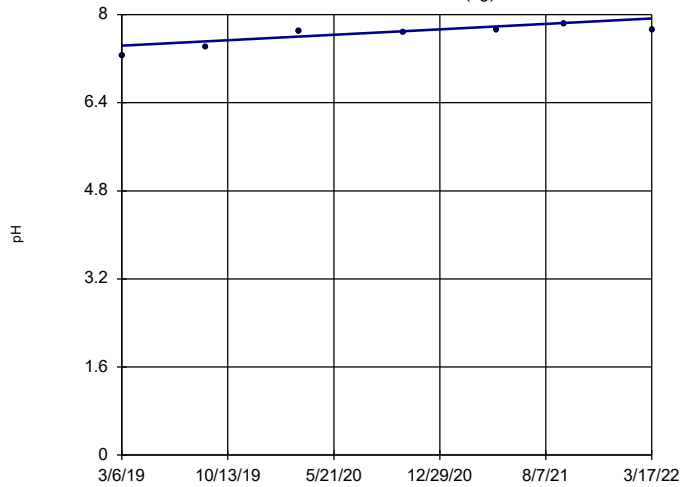
### Sen's Slope Estimator MR-AP-MW-10



n = 20  
 Slope = 0.06835  
 units per year.  
 Mann-Kendall  
 statistic = 122  
 critical = 81  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: pH, Field Analysis Run 5/18/2022 2:04 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

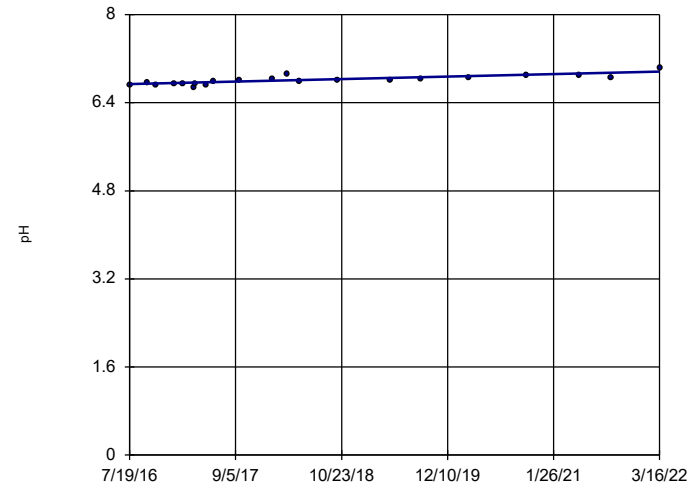
### Sen's Slope Estimator MR-AP-MW-21 (bg)



n = 7  
 Slope = 0.1629  
 units per year.  
 Mann-Kendall  
 statistic = 15  
 critical = 18  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: pH, Field Analysis Run 5/18/2022 2:04 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator MR-AP-MW-3D

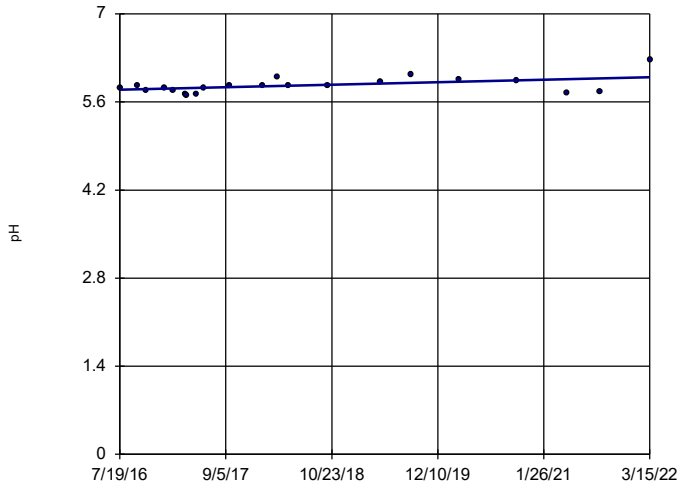


n = 21  
 Slope = 0.03997  
 units per year.  
 Mann-Kendall  
 statistic = 145  
 critical = 87  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: pH, Field Analysis Run 5/18/2022 2:04 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

MR-AP-MW-4

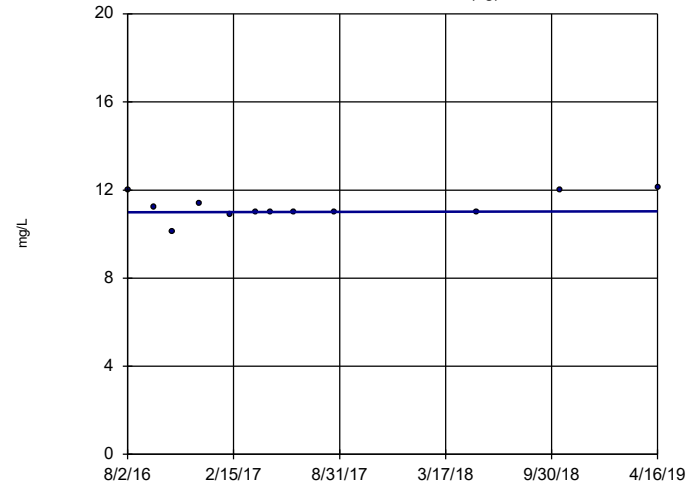


n = 21  
 Slope = 0.03439  
 units per year.  
 Mann-Kendall  
 statistic = 75  
 critical = 87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: pH, Field Analysis Run 5/18/2022 2:04 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

GS-AP-MW-13 (bg)

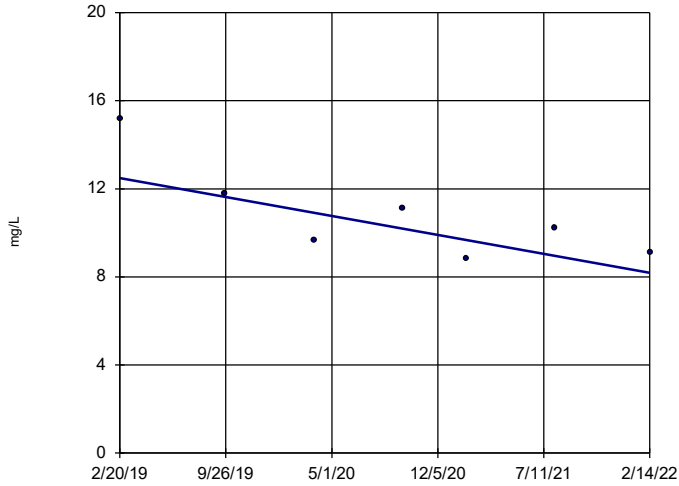


n = 12  
 Slope = 0.01849  
 units per year.  
 Mann-Kendall  
 statistic = 11  
 critical = 38  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate as SO4 Analysis Run 5/18/2022 2:04 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

GS-AP-MW-17V (bg)

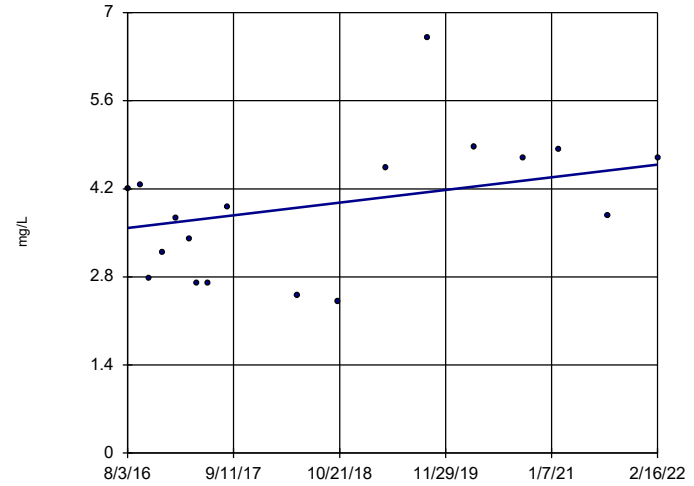


n = 7  
 Slope = -1.441  
 units per year.  
 Mann-Kendall  
 statistic = -13  
 critical = -18  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate as SO4 Analysis Run 5/18/2022 2:04 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

GS-AP-MW-8 (bg)

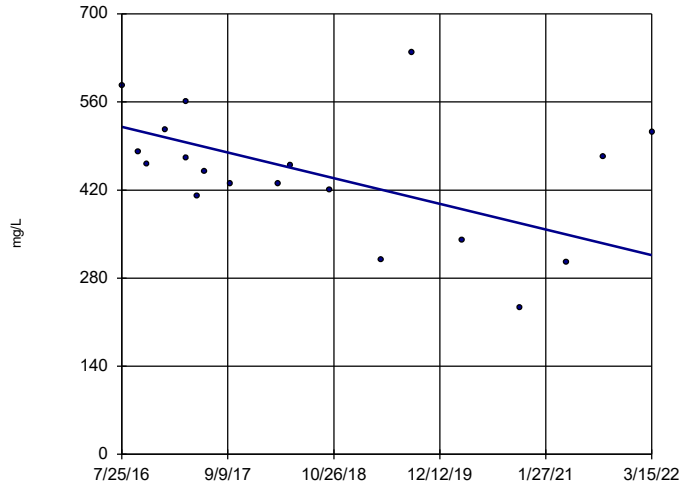


n = 18  
 Slope = 0.1821  
 units per year.  
 Mann-Kendall  
 statistic = 34  
 critical = 68  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate as SO4 Analysis Run 5/18/2022 2:04 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

MR-AP-MW-1

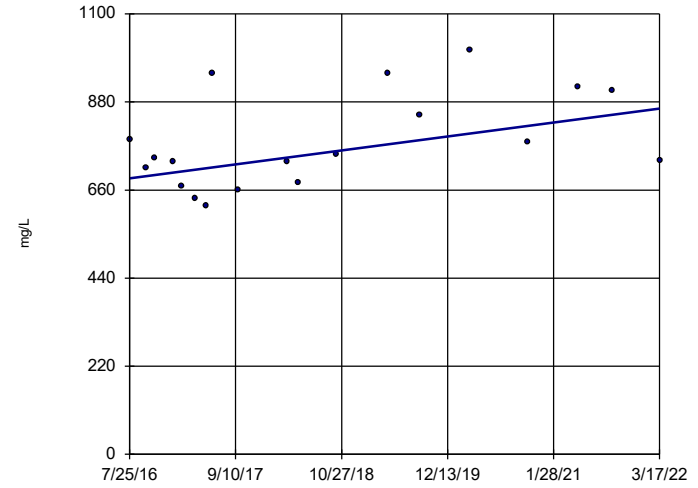


n = 19  
 Slope = -36.11  
 units per year.  
 Mann-Kendall  
 statistic = -58  
 critical = -74  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate as SO4 Analysis Run 5/18/2022 2:04 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

MR-AP-MW-10

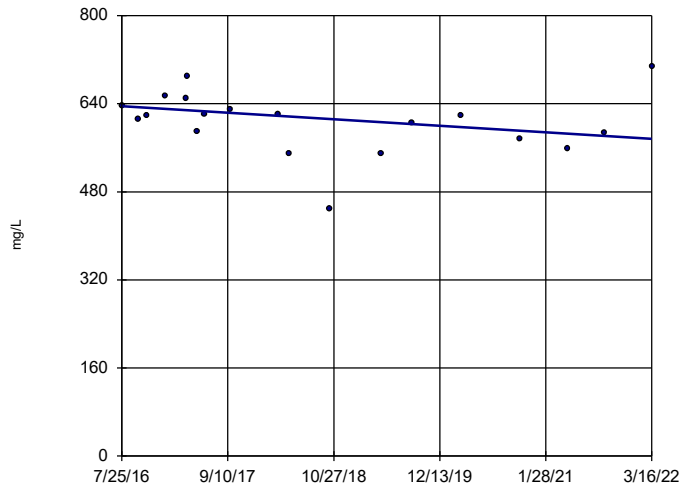


n = 19  
 Slope = 30.74  
 units per year.  
 Mann-Kendall  
 statistic = 48  
 critical = 74  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate as SO4 Analysis Run 5/18/2022 2:04 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

MR-AP-MW-11

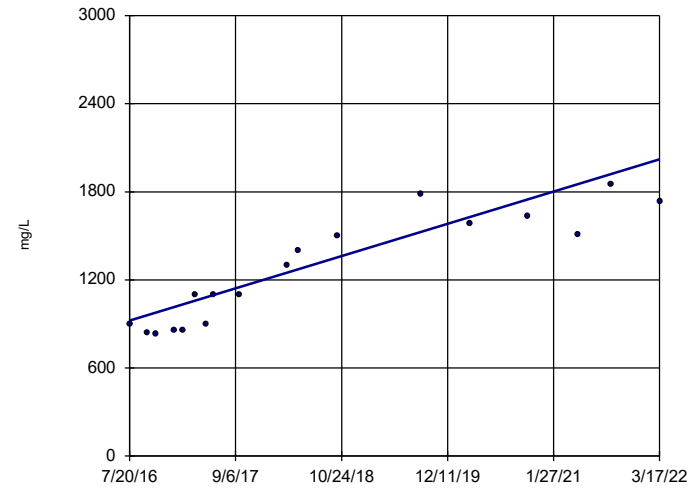


n = 19  
 Slope = -10.53  
 units per year.  
 Mann-Kendall  
 statistic = -46  
 critical = -74  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate as SO4 Analysis Run 5/18/2022 2:04 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

MR-AP-MW-12

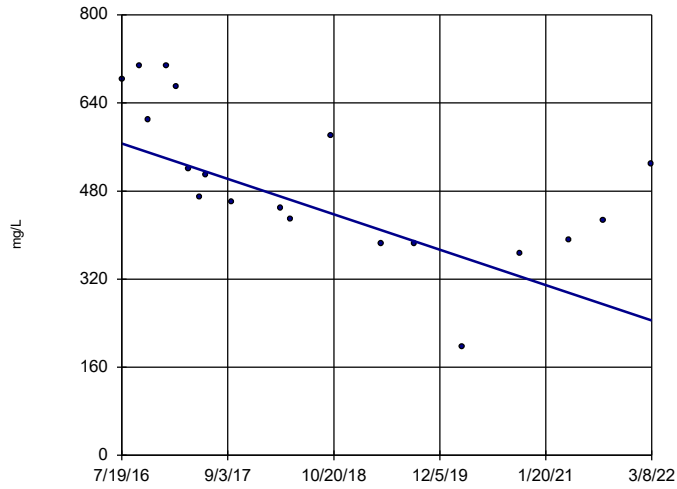


n = 18  
 Slope = 194.2  
 units per year.  
 Mann-Kendall  
 statistic = 124  
 critical = 68  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate as SO4 Analysis Run 5/18/2022 2:04 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

MR-AP-MW-16

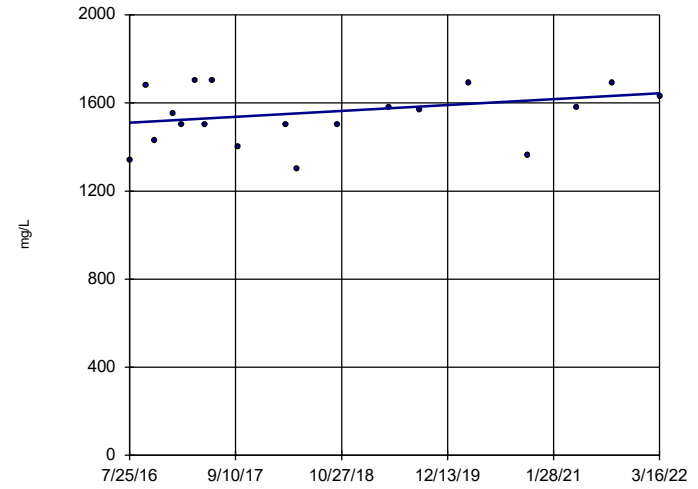


n = 19  
 Slope = -56.99  
 units per year.  
 Mann-Kendall  
 statistic = -104  
 critical = -74  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate as SO4 Analysis Run 5/18/2022 2:04 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

MR-AP-MW-2

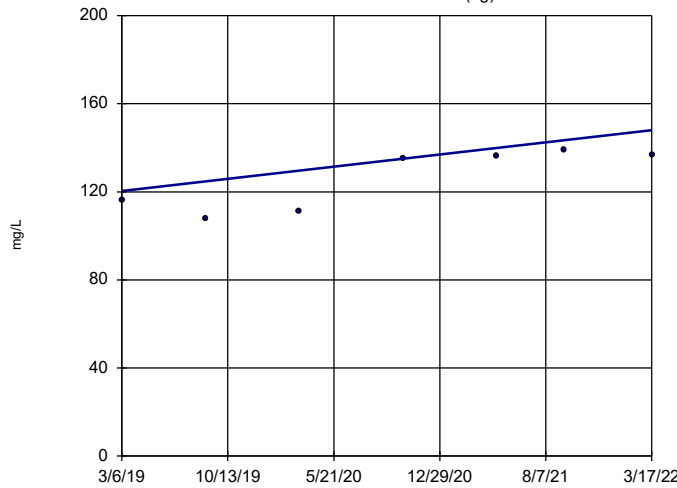


n = 19  
 Slope = 23.5  
 units per year.  
 Mann-Kendall  
 statistic = 32  
 critical = 74  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate as SO4 Analysis Run 5/18/2022 2:04 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

MR-AP-MW-21 (bg)

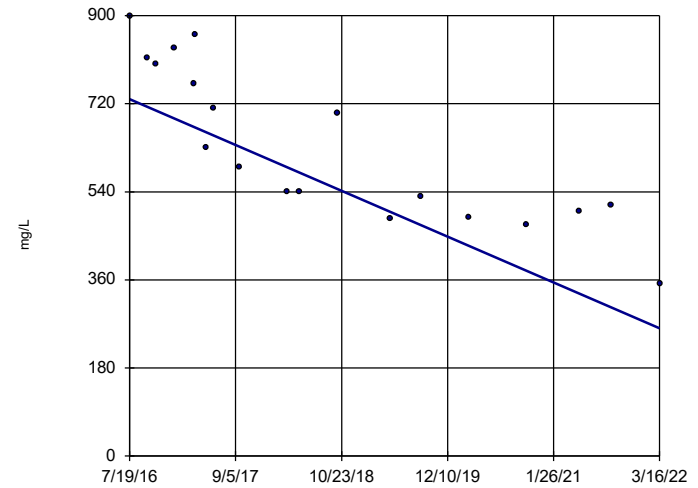


n = 7  
 Slope = 9.095  
 units per year.  
 Mann-Kendall  
 statistic = 15  
 critical = 18  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate as SO4 Analysis Run 5/18/2022 2:04 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

MR-AP-MW-3D

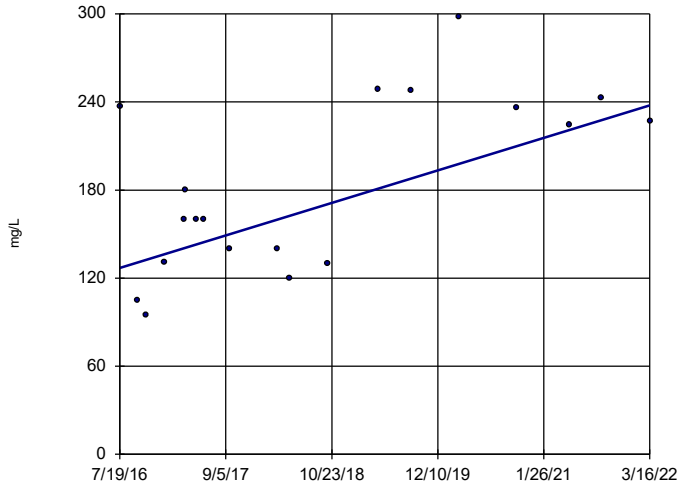


n = 19  
 Slope = -82.71  
 units per year.  
 Mann-Kendall  
 statistic = -130  
 critical = -74  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate as SO4 Analysis Run 5/18/2022 2:04 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

MR-AP-MW-3S

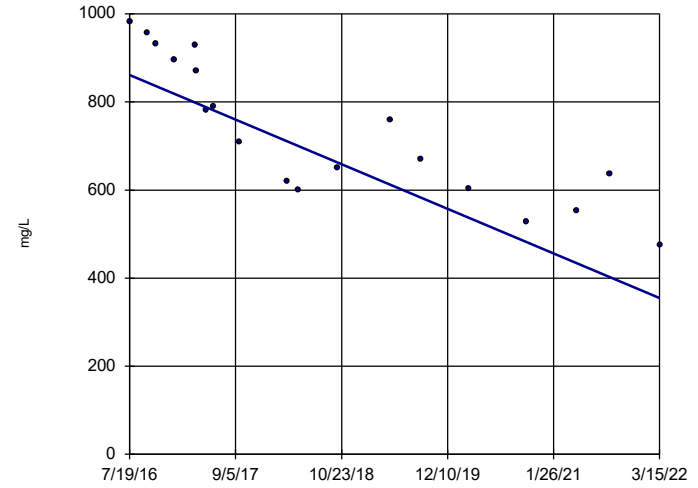


n = 19  
 Slope = 19.57  
 units per year.  
 Mann-Kendall  
 statistic = 57  
 critical = 74  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate as SO4 Analysis Run 5/18/2022 2:04 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

MR-AP-MW-4

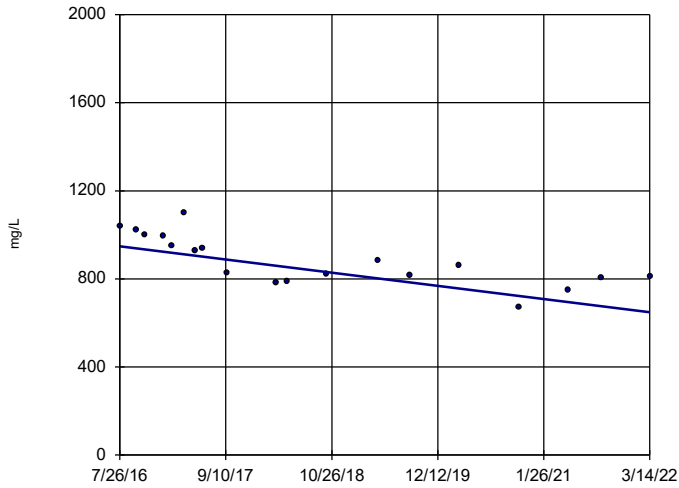


n = 19  
 Slope = -89.47  
 units per year.  
 Mann-Kendall  
 statistic = -135  
 critical = -74  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate as SO4 Analysis Run 5/18/2022 2:04 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

MR-AP-MW-5

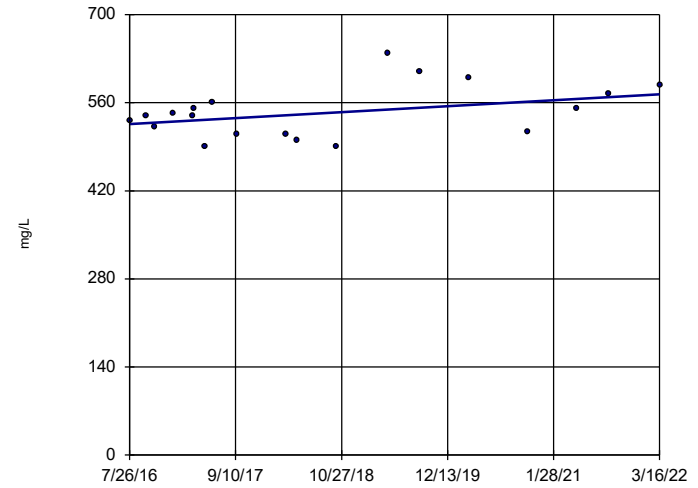


n = 19  
 Slope = -52.98  
 units per year.  
 Mann-Kendall  
 statistic = -111  
 critical = -74  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate as SO4 Analysis Run 5/18/2022 2:04 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

MR-AP-MW-6

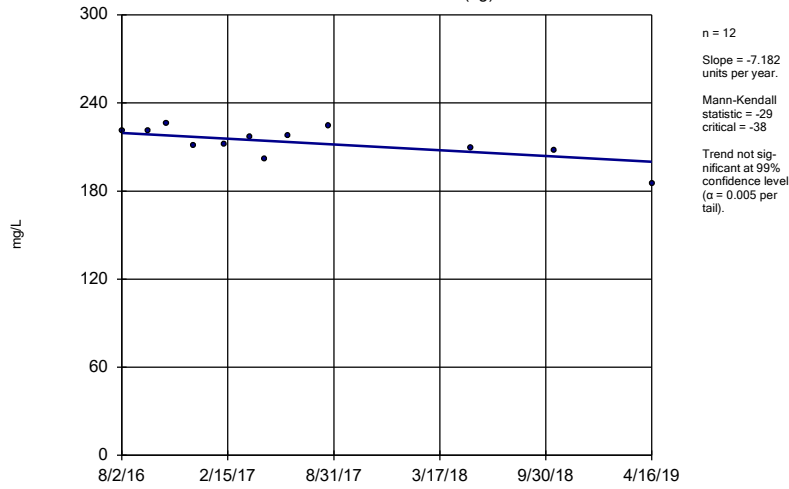


n = 19  
 Slope = 8.425  
 units per year.  
 Mann-Kendall  
 statistic = 38  
 critical = 74  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate as SO4 Analysis Run 5/18/2022 2:04 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

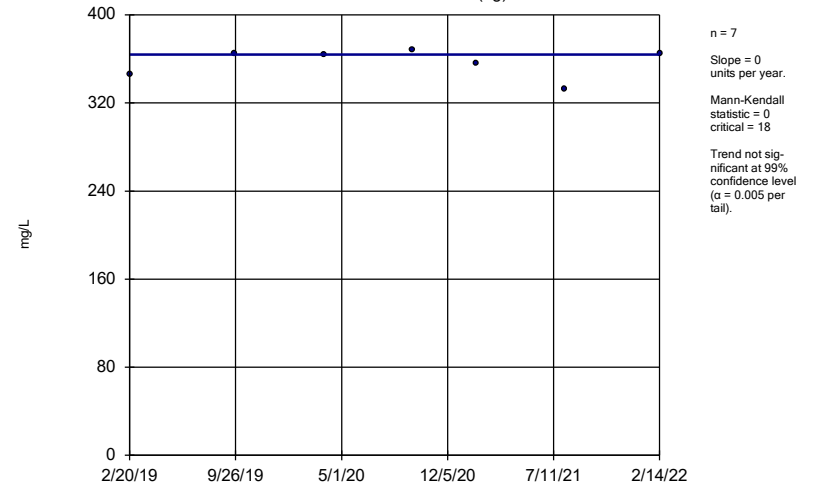


Sen's Slope Estimator  
GS-AP-MW-13 (bg)



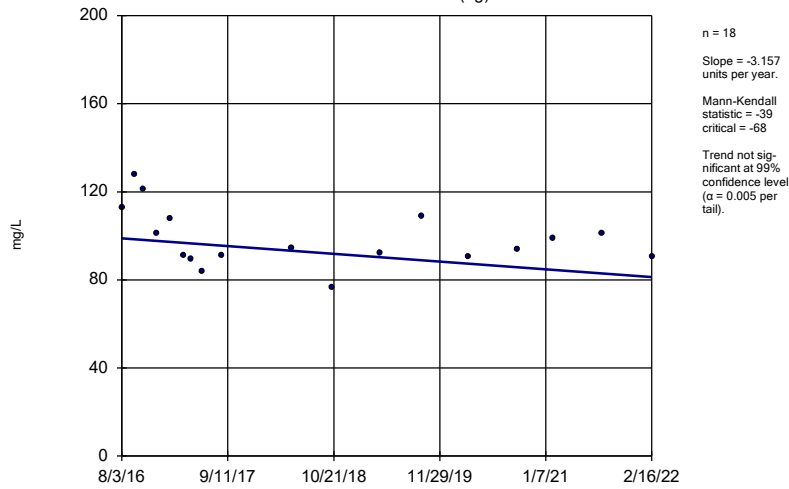
Constituent: Total Dissolved Solids [TDS] Analysis Run 5/18/2022 2:04 PM View: Trend  
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator  
GS-AP-MW-17V (bg)



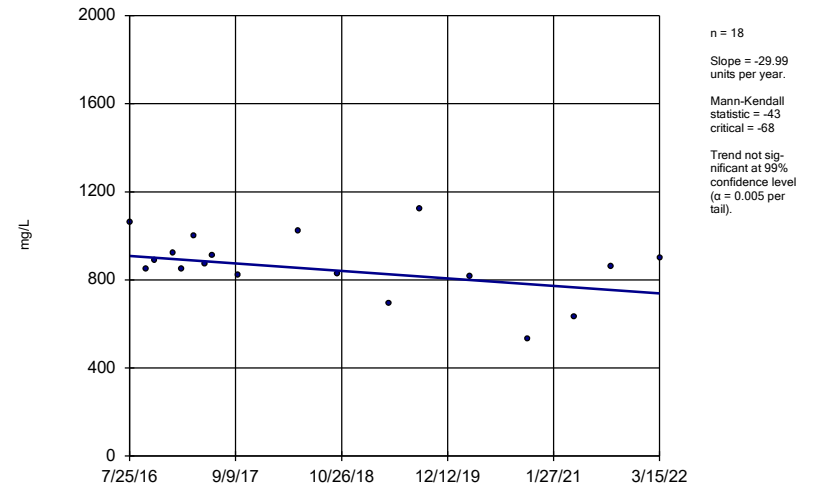
Constituent: Total Dissolved Solids [TDS] Analysis Run 5/18/2022 2:04 PM View: Trend  
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator  
GS-AP-MW-8 (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 5/18/2022 2:04 PM View: Trend  
Plant Miller Client: Southern Company Data: Miller Ash Pond

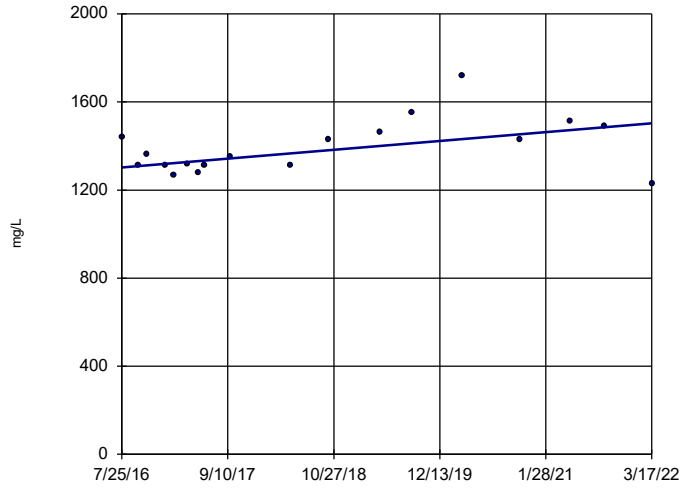
Sen's Slope Estimator  
MR-AP-MW-1



Constituent: Total Dissolved Solids [TDS] Analysis Run 5/18/2022 2:04 PM View: Trend  
Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

MR-AP-MW-10

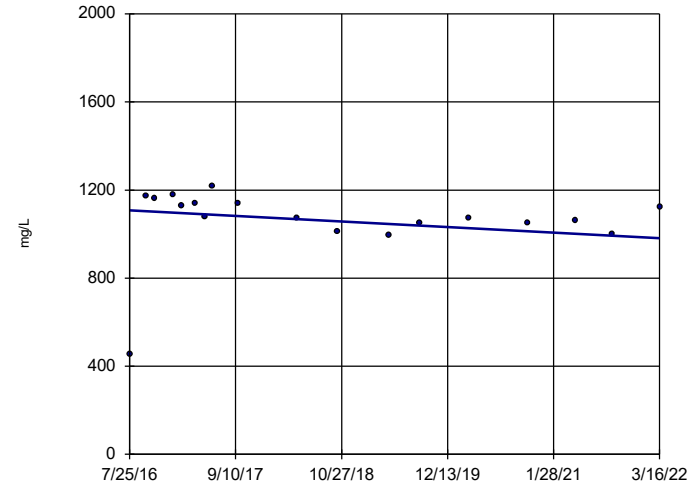


n = 18  
 Slope = 35.53  
 units per year.  
 Mann-Kendall  
 statistic = 44  
 critical = 68  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/18/2022 2:04 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

MR-AP-MW-11

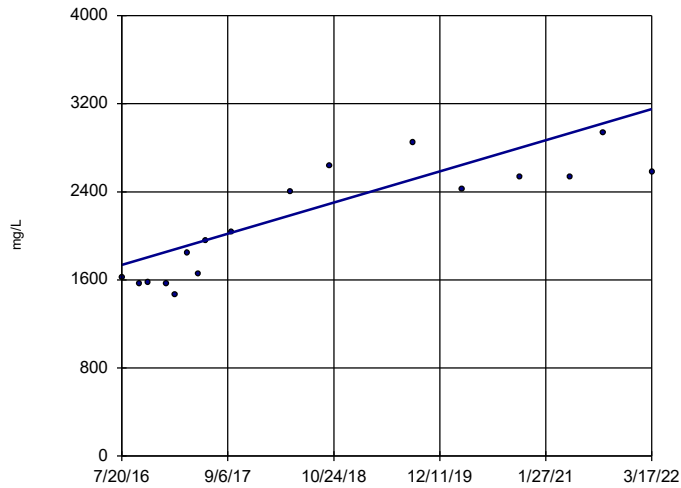


n = 18  
 Slope = -22.37  
 units per year.  
 Mann-Kendall  
 statistic = -52  
 critical = -68  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/18/2022 2:04 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

MR-AP-MW-12

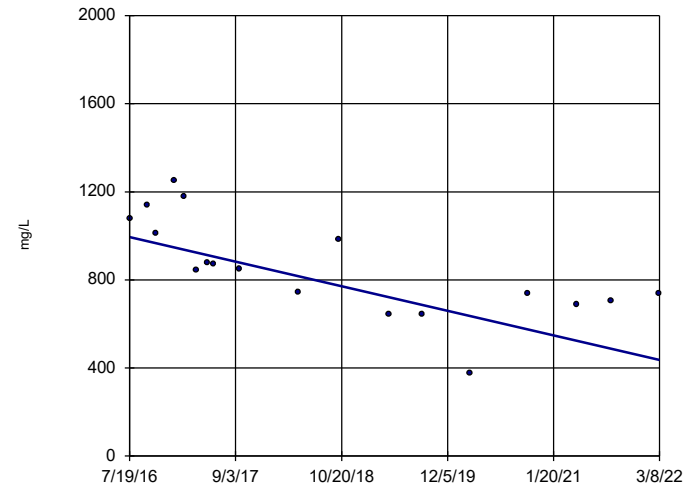


n = 17  
 Slope = 249.7  
 units per year.  
 Mann-Kendall  
 statistic = 98  
 critical = 63  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/18/2022 2:04 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

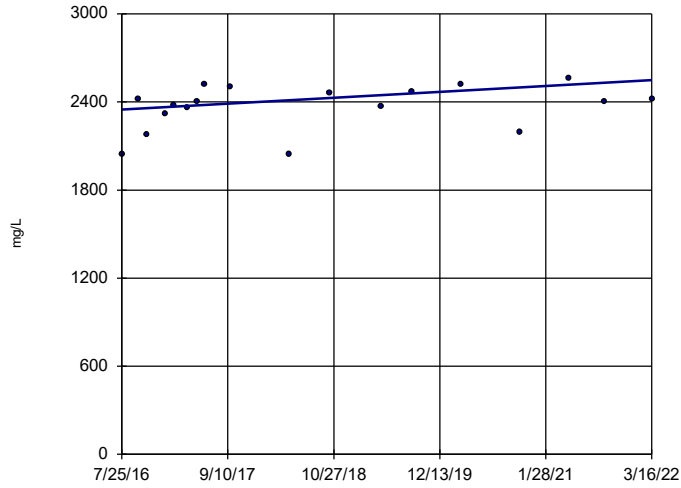
MR-AP-MW-16



n = 18  
 Slope = -98.91  
 units per year.  
 Mann-Kendall  
 statistic = -92  
 critical = -68  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/18/2022 2:04 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

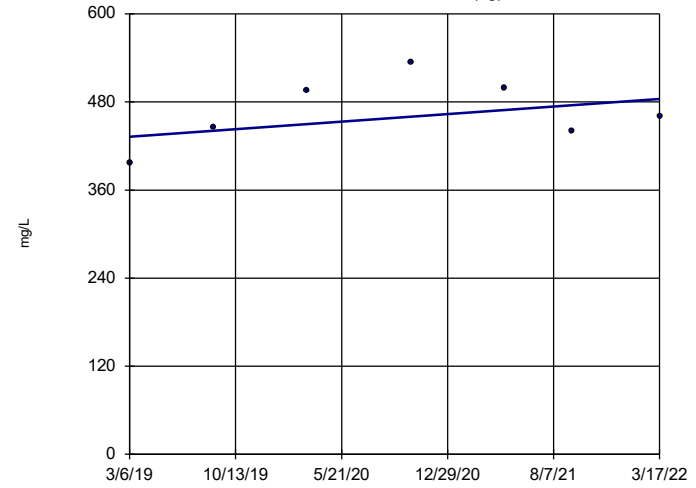
### Sen's Slope Estimator MR-AP-MW-2



n = 18  
 Slope = 35.55  
 units per year.  
 Mann-Kendall  
 statistic = 51  
 critical = 68  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/18/2022 2:04 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

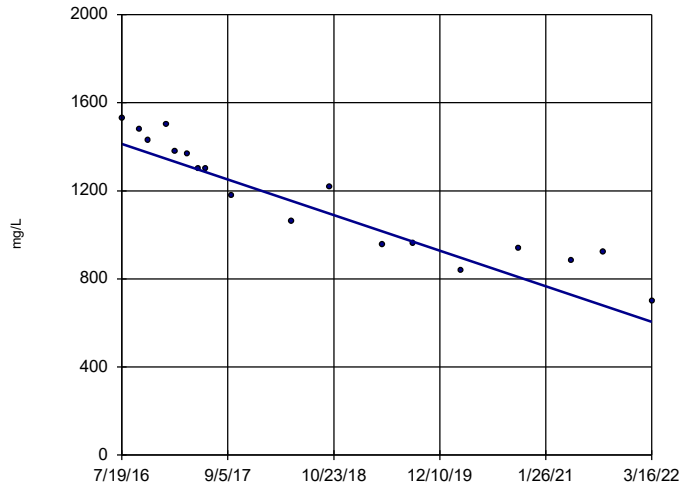
### Sen's Slope Estimator MR-AP-MW-21 (bg)



n = 7  
 Slope = 17  
 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 5/18/2022 2:04 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

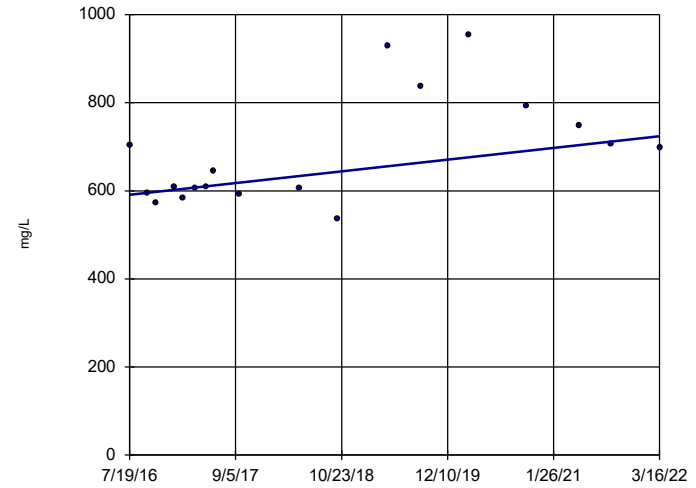
### Sen's Slope Estimator MR-AP-MW-3D



n = 18  
 Slope = -142.8  
 units per year.  
 Mann-Kendall  
 statistic = -134  
 critical = -68  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/18/2022 2:04 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator MR-AP-MW-3S

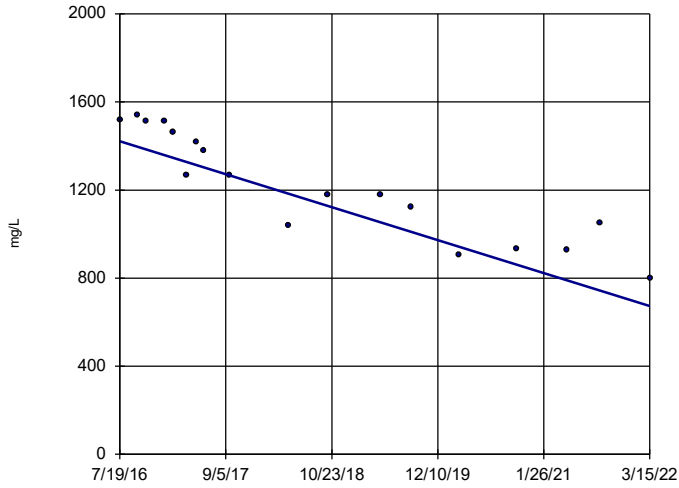


n = 18  
 Slope = 23.44  
 units per year.  
 Mann-Kendall  
 statistic = 49  
 critical = 68  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/18/2022 2:04 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

MR-AP-MW-4

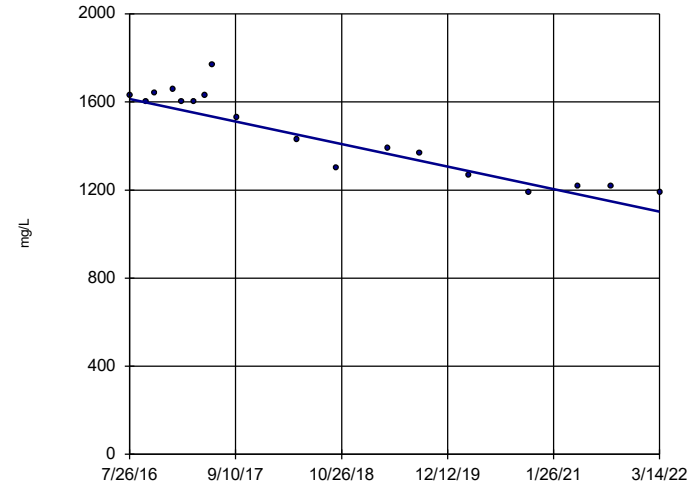


n = 18  
 Slope = -132.2  
 units per year.  
 Mann-Kendall  
 statistic = -126  
 critical = -68  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/18/2022 2:04 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

MR-AP-MW-5

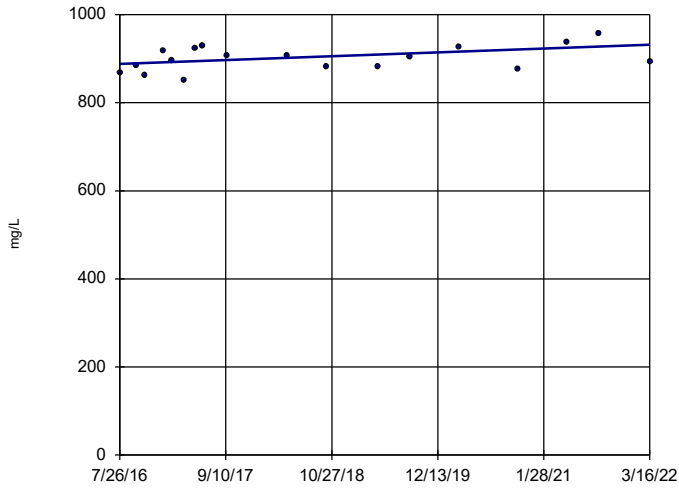


n = 18  
 Slope = -90.76  
 units per year.  
 Mann-Kendall  
 statistic = -109  
 critical = -68  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/18/2022 2:04 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

MR-AP-MW-6

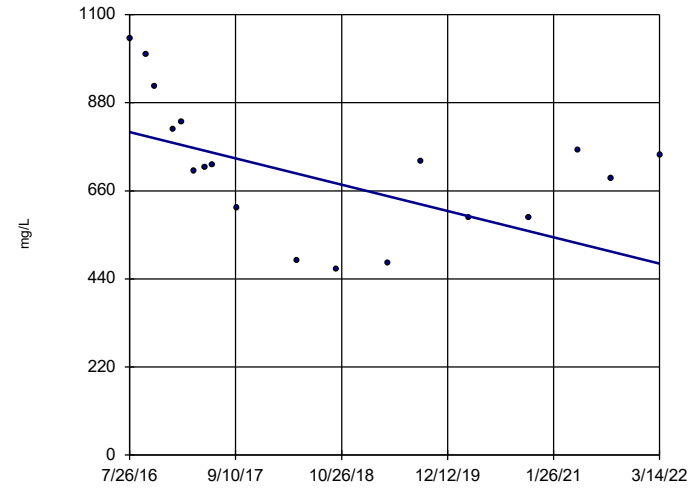


n = 18  
 Slope = 7.677  
 units per year.  
 Mann-Kendall  
 statistic = 41  
 critical = 68  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/18/2022 2:04 PM View: Trend  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Sen's Slope Estimator

MR-AP-PZ-5



n = 18  
 Slope = -58.25  
 units per year.  
 Mann-Kendall  
 statistic = -62  
 critical = -68  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/18/2022 2:04 PM View: Trend  
 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

FIGURE H.

<b>MILLER AP GWPS</b>			
<b>Analyte</b>	<b>Units</b>	<b>Background</b>	<b>GWPS</b>
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 Interval Summary Table - Significant Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 5/17/2022, 7:49 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Arsenic (mg/L)	MR-AP-MW-5	0.01307	0.01009	0.01	Yes	8	0	No	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-2	0.05746	0.03807	0.006	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-1	0.2081	0.09335	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-10	0.2072	0.17	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-11	0.388	0.2298	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-12	0.1889	0.1154	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-2	0.272	0.2205	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-3D	0.1237	0.1014	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-3S	0.353	0.2173	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-4	0.08411	0.06334	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-5	0.237	0.189	0.04	Yes	8	0	No	0.004	NP (normality)
Lithium (mg/L)	MR-AP-MW-6	0.08755	0.07642	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-7DR	0.1481	0.09443	0.04	Yes	4	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-7SR	0.1724	0.1266	0.04	Yes	4	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-9DR	0.0827	0.0682	0.04	Yes	4	0	No	0.0625	NP (normality)
Lithium (mg/L)	MR-AP-PZ-5	0.1692	0.1305	0.04	Yes	8	0	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-10	0.4863	0.1045	0.1	Yes	8	0	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-12	0.9847	0.2843	0.1	Yes	8	0	No	0.01	Param.

# Confidence Interval Summary Table - All Results

Plant Miller    Client: Southern Company    Data: Miller Ash Pond    Printed 5/17/2022, 7:49 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	MR-AP-MW-12	0.00102	0.00056	0.006	No	8	75	No	0.004	NP (normality)
Antimony (mg/L)	MR-AP-MW-16	0.00107	0.000768	0.006	No	8	75	No	0.004	NP (normality)
Antimony (mg/L)	MR-AP-MW-3D	0.00118	0.00102	0.006	No	8	87.5	No	0.004	NP (NDs)
Antimony (mg/L)	MR-AP-MW-3S	0.00126	0.00102	0.006	No	8	87.5	No	0.004	NP (NDs)
Antimony (mg/L)	MR-AP-PZ-5	0.00102	0.0009	0.006	No	8	87.5	No	0.004	NP (NDs)
Arsenic (mg/L)	MR-AP-MW-1	0.0058	0.00174	0.01	No	8	0	No	0.004	NP (normality)
Arsenic (mg/L)	MR-AP-MW-10	0.061	0.00142	0.01	No	8	0	No	0.004	NP (normality)
Arsenic (mg/L)	MR-AP-MW-11	0.0002	0.00008	0.01	No	8	62.5	No	0.004	NP (normality)
Arsenic (mg/L)	MR-AP-MW-12	0.006179	0.002261	0.01	No	8	0	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-13DR	0.0007872	0.00004582	0.01	No	4	25	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-13SR	0.00219	-0.0001203	0.01	No	4	25	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-14R	0.0003156	0.0001334	0.01	No	4	25	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-15	0.00083	0.0002	0.01	No	8	62.5	No	0.004	NP (normality)
Arsenic (mg/L)	MR-AP-MW-16	0.0009	0.0002	0.01	No	8	62.5	No	0.004	NP (normality)
Arsenic (mg/L)	MR-AP-MW-2	0.004198	0.002037	0.01	No	8	0	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-3D	0.015	0.01	0.01	No	8	0	No	0.004	NP (normality)
Arsenic (mg/L)	MR-AP-MW-3S	0.002416	0.000478	0.01	No	8	12.5	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-4	0.0004	0.0002	0.01	No	8	62.5	No	0.004	NP (normality)
<b>Arsenic (mg/L)</b>	<b>MR-AP-MW-5</b>	<b>0.01307</b>	<b>0.01009</b>	<b>0.01</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Arsenic (mg/L)	MR-AP-MW-6	0.0002	0.000104	0.01	No	8	75	No	0.004	NP (normality)
Arsenic (mg/L)	MR-AP-MW-7DR	0.007279	-0.002809	0.01	No	4	0	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-7SR	0.003068	0.001442	0.01	No	4	0	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-9DR	0.001084	0.00001924	0.01	No	4	25	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-9SR	0.001917	0.0002876	0.01	No	4	0	No	0.01	Param.
Arsenic (mg/L)	MR-AP-PZ-5	0.00166	0.000099	0.01	No	8	12.5	No	0.004	NP (normality)
Barium (mg/L)	MR-AP-MW-1	0.1037	0.0314	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-10	0.01822	0.01256	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-11	0.0411	0.03159	2	No	8	0	x^4	0.01	Param.
Barium (mg/L)	MR-AP-MW-12	0.01873	0.0143	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-13DR	0.1789	0.01345	2	No	4	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-13SR	0.05559	0.006662	2	No	4	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-14R	0.122	0.08837	2	No	4	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-15	0.06469	0.02841	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-16	0.02983	0.02022	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-2	0.0189	0.01473	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-3D	0.03509	0.02296	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-3S	0.3848	0.1147	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-4	0.01426	0.01199	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-5	0.01709	0.01504	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-6	0.02629	0.02331	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-7DR	0.03581	0.02089	2	No	4	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-7SR	0.04902	0.03698	2	No	4	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-9DR	0.04285	0.0353	2	No	4	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-9SR	0.0274	0.0169	2	No	4	0	No	0.0625	NP (normality)
Barium (mg/L)	MR-AP-PZ-5	0.261	0.1437	2	No	8	0	No	0.01	Param.
Beryllium (mg/L)	MR-AP-MW-13SR	0.001872	-0.001327	0.004	No	4	50	x^5	0.01	Param.
Cadmium (mg/L)	MR-AP-MW-1	0.0002	0.0002	0.005	No	8	100	No	0.004	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-10	0.0002	0.00009	0.005	No	8	87.5	No	0.004	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-12	0.0002	0.0000927	0.005	No	8	62.5	No	0.004	NP (normality)
Cadmium (mg/L)	MR-AP-MW-13SR	0.0002	0.0001	0.005	No	4	75	No	0.0625	NP (normality)
Cadmium (mg/L)	MR-AP-MW-16	0.0002	0.0002	0.005	No	8	100	No	0.004	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-2	0.0002	0.0002	0.005	No	8	100	No	0.004	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-4	0.0002	0.000073	0.005	No	8	75	No	0.004	NP (normality)
Chromium (mg/L)	MR-AP-MW-1	0.006345	0.001009	0.1	No	8	12.5	sqrt(x)	0.01	Param.
Chromium (mg/L)	MR-AP-MW-10	0.00139	0.00047	0.1	No	8	75	No	0.004	NP (normality)
Chromium (mg/L)	MR-AP-MW-11	0.00102	0.00027	0.1	No	8	75	No	0.004	NP (normality)
Chromium (mg/L)	MR-AP-MW-12	0.00102	0.00048	0.1	No	8	75	No	0.004	NP (normality)
Chromium (mg/L)	MR-AP-MW-13DR	0.0003862	0.0001523	0.1	No	4	50	sqrt(x)	0.01	Param.
Chromium (mg/L)	MR-AP-MW-13SR	0.000848	-0.00008623	0.1	No	4	25	No	0.01	Param.
Chromium (mg/L)	MR-AP-MW-14R	0.0005677	0.0001113	0.1	No	4	50	No	0.01	Param.
Chromium (mg/L)	MR-AP-MW-15	0.00102	0.00028	0.1	No	8	75	No	0.004	NP (normality)
Chromium (mg/L)	MR-AP-MW-16	0.00102	0.00067	0.1	No	8	87.5	No	0.004	NP (NDs)
Chromium (mg/L)	MR-AP-MW-2	0.00102	0.00021	0.1	No	8	75	No	0.004	NP (normality)
Chromium (mg/L)	MR-AP-MW-3D	0.00102	0.00027	0.1	No	8	75	No	0.004	NP (normality)
Chromium (mg/L)	MR-AP-MW-3S	0.00102	0.00034	0.1	No	8	62.5	No	0.004	NP (normality)
Chromium (mg/L)	MR-AP-MW-4	0.00102	0.00029	0.1	No	8	87.5	No	0.004	NP (NDs)
Chromium (mg/L)	MR-AP-MW-5	0.00102	0.00027	0.1	No	8	87.5	No	0.004	NP (NDs)
Chromium (mg/L)	MR-AP-MW-6	0.00102	0.00023	0.1	No	8	75	No	0.004	NP (normality)

# Confidence Interval Summary Table - All Results

Plant Miller    Client: Southern Company    Data: Miller Ash Pond    Printed 5/17/2022, 7:49 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Chromium (mg/L)	MR-AP-MW-7DR	0.00102	0.0003	0.1	No	4	75	No	0.0625	NP (normality)
Chromium (mg/L)	MR-AP-MW-7SR	0.00102	0.000219	0.1	No	4	25	No	0.0625	NP (normality)
Chromium (mg/L)	MR-AP-MW-9DR	0.00102	0.00024	0.1	No	4	25	No	0.0625	NP (normality)
Chromium (mg/L)	MR-AP-MW-9SR	0.0003686	0.0001473	0.1	No	4	25	ln(x)	0.01	Param.
Chromium (mg/L)	MR-AP-PZ-5	0.00102	0.00021	0.1	No	8	75	No	0.004	NP (normality)
Cobalt (mg/L)	MR-AP-MW-1	0.00038	0.00008	0.006	No	8	62.5	No	0.004	NP (normality)
Cobalt (mg/L)	MR-AP-MW-10	0.00091	0.0002	0.006	No	8	62.5	No	0.004	NP (normality)
Cobalt (mg/L)	MR-AP-MW-11	0.0002	0.0002	0.006	No	8	100	No	0.004	NP (NDs)
Cobalt (mg/L)	MR-AP-MW-12	0.00211	0.0002	0.006	No	8	50	No	0.004	NP (normality)
Cobalt (mg/L)	MR-AP-MW-13DR	0.001172	0.00004789	0.006	No	4	25	No	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-13SR	0.133	-0.01922	0.006	No	4	0	No	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-14R	0.0002	0.0000688	0.006	No	4	75	No	0.0625	NP (normality)
Cobalt (mg/L)	MR-AP-MW-15	0.0021	0.0002	0.006	No	8	50	No	0.004	NP (normality)
Cobalt (mg/L)	MR-AP-MW-16	0.004604	0.0001461	0.006	No	8	37.5	No	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>MR-AP-MW-2</b>	<b>0.05746</b>	<b>0.03807</b>	<b>0.006</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	MR-AP-MW-3D	0.006128	0.004109	0.006	No	8	0	No	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-4	0.01674	0.005429	0.006	No	8	0	No	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-6	0.04361	0.003388	0.006	No	8	0	sqrt(x)	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-7SR	0.001183	0.00005491	0.006	No	4	25	No	0.001	Param.
Cobalt (mg/L)	MR-AP-MW-9DR	0.0002283	0.0000547	0.006	No	4	25	No	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-9SR	0.0003763	0.00005923	0.006	No	4	25	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-1	0.754	0.312	5	No	8	0	No	0.004	NP (normality)
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-10	1.065	0.1872	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-11	0.4972	0.1514	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-12	1.123	0.2547	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-13DR	1.169	-0.06369	5	No	4	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-13SR	1.624	-0.5434	5	No	4	0	x^2	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-14R	0.7822	-0.3622	5	No	4	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-15	0.6592	0.1336	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-16	1.15	-0.0538	5	No	8	0	No	0.004	NP (normality)
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-2	0.8815	0.2887	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-3D	0.7791	-0.03668	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-3S	0.9054	-0.0004814	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-4	0.4736	0.1624	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-5	1.035	0.2397	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-6	0.4309	0.1337	5	No	8	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-7DR	2.265	0.008515	5	No	4	0	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-7SR	1.046	0.2137	5	No	4	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-9DR	1.331	-0.1272	5	No	4	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-9SR	0.5566	-0.007624	5	No	4	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-PZ-5	0.6921	0.1031	5	No	8	0	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-1	0.1855	0.146	4	No	8	0	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-10	1.86	0.433	4	No	8	0	No	0.004	NP (normality)
Fluoride, total (mg/L)	MR-AP-MW-11	0.1415	0.1115	4	No	8	0	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-12	1.083	0.7503	4	No	8	0	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-13DR	0.2155	0.1055	4	No	4	0	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-13SR	0.668	0.3025	4	No	4	0	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-14R	0.197	0.154	4	No	4	0	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-15	0.1301	0.1035	4	No	8	0	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-16	0.2361	0.1371	4	No	8	0	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-2	0.3298	0.1227	4	No	8	0	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-3D	0.4095	0.3468	4	No	8	0	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-3S	0.3419	0.2873	4	No	8	0	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-4	0.2896	0.1839	4	No	8	0	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-5	0.4294	0.3849	4	No	8	0	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-6	0.1665	0.1055	4	No	8	0	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-7DR	0.1687	0.09626	4	No	4	25	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-7SR	0.2607	0.2053	4	No	4	0	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-9DR	0.2311	0.06135	4	No	4	0	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-9SR	0.1791	0.08386	4	No	4	0	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-PZ-5	2.37	1.485	4	No	8	0	No	0.01	Param.
Lead (mg/L)	MR-AP-MW-13DR	0.0002	0.000121	0.015	No	4	75	No	0.0625	NP (normality)
Lead (mg/L)	MR-AP-MW-13SR	0.0002	0.00011	0.015	No	4	75	No	0.0625	NP (normality)
Lead (mg/L)	MR-AP-MW-3D	0.0002	0.000084	0.015	No	8	87.5	No	0.004	NP (NDs)
<b>Lithium (mg/L)</b>	<b>MR-AP-MW-1</b>	<b>0.2081</b>	<b>0.09335</b>	<b>0.04</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Lithium (mg/L)</b>	<b>MR-AP-MW-10</b>	<b>0.2072</b>	<b>0.17</b>	<b>0.04</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Lithium (mg/L)</b>	<b>MR-AP-MW-11</b>	<b>0.388</b>	<b>0.2298</b>	<b>0.04</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Lithium (mg/L)</b>	<b>MR-AP-MW-12</b>	<b>0.1889</b>	<b>0.1154</b>	<b>0.04</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>

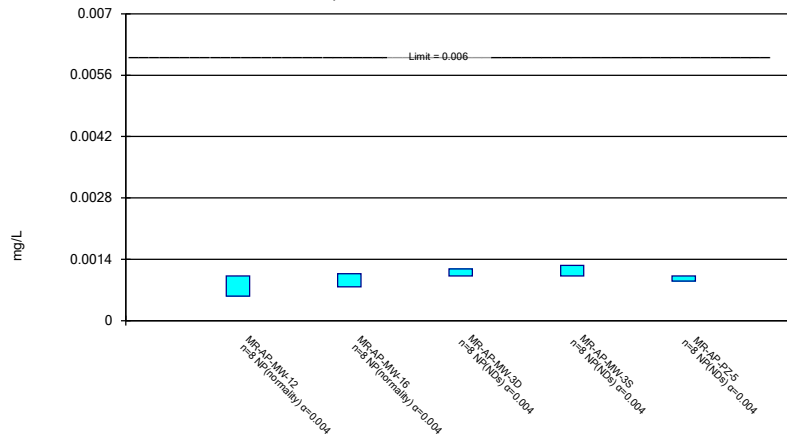
# Confidence Interval Summary Table - All Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 5/17/2022, 7:49 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Lithium (mg/L)	MR-AP-MW-13DR	0.03913	0.02917	0.04	No	4	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-13SR	0.06054	0.01048	0.04	No	4	0	x^(1/3)	0.01	Param.
Lithium (mg/L)	MR-AP-MW-14R	0.02231	0.01899	0.04	No	4	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-15	0.02018	0.01855	0.04	No	8	12.5	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-16	0.1218	0.02708	0.04	No	8	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-2	0.272	0.2205	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-3D	0.1237	0.1014	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-3S	0.353	0.2173	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-4	0.08411	0.06334	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-5	0.237	0.189	0.04	Yes	8	0	No	0.004	NP (normality)
Lithium (mg/L)	MR-AP-MW-6	0.08755	0.07642	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-7DR	0.1481	0.09443	0.04	Yes	4	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-7SR	0.1724	0.1266	0.04	Yes	4	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-9DR	0.0827	0.0682	0.04	Yes	4	0	No	0.0625	NP (normality)
Lithium (mg/L)	MR-AP-MW-9SR	0.05003	0.03632	0.04	No	4	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-PZ-5	0.1692	0.1305	0.04	Yes	8	0	No	0.01	Param.
Mercury (mg/L)	MR-AP-MW-15	0.0005	0.000316	0.002	No	8	87.5	No	0.004	NP (NDs)
Mercury (mg/L)	MR-AP-MW-3S	0.0005	0.000318	0.002	No	8	87.5	No	0.004	NP (NDs)
Mercury (mg/L)	MR-AP-MW-5	0.0005	0.000319	0.002	No	8	87.5	No	0.004	NP (NDs)
Mercury (mg/L)	MR-AP-PZ-5	0.0005	0.000311	0.002	No	8	87.5	No	0.004	NP (NDs)
Molybdenum (mg/L)	MR-AP-MW-1	0.0117	0.005197	0.1	No	8	0	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-10	0.4863	0.1045	0.1	Yes	8	0	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-11	0.00075	0.000203	0.1	No	8	62.5	No	0.004	NP (normality)
Molybdenum (mg/L)	MR-AP-MW-12	0.9847	0.2843	0.1	Yes	8	0	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-13DR	0.007366	0.00002412	0.1	No	4	0	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-13SR	0.009842	0.00001489	0.1	No	4	0	ln(x)	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-14R	0.0001845	0.00006012	0.1	No	4	25	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-15	0.000203	0.00008	0.1	No	8	75	No	0.004	NP (normality)
Molybdenum (mg/L)	MR-AP-MW-16	0.07388	0.009749	0.1	No	8	0	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-2	0.00458	0.000203	0.1	No	8	50	No	0.004	NP (normality)
Molybdenum (mg/L)	MR-AP-MW-3D	0.02676	0.02376	0.1	No	8	0	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-3S	0.06339	0.04228	0.1	No	8	0	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-4	0.000203	0.00007	0.1	No	8	62.5	No	0.004	NP (normality)
Molybdenum (mg/L)	MR-AP-MW-5	0.0877	0.0686	0.1	No	8	0	No	0.004	NP (normality)
Molybdenum (mg/L)	MR-AP-MW-6	0.004552	0.0006613	0.1	No	8	12.5	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-7DR	0.005661	0.003289	0.1	No	4	0	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-7SR	0.03751	0.03069	0.1	No	4	0	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-9DR	0.001549	0.00001102	0.1	No	4	25	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-9SR	0.003083	-0.0008982	0.1	No	4	0	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-PZ-5	0.000438	0.000203	0.1	No	8	62.5	No	0.004	NP (normality)
Selenium (mg/L)	MR-AP-MW-16	0.00629	0.000975	0.05	No	8	37.5	No	0.004	NP (normality)
Selenium (mg/L)	MR-AP-MW-4	0.00112	0.00077	0.05	No	8	75	No	0.004	NP (normality)
Thallium (mg/L)	MR-AP-MW-13SR	0.0001529	0.00003384	0.002	No	4	25	No	0.01	Param.
Thallium (mg/L)	MR-AP-MW-16	0.0002	0.00007	0.002	No	8	75	No	0.004	NP (normality)
Thallium (mg/L)	MR-AP-MW-2	0.0002	0.0002	0.002	No	8	100	No	0.004	NP (NDs)
Thallium (mg/L)	MR-AP-MW-4	0.0002	0.00007	0.002	No	8	87.5	No	0.004	NP (NDs)

### Non-Parametric Confidence Interval

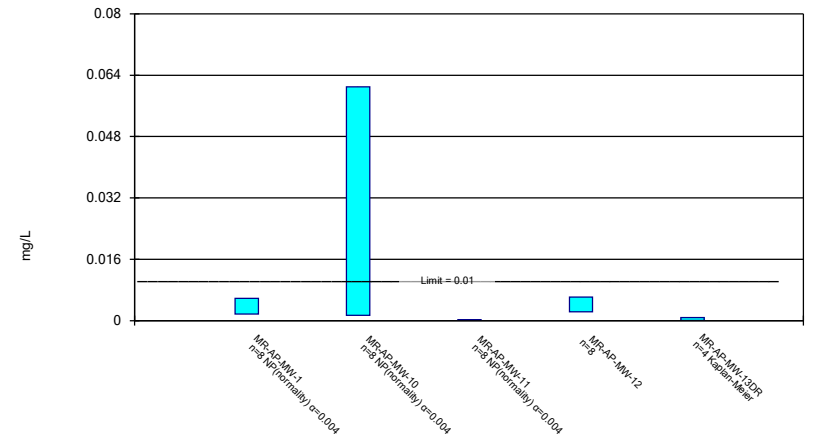
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Constituent: Antimony Analysis Run 5/17/2022 7:47 PM View: AIV  
Plant Miller Client: Southern Company Data: Miller Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

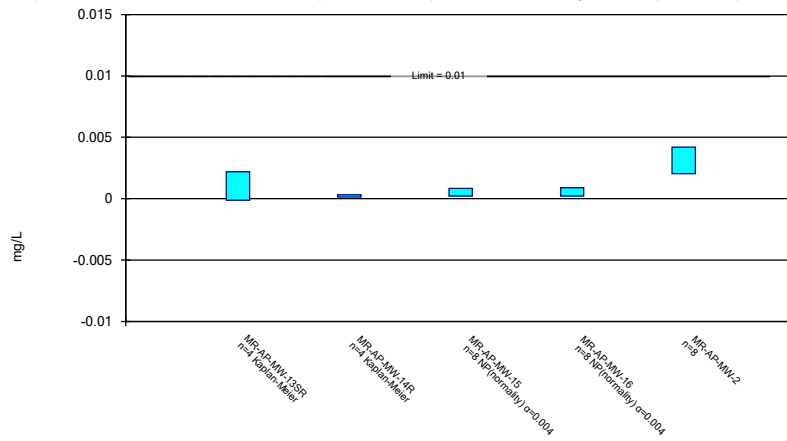
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Constituent: Arsenic Analysis Run 5/17/2022 7:47 PM View: AIV  
Plant Miller Client: Southern Company Data: Miller Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

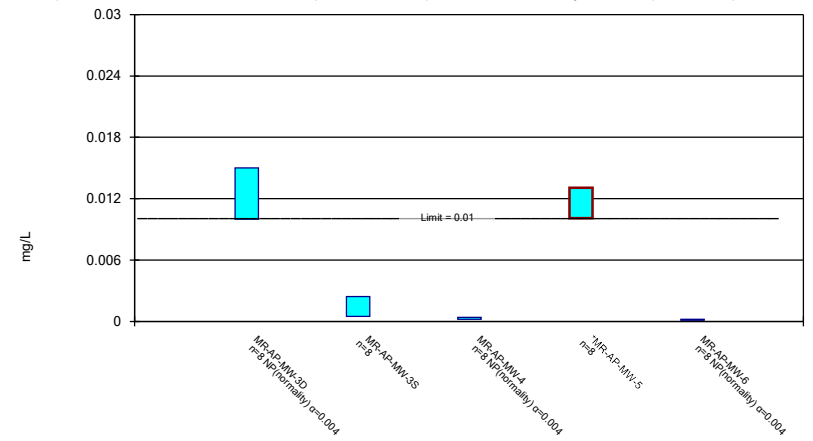
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Constituent: Arsenic Analysis Run 5/17/2022 7:47 PM View: AIV  
Plant Miller Client: Southern Company Data: Miller Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

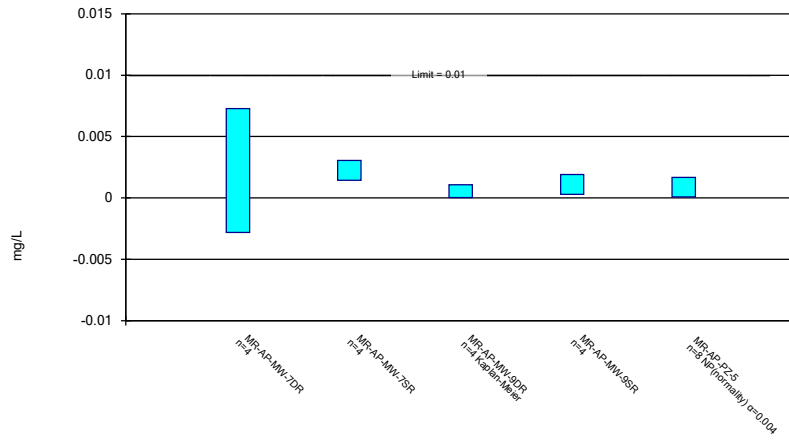
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Constituent: Arsenic Analysis Run 5/17/2022 7:47 PM View: AIV  
Plant Miller Client: Southern Company Data: Miller Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

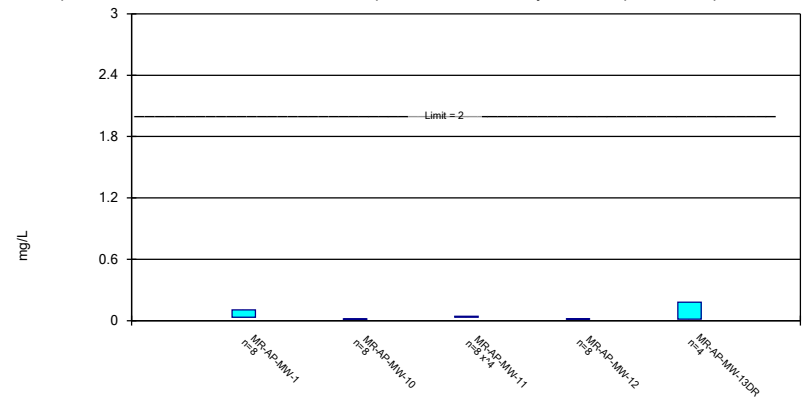
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Constituent: Arsenic Analysis Run 5/17/2022 7:47 PM View: AIV  
Plant Miller Client: Southern Company Data: Miller Ash Pond

### Parametric Confidence Interval

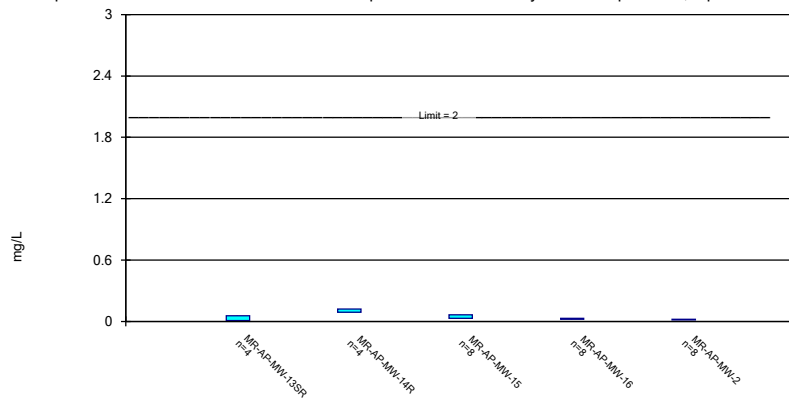
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Constituent: Barium Analysis Run 5/17/2022 7:47 PM View: AIV  
Plant Miller Client: Southern Company Data: Miller Ash Pond

### Parametric Confidence Interval

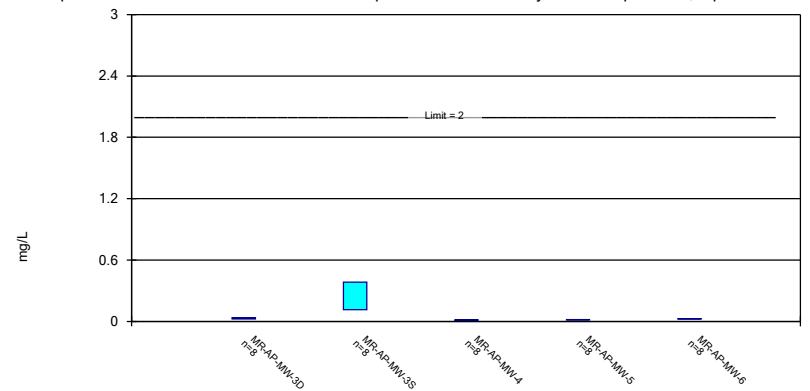
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Constituent: Barium Analysis Run 5/17/2022 7:47 PM View: AIV  
Plant Miller Client: Southern Company Data: Miller Ash Pond

### Parametric Confidence Interval

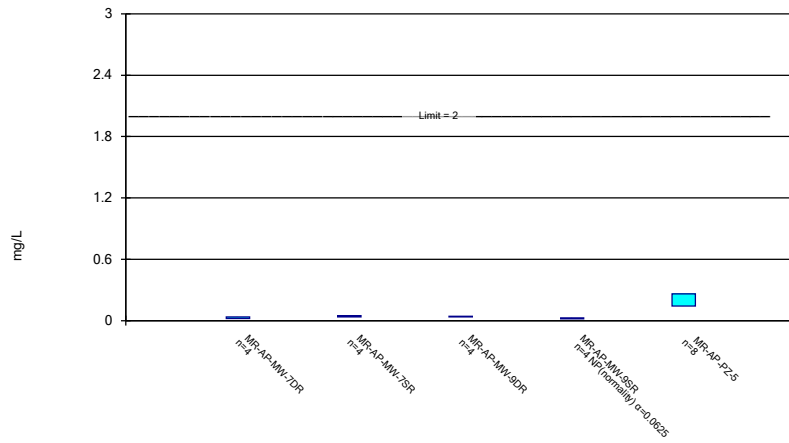
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Plant Miller Client: Southern Company Data: Miller Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

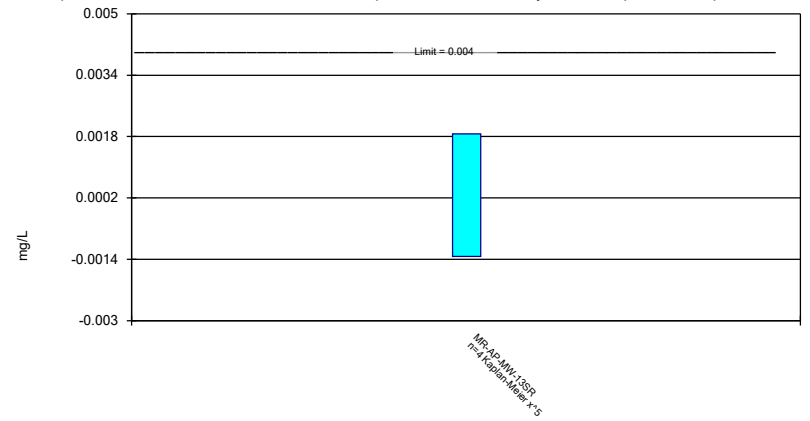
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Constituent: Barium Analysis Run 5/17/2022 7:47 PM View: AIV  
Plant Miller Client: Southern Company Data: Miller Ash Pond

### Parametric Confidence Interval

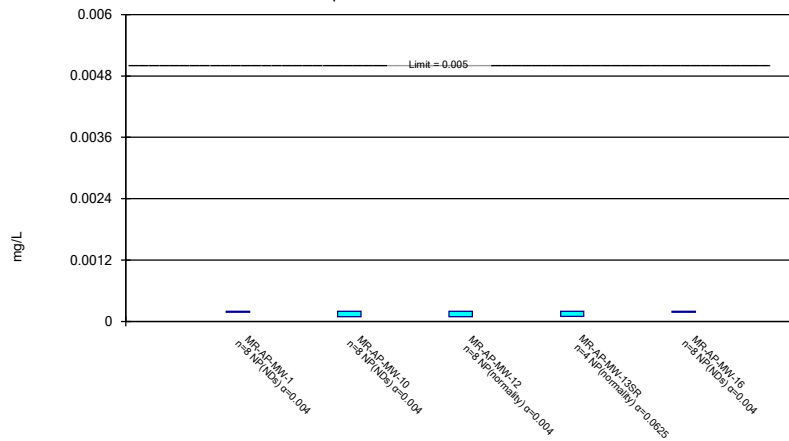
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Constituent: Beryllium Analysis Run 5/17/2022 7:47 PM View: AIV  
Plant Miller Client: Southern Company Data: Miller Ash Pond

### Non-Parametric Confidence Interval

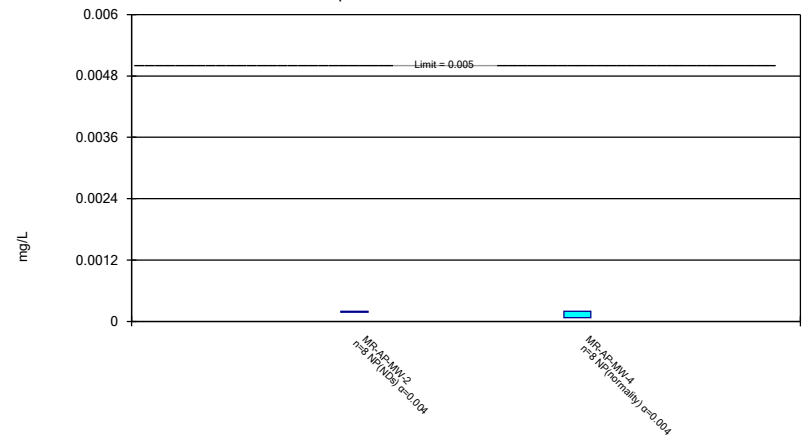
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Constituent: Cadmium Analysis Run 5/17/2022 7:47 PM View: AIV  
Plant Miller Client: Southern Company Data: Miller Ash Pond

### Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

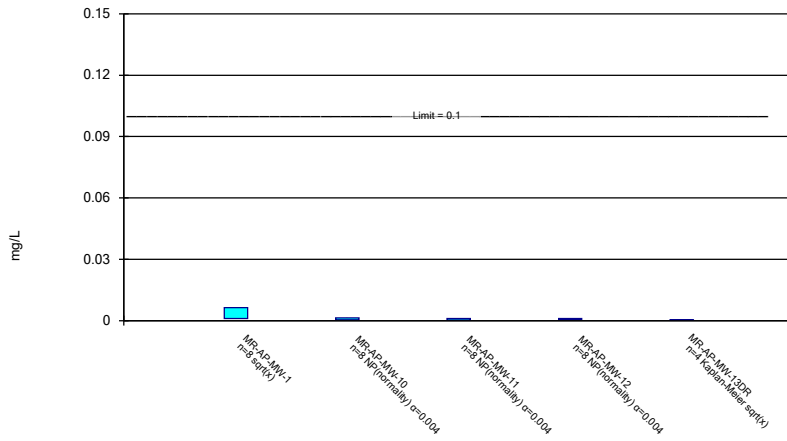


Constituent: Cadmium Analysis Run 5/17/2022 7:47 PM View: AIV  
Plant Miller Client: Southern Company Data: Miller Ash Pond



### Parametric and Non-Parametric (NP) Confidence Interval

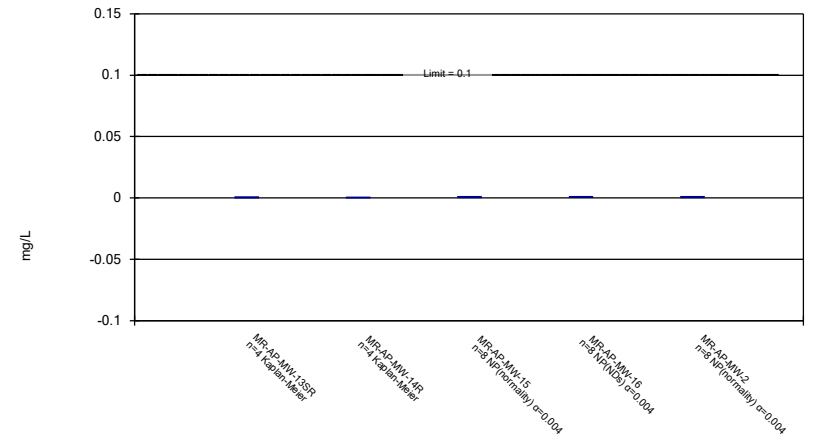
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Constituent: Chromium Analysis Run 5/17/2022 7:47 PM View: AIV  
Plant Miller Client: Southern Company Data: Miller Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

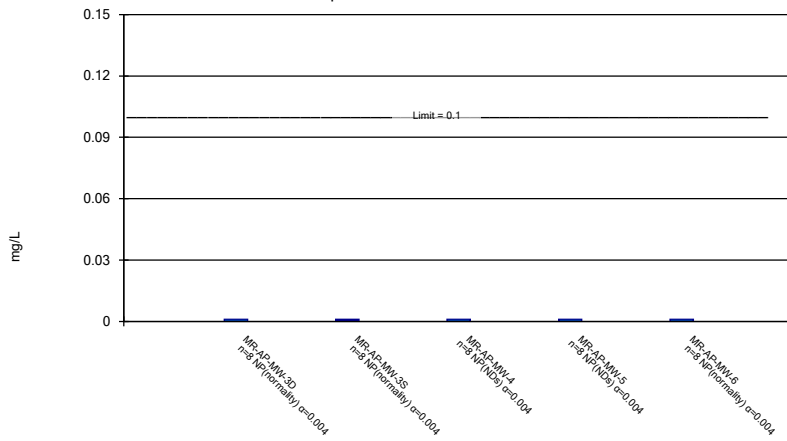
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 5/17/2022 7:47 PM View: AIV  
Plant Miller Client: Southern Company Data: Miller Ash Pond

### Non-Parametric Confidence Interval

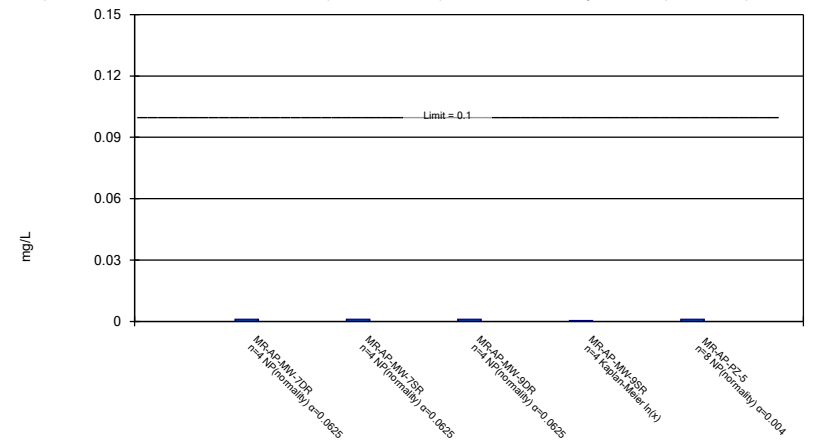
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Constituent: Chromium Analysis Run 5/17/2022 7:47 PM View: AIV  
Plant Miller Client: Southern Company Data: Miller Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

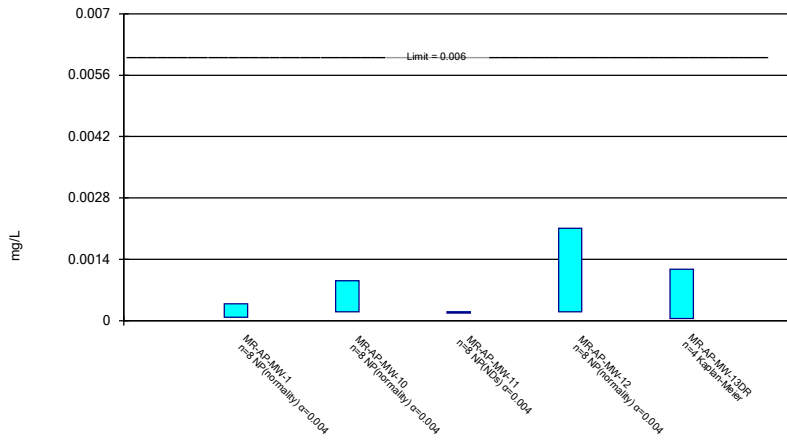
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 5/17/2022 7:47 PM View: AIV  
Plant Miller Client: Southern Company Data: Miller Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

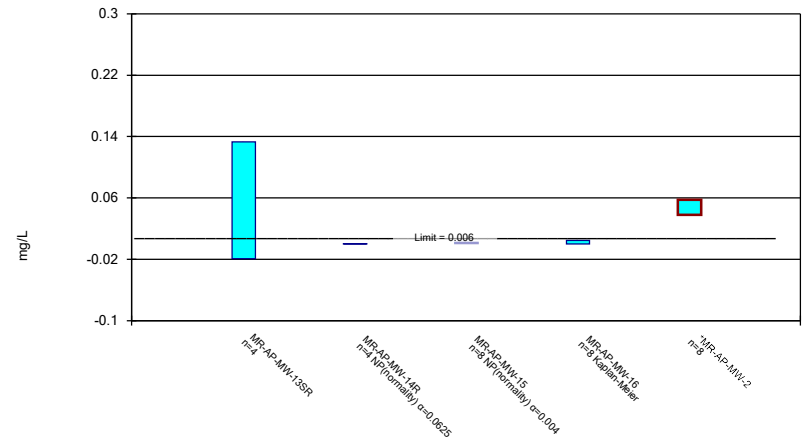
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 5/17/2022 7:47 PM View: AIV  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

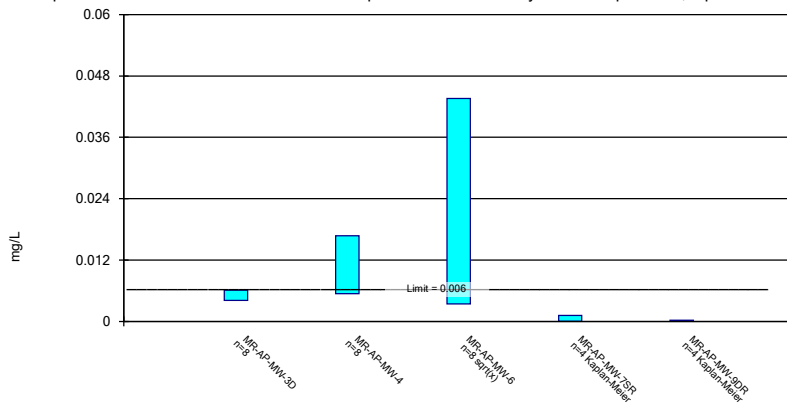
Compliance limit is exceeded.\* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 5/17/2022 7:47 PM View: AIV  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Parametric Confidence Interval

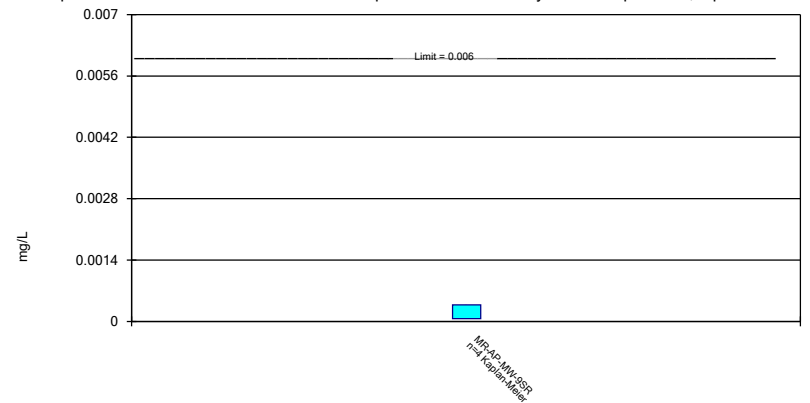
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 5/17/2022 7:47 PM View: AIV  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Parametric Confidence Interval

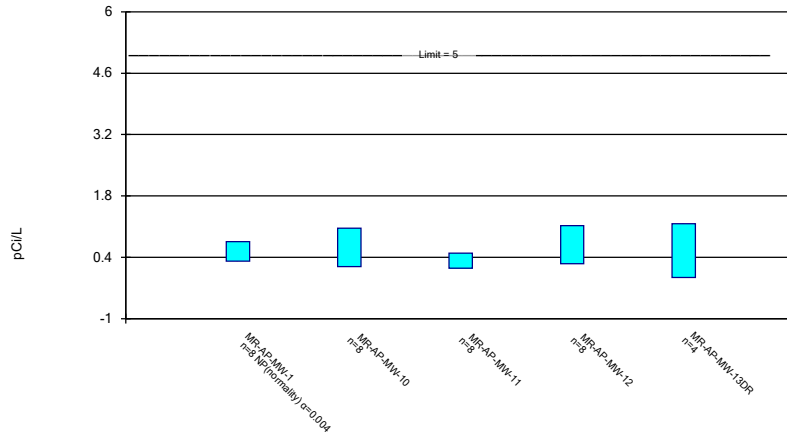
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 5/17/2022 7:48 PM View: AIV  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

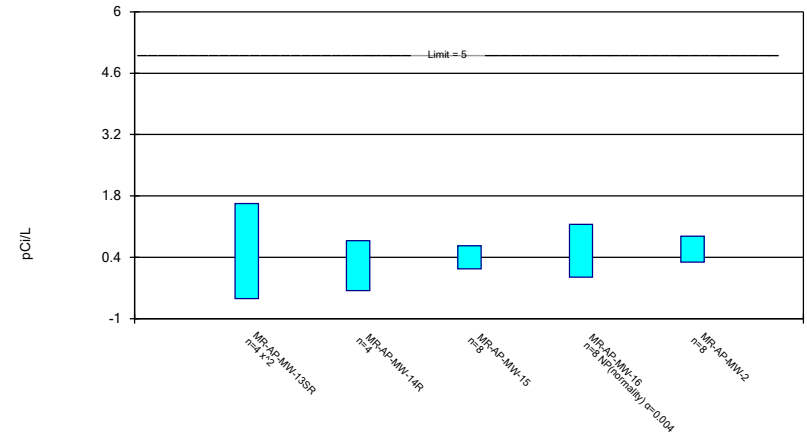
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/17/2022 7:48 PM View: AIV  
Plant Miller Client: Southern Company Data: Miller Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

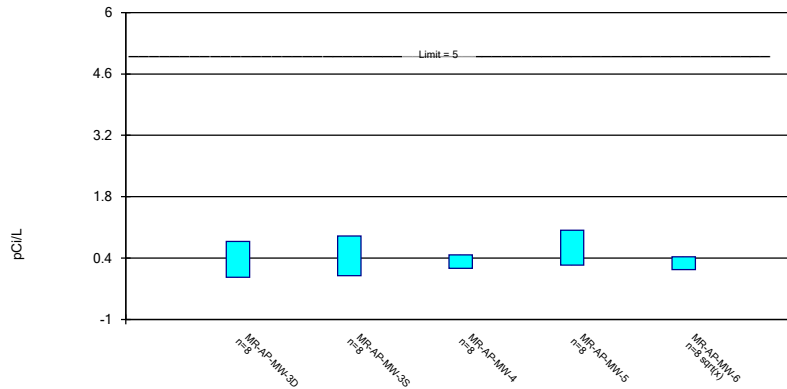
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/17/2022 7:48 PM View: AIV  
Plant Miller Client: Southern Company Data: Miller Ash Pond

### Parametric Confidence Interval

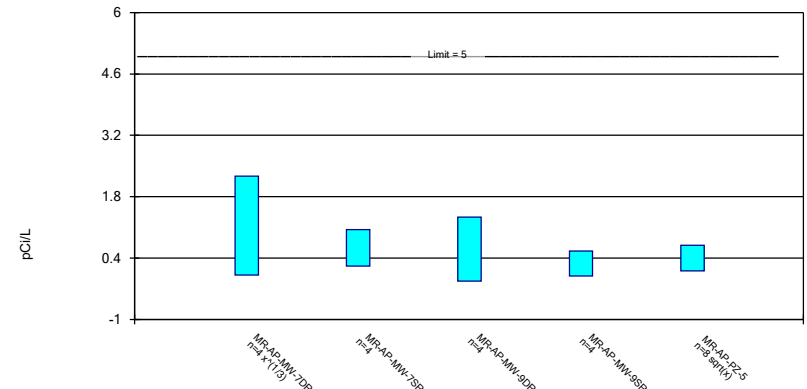
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/17/2022 7:48 PM View: AIV  
Plant Miller Client: Southern Company Data: Miller Ash Pond

### Parametric Confidence Interval

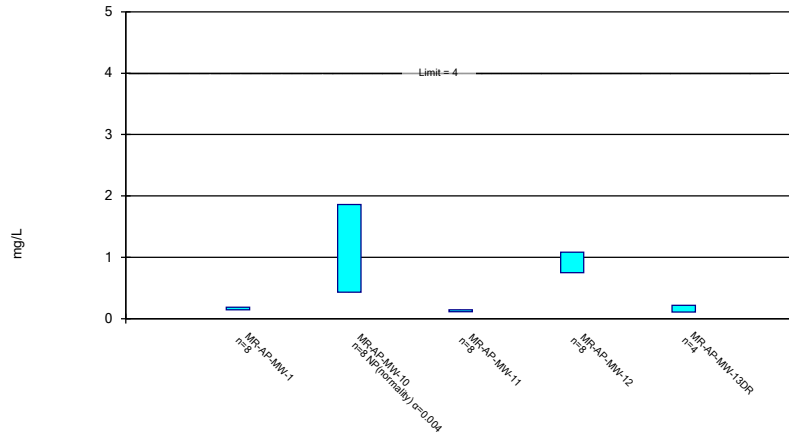
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/17/2022 7:48 PM View: AIV  
Plant Miller Client: Southern Company Data: Miller Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

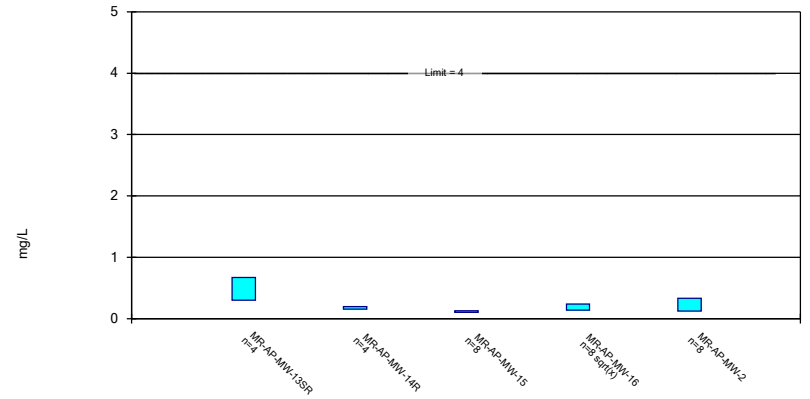
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 5/17/2022 7:48 PM View: AIV  
Plant Miller Client: Southern Company Data: Miller Ash Pond

### Parametric Confidence Interval

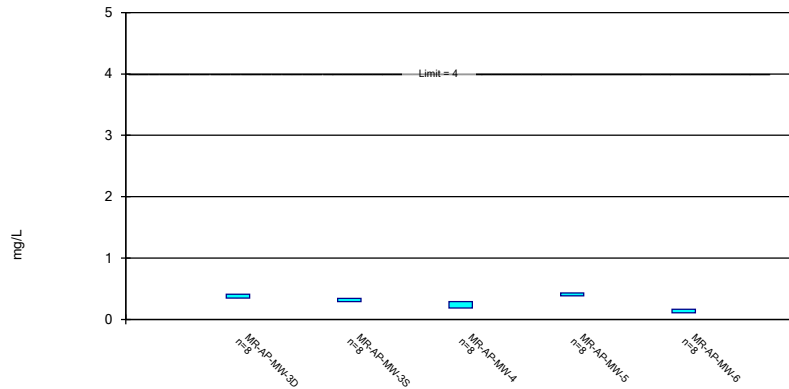
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 5/17/2022 7:48 PM View: AIV  
Plant Miller Client: Southern Company Data: Miller Ash Pond

### Parametric Confidence Interval

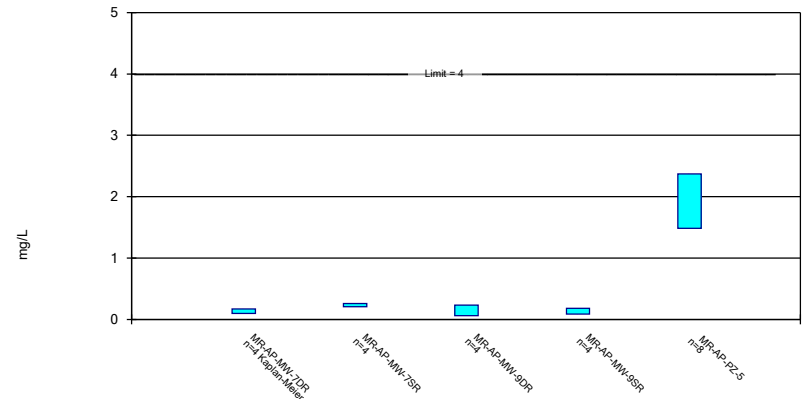
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 5/17/2022 7:48 PM View: AIV  
Plant Miller Client: Southern Company Data: Miller Ash Pond

### Parametric Confidence Interval

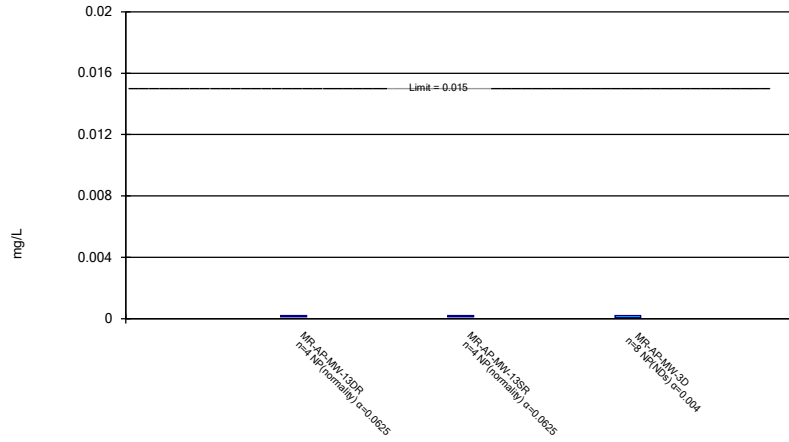
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 5/17/2022 7:48 PM View: AIV  
Plant Miller Client: Southern Company Data: Miller Ash Pond

### Non-Parametric Confidence Interval

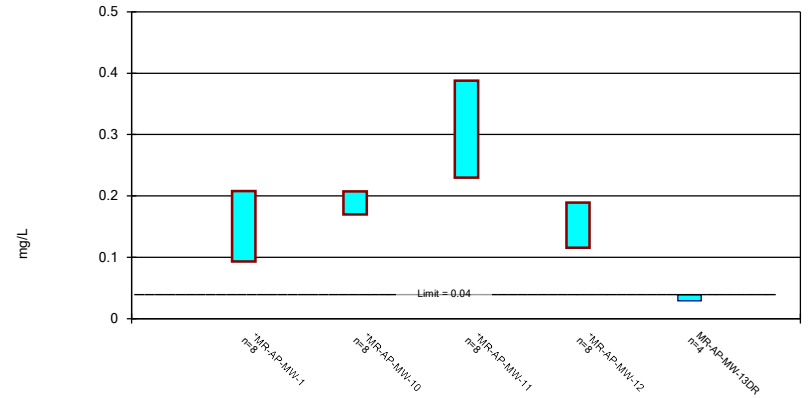
Compliance Limit is not exceeded.



Constituent: Lead Analysis Run 5/17/2022 7:48 PM View: AIV  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Parametric Confidence Interval

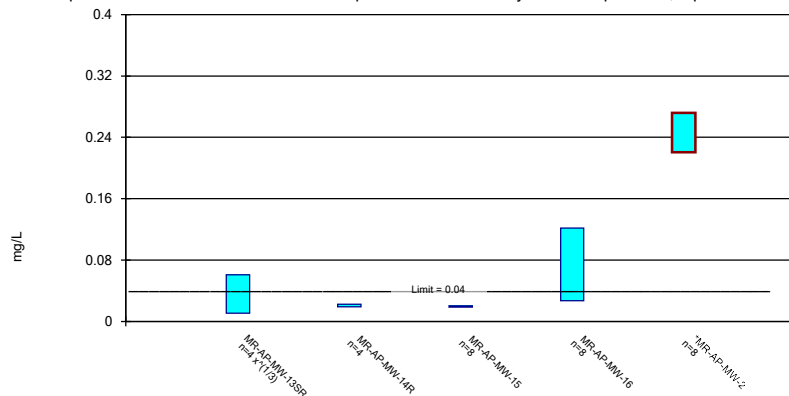
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 5/17/2022 7:48 PM View: AIV  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Parametric Confidence Interval

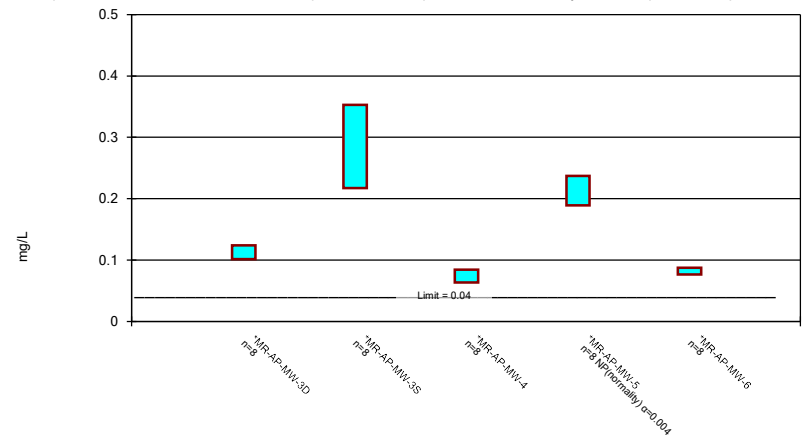
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 5/17/2022 7:48 PM View: AIV  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

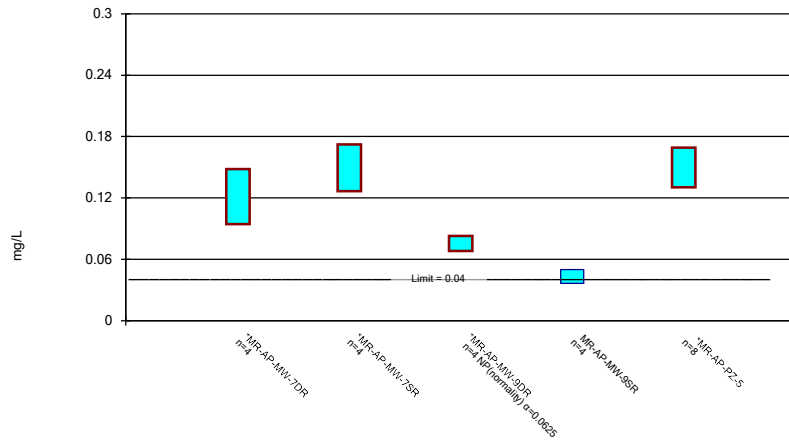
Compliance limit is exceeded.\* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 5/17/2022 7:48 PM View: AIV  
 Plant Miller Client: Southern Company Data: Miller Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

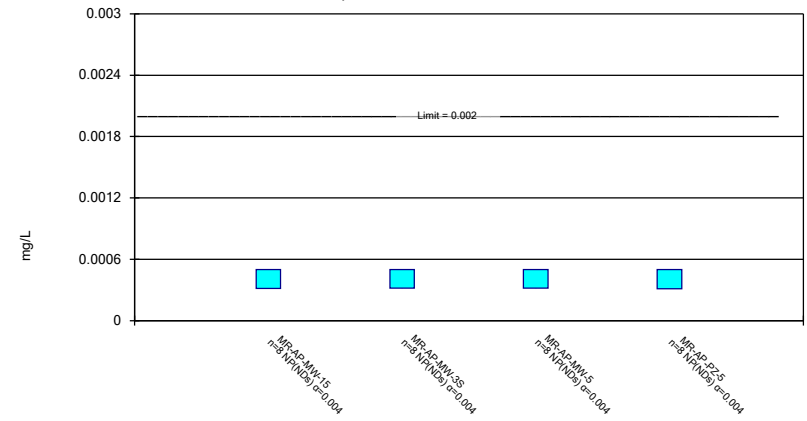
Compliance limit is exceeded.\* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 5/17/2022 7:48 PM View: AIV  
Plant Miller Client: Southern Company Data: Miller Ash Pond

### Non-Parametric Confidence Interval

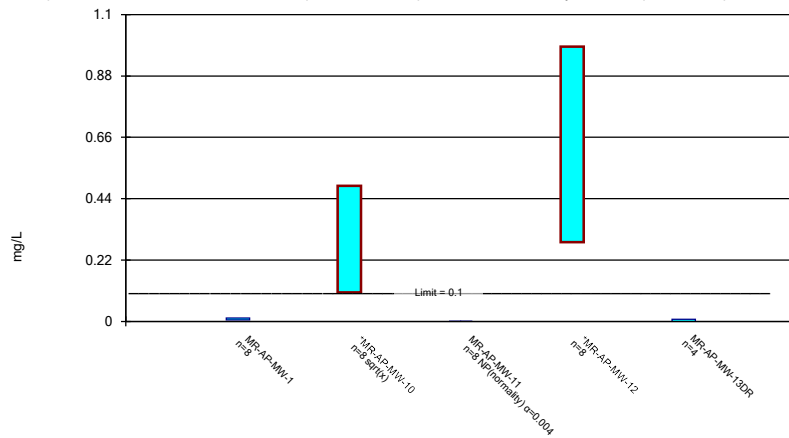
Compliance Limit is not exceeded.



Constituent: Mercury Analysis Run 5/17/2022 7:48 PM View: AIV  
Plant Miller Client: Southern Company Data: Miller Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

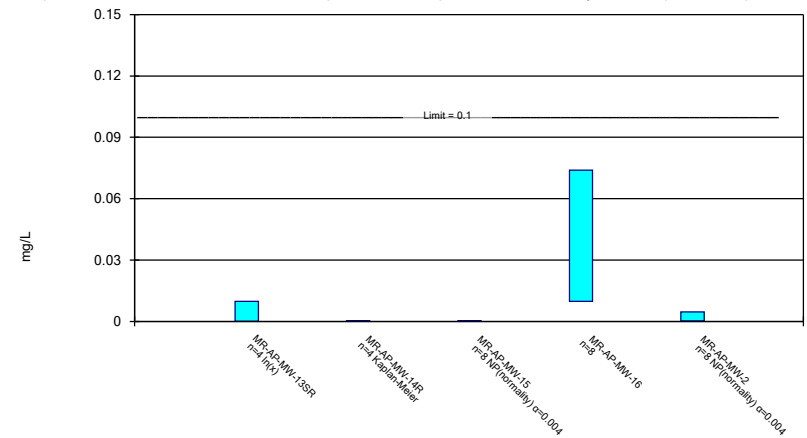
Compliance limit is exceeded.\* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 5/17/2022 7:48 PM View: AIV  
Plant Miller Client: Southern Company Data: Miller Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

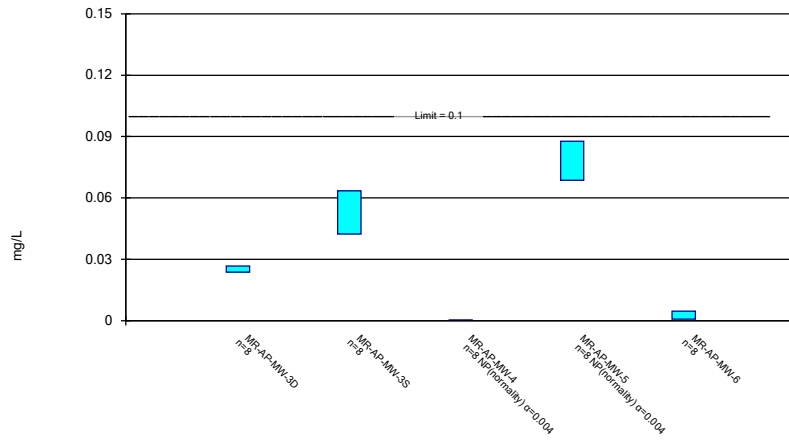
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 5/17/2022 7:48 PM View: AIV  
Plant Miller Client: Southern Company Data: Miller Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

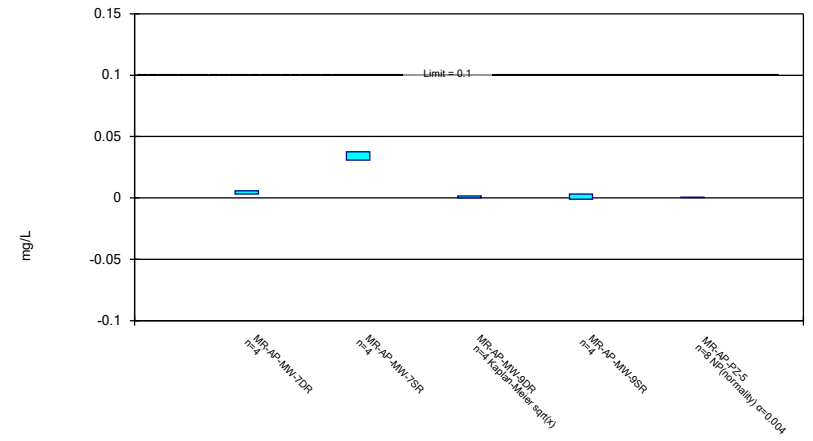
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 5/17/2022 7:48 PM View: AIV  
Plant Miller Client: Southern Company Data: Miller Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

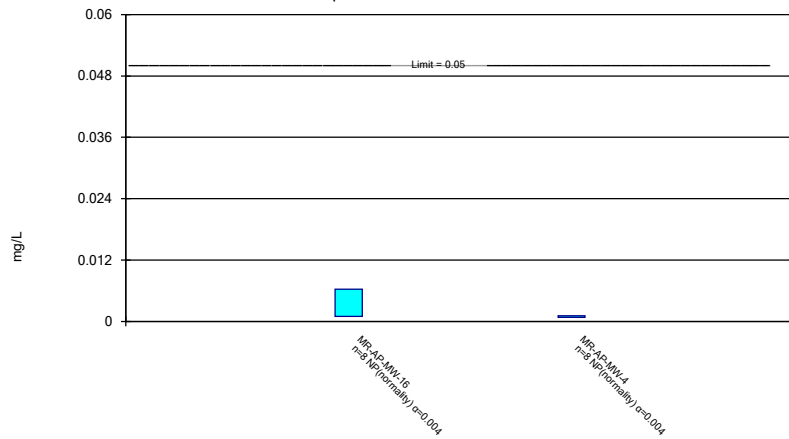
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 5/17/2022 7:48 PM View: AIV  
Plant Miller Client: Southern Company Data: Miller Ash Pond

### Non-Parametric Confidence Interval

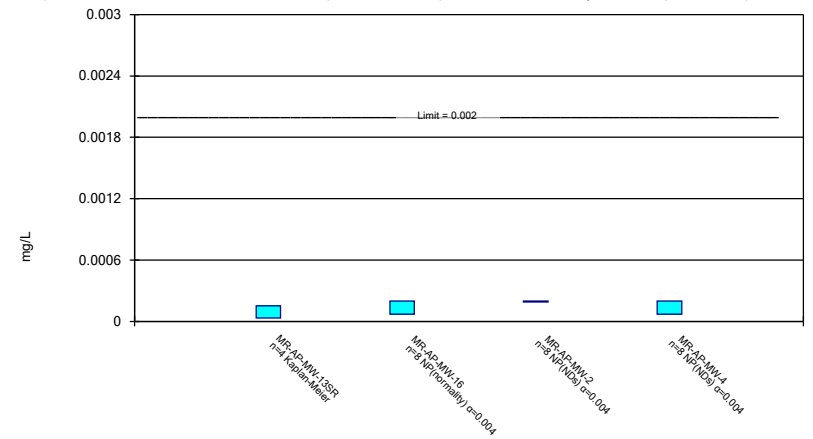
Compliance Limit is not exceeded.



Constituent: Selenium Analysis Run 5/17/2022 7:48 PM View: AIV  
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.



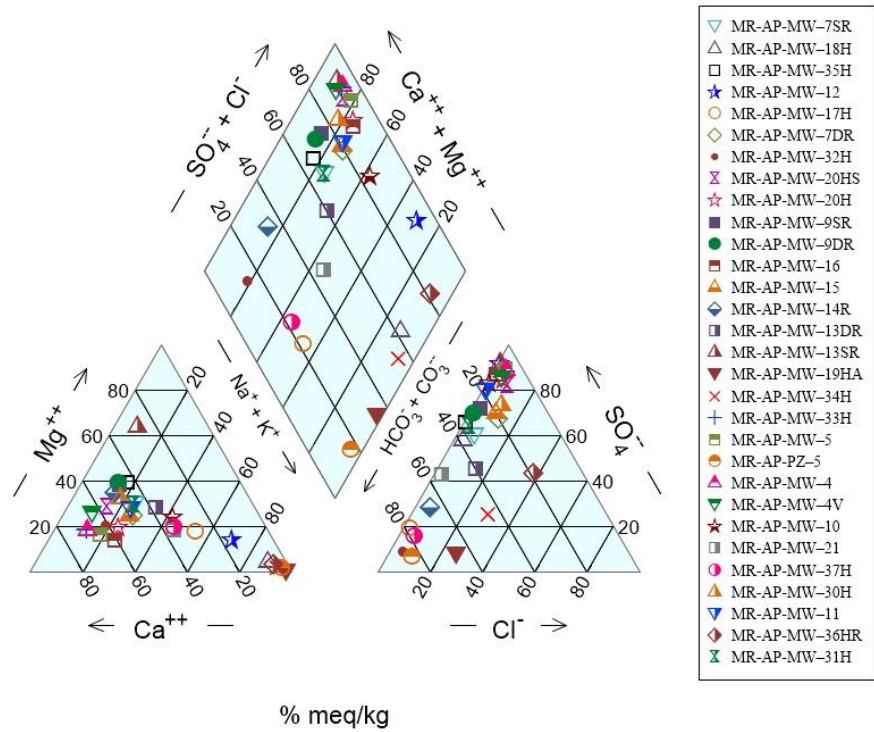
Constituent: Thallium Analysis Run 5/17/2022 7:48 PM View: AIV  
Plant Miller Client: Southern Company Data: Miller Ash Pond

# Appendix E



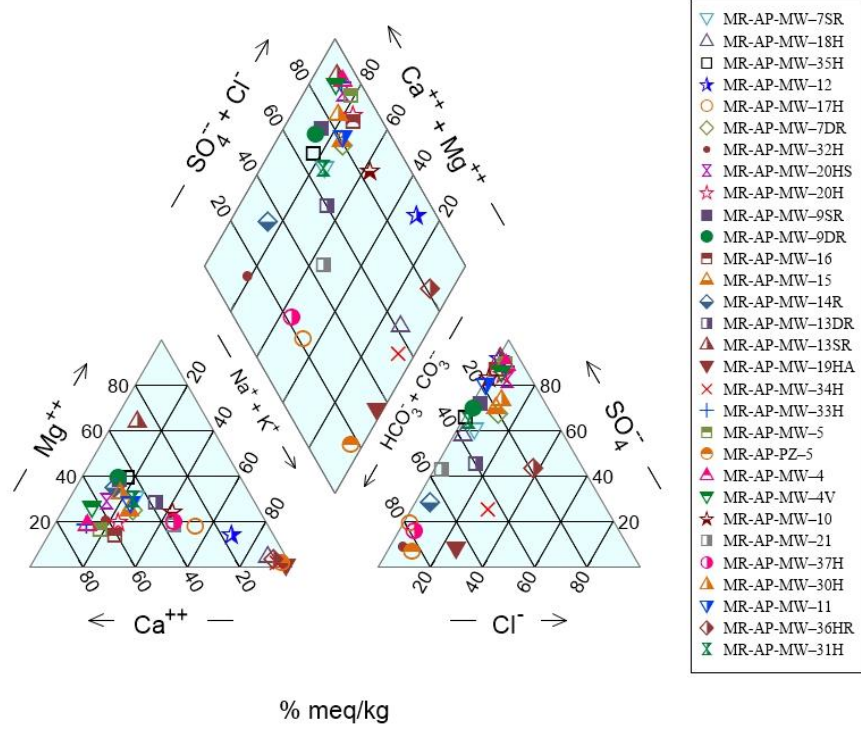
FALL 2021 – PIPER DIAGRAM

Plant Miller - 20211018

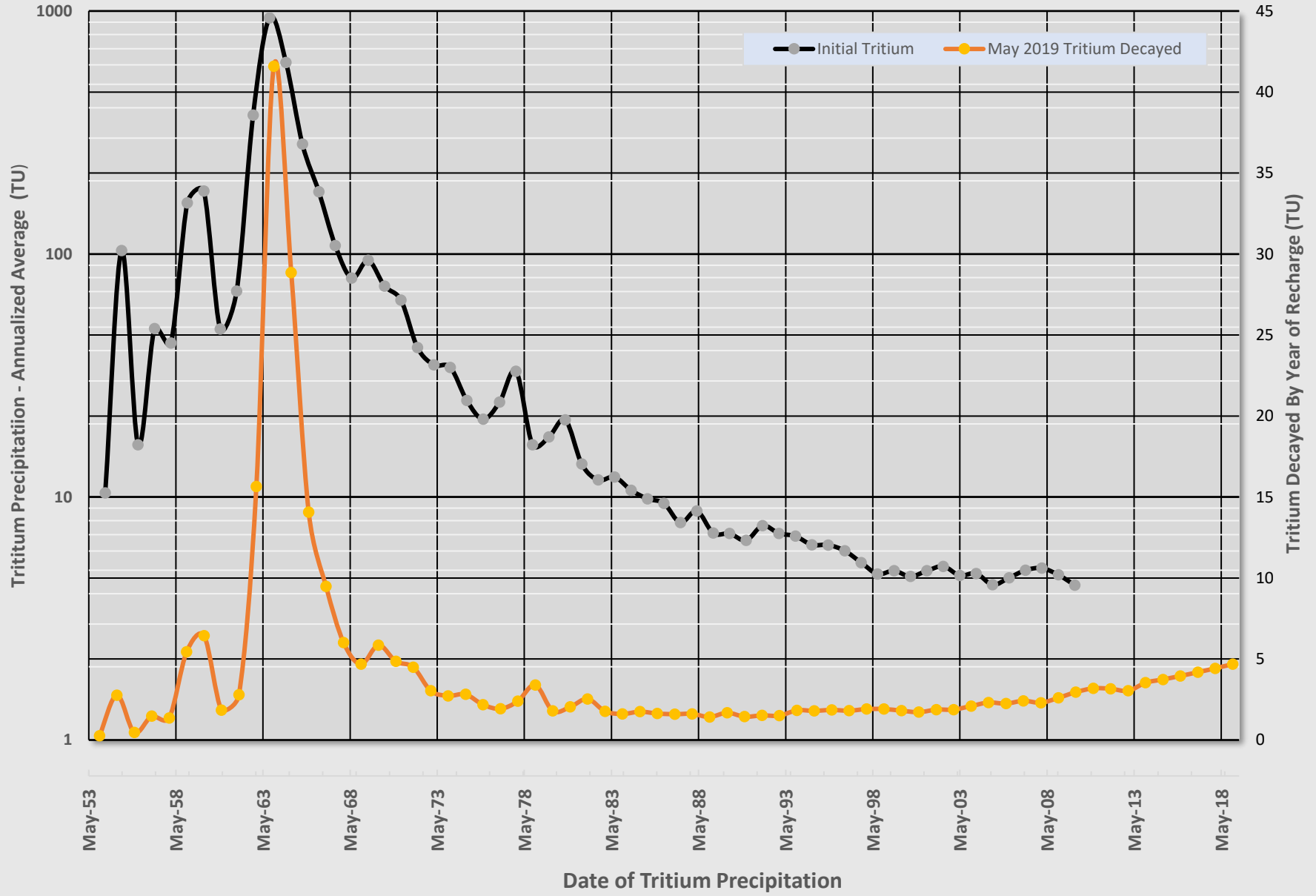


SPRING 2022 – PIPER DIAGRAM

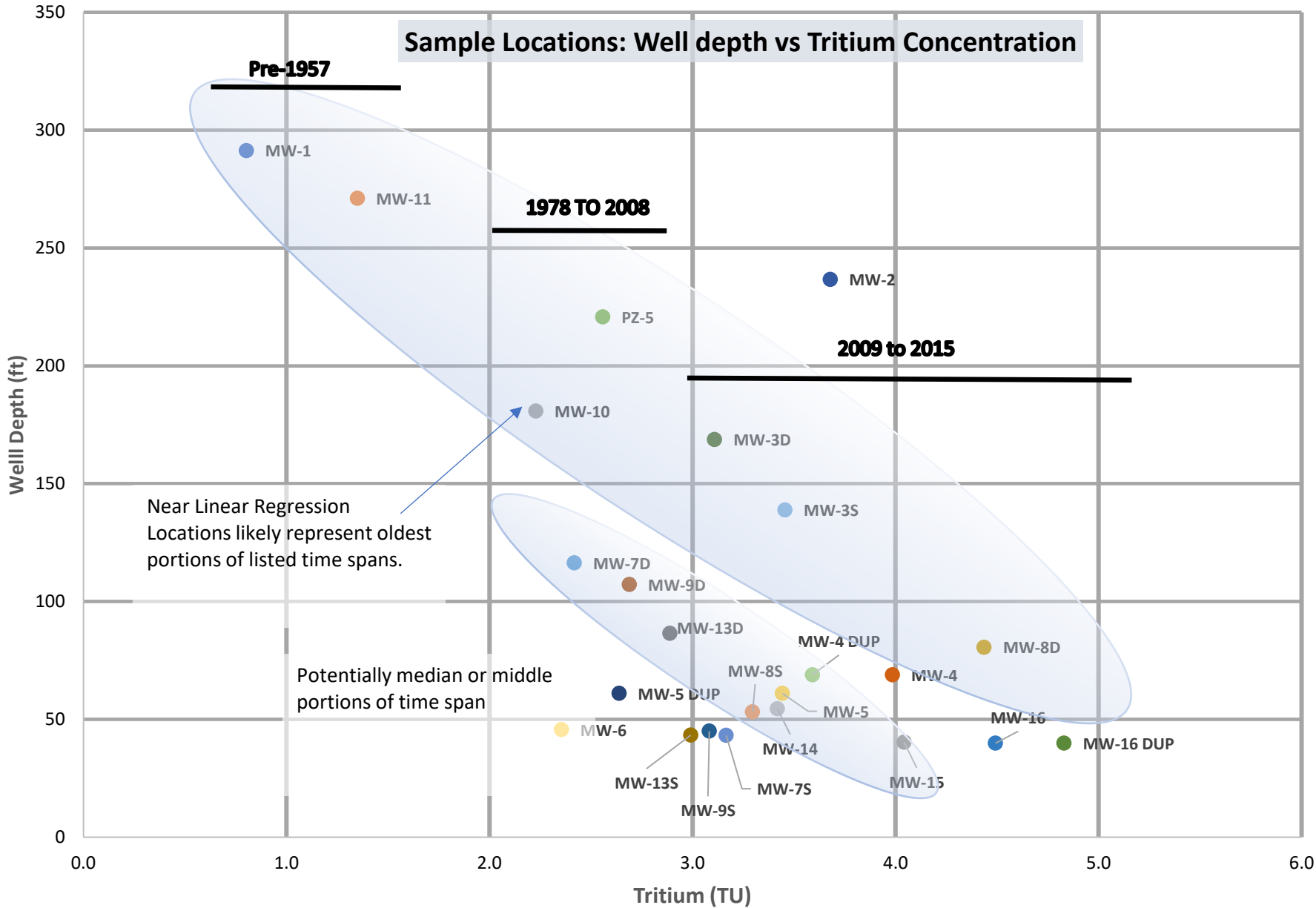
Plant Miller - 20220426



**Estimated Tritium Concentrations in Groundwater Decayed By Year of Recharge**



### Sample Locations: Well depth vs Tritium Concentration



● Sample Locations: Well depth vs Tritium Concentration