

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

**ALABAMA POWER COMPANY
PLANT BARRY
ASH POND**

January 31, 2022

Prepared for

Alabama Power Company
Birmingham, Alabama

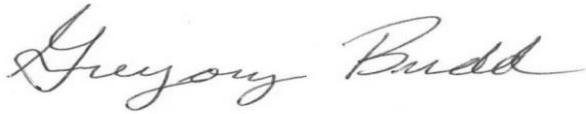
By

Southern Company Services
Earth Science and Environmental Engineering



CERTIFICATION STATEMENT

This *2021 Annual Groundwater Monitoring and Corrective Action Report, Alabama Power Company - Plant Barry Ash Pond* has been prepared in accordance with the United States Environmental Protection Agency's coal combustion residual rule (40 CFR Part 257, Subpart D), ADEM Admin. Code Ch. 335-13-15, and Part E of ADEM Administrative Order No. 18-094-GW, under the supervision of a licensed professional engineer in the State of Alabama. As such, I certify that the information contained herein is true and accurate to the best of my knowledge.



1/31/2022

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1/31/2022

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EXECUTIVE SUMMARY

In accordance with the United States Environmental Protection Agency (EPA) coal combustion residual (CCR) rule (40 CFR Part 257, Subpart D), the State of Alabama Department of Environmental Management (ADEM) Admin. Code Ch. 335-13-15, and ADEM Administrative Order (AO) No. 18-094-GW, 2021 Semi-Annual Groundwater Monitoring and Corrective Action Report has been prepared to document 2021 semi-annual assessment groundwater monitoring activities at the Alabama Power Company (APC) James M. Barry Electric Generating Plant (Plant Barry) Ash Pond and to satisfy the requirements of § 257.90(e), ADEM Admin. Code r. 335-13-15-.06(1)(f), and Part E of AO 18-094-GW. Semi-annual assessment monitoring and associated reporting for Plant Barry Ash Pond is performed in accordance with the monitoring requirements § 257.90 through § 257.95 and ADEM Admin. Code r. 335-13-15-.06(1) through r. 335-13-15-.06(6). Additionally, in an effort to streamline and provide more thorough reports to ADEM, APC requested approval to combine the information provided in the Semi-Annual Progress Reports described in Part E of AO No. 18-094-GW into the Semi-Annual Groundwater Monitoring and Corrective Action Reports on March 15, 2021.

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

The CCR unit began the monitoring period in assessment monitoring pursuant to § 257.95 and ADEM Admin. Code r. 335-13-15-.06(6). Statistically significant increases (SSIs) 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 (SSLs) of Appendix IV parameters above groundwater protection standards 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. 18-094-GW. A public meeting to discuss the ACM was held on June 30, 2020.

Since the submittal of the ACM extensive Site investigations have been performed to select effective corrective measures to address SSLs above GWPS. A Groundwater Remedy Selection Report was prepared to meet the requirements of § 257.97, ADEM Admin. Code r. 335-13-15-.06(8), and Part C of AO No.18-094-GW and submitted to ADEM on October 29, 2021. Subsequently, within 90 days of remedy selection, a Corrective Action Groundwater Monitoring Program was developed and submitted to ADEM on January 27, 2022, for review.

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

SSLs of Appendix IV parameters arsenic and cobalt were detected above GWPS during 2021 semi-annual monitoring events. The following summarizes 2021 groundwater monitoring activities at the site:

- Responded to the February 3, 2021, ADEM Semi-Annual Progress and Groundwater Delineation Reports comments letter on March 5, 2021.
- Completed the first semi-annual assessment groundwater sampling event between May 10, 2021, and May 28, 2021.
- Submitted the Semi-Annual Remedy Selection and Design Progress Report in June 2021.
- Completed the second semi-annual assessment groundwater sampling event between October 18, 2021, and November 5, 2021.
- Submitted the 2021 Semi-Annual Groundwater Monitoring and Corrective Action Report on July 31, 2021.
- Continued the evaluation of monitored natural attenuation (MNA) and geochemical manipulation as potential groundwater remediation technologies for the Site as described in the Semi-Annual Remedy Selection and Design Progress Reports submitted in June 2021 in accordance with § 257.97(a) and the ADEM Admin. Code r. 335-13-15-.06(8)(a).
- Continued the evaluation of monitored natural attenuation (MNA) and geochemical manipulation as potential groundwater remediation technologies for the Site as described in the Semi-Annual Remedy Selection and Design Progress Reports submitted in June 2021 in accordance with § 257.97(a) and the ADEM Admin. Code r. 335-13-15-.06(8)(a).
- Submitted the Groundwater Remedy Selection Report in accordance with § 257.97, ADEM Admin. Code r. 335-13-15-.06(8), and Part C of AO No.18-094-GW on October 29, 2021.

- Submitted a Corrective Action Groundwater Monitoring Program document presenting the groundwater corrective action remedies to be implemented at the Site to meet § 257.98 and ADEM Admin. Code r. 335-13-15-.06(9) on January 27, 2022.
- Pursuant to 40 CFR 257.90(e)(6), **Executive Summary Table – Monitoring Period Summary** has been prepared to describe the status of groundwater monitoring and corrective action during the monitoring period for this report.

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

- Collect soil and groundwater samples for treatability studies using Site aquifer media and impacted groundwater prior to field implementation of an injection treatment pilot study.
- Conduct batch studies for reagents and doses.
- Conduct column studies for effectiveness.
- Prepare Class V UIC permit.
- Conduct the first semi-annual assessment monitoring event of 2022 and submit the semi-annual groundwater monitoring and corrective action report summarizing the findings to ADEM by July 31, 2022.

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

Assessment Monitoring Initiated: January 15, 2018
 Monitoring Period: July 1 - December, 31 2021
 Beginning Status: Assessment
 Ending Status: Assessment

Statistical Analysis Results *

Appendix III SSIs

Parameter	Wells
Boron	BY-AP-MW-1, BY-AP-MW-8, BY-AP-MW-9, BY-AP-MW-10, BY-AP-MW-16
Calcium	BY-AP-MW-1, BY-AP-MW-2, BY-AP-MW-5, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-9, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15, BY-AP-MW-16
Chloride	BY-AP-MW-1, BY-AP-MW-5, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-9, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15, BY-AP-MW-16
Fluoride	BY-AP-MW-1, BY-AP-MW-11, BY-AP-MW-15,
pH	BY-GSA-MW-4 (upgradient), BY-AP-MW-1, BY-AP-MW-5, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-13, BY-AP-MW-14,
Sulfate	BY-AP-MW-1, BY-AP-MW-5, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-9, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15, BY-AP-MW-16
TDS	BY-AP-MW-1, BY-AP-MW-5, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-9, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15, BY-AP-MW-16

Appendix IV SSLs

Parameter	Wells
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Cobalt	BY-AP-MW-7, BY-AP-MW-15

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

Assessment of Corrective Measures & Groundwater Remedy

Assessment of Corrective Measures

Date Initiated: January 13, 2019
 Date Complete: June 12, 2019
 Public Meeting Date: June 30, 2020

Groundwater Remedy

Selected During Period: Yes
 Selection Date: October 29, 2021
 Initiated During Period: No
 Ongoing During Period: No

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ABBREVIATIONS

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

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

1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (EPA) coal combustion residual (CCR) rule (40 CFR Part 257, Subpart D), the State of Alabama Department of Environmental Management (ADEM) Admin. Code Ch. 335-13-15, and ADEM Administrative Order No. 18-094-GW, 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 Barry Ash Pond and to satisfy the requirements of § 257.90(e), ADEM Admin. Code r. 335-13-15-.06(1)(f), and Part E of AO No. 18-094-GW. Semi-annual assessment monitoring and associated reporting for Plant Barry 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).

On March 15, 2021, in an effort to streamline reporting cycles and provide a single set of comprehensive semi-annual reports to ADEM, APC requested approval to re-locate the discussion of delineation results routinely provided in Semi-Annual Progress Reports to Semi-Annual Groundwater Monitoring and Corrective Action Reports. The Semi-Annual Progress Reports have historically been provided to the Department in March and September and covers content described in Part E of AO No. 18-094-GW. ADEM approved this approach and revised timeline for submittals on March 16, 2021. Semi-Annual Groundwater Monitoring and Corrective Action Reports will now include an update on groundwater delineation activities completed since the submittal of the Facility Plan for Groundwater Investigation (November 13, 2018) and will continue until released in writing by ADEM.

2.0 MONITORING PROGRAM STATUS

The site is currently in assessment monitoring and evaluating groundwater corrective action alternatives. 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 Barry Ash Pond during sampling events conducted in 2018. Alternate Source Demonstrations (ASD) were not completed for all Appendix IV constituents exceeding the GWPS; therefore, pursuant to § 257.95(g)(3)(i) and ADEM Admin. Code r. 335-13-15-.06(6)(g)4.(i), APC completed an assessment of corrective measures (ACM) in accordance with § 257.96, ADEM Admin. Code r. 335-13-15-.06(7), and ADEM AO No. 18-094-GW. The ACM was completed June 12, 2019, and a public meeting was held to discuss the ACM on June 30, 2020.

In accordance with § 257.97(a), ADEM Admin. Code r. 335-13-15-.06(8)(a), and Part C of Administrative Order No. 18-094-GW, Semi-Annual Remedy Selection and Design Progress Report were submitted beginning in December in 2019. The semi-annual progress reports were prepared to describe the progress made in selecting and designing a remedy for the Site.

A Groundwater Remedy Selection Report was prepared to meet the requirements of § 257.97, ADEM Admin. Code r. 335-13-15-.06(8), and Part C of AO No.18-094-GW and submitted to ADEM on October 29, 2021. Subsequently, within 90 days of remedy selection, a Corrective Action Groundwater Monitoring Program was developed and submitted to ADEM on January 27, 2022, for review.

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

3.0 SITE LOCATION AND DESCRIPTION

The Alabama Power Company (APC) James M. Barry Electric Generating Plant (Plant Barry) is in northeastern Mobile County, Alabama, approximately 23 miles north of Mobile, AL and 1 mile east of the city of Bucks, AL. The physical address is 15300 U.S. Highway 43 North, Bucks, Alabama 36512. Plant Barry lies in Section 36 of Township 1 North, Range 1 West, Sections 31 and 32 of Township 1 North, Range 1 East, Section 1 of Township 1 South, Range 1 West, and Sections 5 and 6 of Township 1 South, Range 1 East. Section/Township/Range data are based on visual inspection of USGS topographic quadrangle maps and GIS maps (USGS, 1980, 1982a, 1982b, 1983). The Ash Pond is located east-southeast of the main plant, between the Mobile River and Plant Barry barge canal. **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 Barry is located within the Southern Pine Hills and the Alluvial-deltaic Plain districts of the East Gulf Coastal Plain physiographic section. The Alluvial-deltaic Plain district is composed of alluvium and terrace deposits of the Mobile River delta and is characterized by very little topographical relief (Gillet et al., 2000). The Southern Pine Hills district is a southward sloping plain developed on Miocene Series clay, sand, and gravel deposits. The Southern Pine Hills district is dissected by surface water features, and near Plant Barry, displays gentle topographic relief (Davis, 1987). Local site elevations near the Ash Pond range from approximately 0 to 50 feet above mean seal level (MSL). The embankment elevations that form the perimeter of the Ash Pond reside between 26 and 20 feet MSL. **Figure 2, Site Topographic Map,** provides the topography of the Site.

3.2 SITE GEOLOGY AND HYDROGEOLOGY

The geology of the site is characterized by sedimentary deposits ranging in age from Tertiary to Quaternary. The Pliocene age Citronelle formation, while present regionally, was not encountered at the site. Sedimentary alluvial and terrace deposits of the Quaternary Period overlie largely unconsolidated Tertiary deposits in and adjacent to the flood plains of the Mobile River. At the site, Holocene age alluvial and low terrace deposits overlie undifferentiated Miocene Series sediments. Miocene Series sediments were primarily deposited in a regressive marine depositional environment. The Miocene Series is composed of fine to very coarse-grained sand with interbedded sandy clays, silts, and shell fragments (Walter and Kidd,

1979). Siliciclastic sediments of the Miocene Series are often micaceous and pyritic, and contain wood fragments, shell debris, and heavy minerals (Chandler et al., 1985). Alluvial, low terrace, and coastal deposits reflect estuarine, deltaic, lagoonal, and shoreface deposition in lowland areas from late Pleistocene to Holocene time. These deposits consist of fine to coarse sand, which can be rich in heavy detrital minerals (Hsu, 1960), silt, sandy clay, clay, and shell fragments (Chandler et al., 1985). **Figure 3, Site Geologic Map**, illustrates the surface geology at the site and neighboring areas. **Figure 4A, Geologic Cross-Section A-A'**, **Figure 4B, Geologic Cross-Section B-B**, and **Figure 4C, Geologic Cross-Section C-C'**, provides an illustration of well screen intervals with respect to stratigraphy and elevation at the Site.

Around the site, the uppermost stratigraphic layer varies from approximately 5 to 20 feet and is defined as fill material composed of sandy and silty lean clays that were placed during the construction of the Ash Pond. Beneath the fill material, generalized near-surface stratigraphy of the site, in descending order, consists of (Unit 1) an organic-rich fat clay to lean clay, (Unit 2) a sandy lean clay to clayey sand with interbedded silty sand, and (Unit 3) a poorly graded sand with lenses of sandy lean clay and gravel. The stratigraphy of the site displays vertical and horizontal heterogeneity common with alluvial, low terrace, and coastal deposits.

- Unit 1 is described as a mottled gray to dark gray and red fat clay with some interlayered sandy lean clays. Unit 1 extends from the base of fill materials to elevations of approximately -10 to -25 feet mean sea level (MSL).
- Unit 2 consists of mottled light gray, brownish yellow, and red sandy lean clay with medium plasticity and trace amounts of interlayered sand. Lenses of clayey sands and silty sands are also present within this unit. Unit 2 extends from the base of the organic clay layer to elevations of approximately -30 to -40 feet MSL grading into sand of Unit 3.
- Unit 3 comprises the uppermost aquifer for groundwater monitoring purposes at the site and is described as a pale brown or light gray poorly graded sand with silt content. Fine gravel appears in the lower portion of Unit 3. Lenses of sandy clay and clayey sand are present in the upper portions of Unit 3 but are not prevalent.
- Unit 4 likely corresponds to the transition to Miocene Series sediments and is described as a pale greenish gray or blue, interbedded fat clay, lean clay, and silty sand. The top of Unit 4 generally appears between 90 and 120 feet below ground surface at the Site (-65 to -100 ft MSL) and select

borings (BY-AP-MW-8V, BY-AP-MW-12V, BY-AP-MW-12VM, BY-AP-MW-15VM) indicate a thickness of 10 to 20 feet. Unit 4 clays display a very low average hydraulic conductivity of 3.0×10^{-7} cm/s.

3.2.1 Uppermost Aquifer

The uppermost aquifer beneath the site generally corresponds to Unit 3 sands, which are part of the Watercourse Aquifer system. At the site, Watercourse Aquifer generally consists of fine to medium grained sands with discrete gravelly, coarse sand and gravel. Clay nodules, lenses, and stringers are present within Unit 3, but are not prevalent. Depth to the top of the Watercourse Aquifer generally ranges between 45 and 70 feet below ground surface (BGS). Groundwater recharge to the Watercourse Aquifer is largely accomplished by infiltration of precipitation and subsequent percolation down to the water table. Regionally, the Watercourse and Miocene-Pliocene Aquifers are considered to be hydraulically connected due to the discontinuous nature of clay aquitards. However, locally semi-confined to confined conditions may be present when a sufficient aquitard separates the aquifers or sand units.

3.2.2 Flow Interpretation

Groundwater flow at the site is a subdued replica of the natural topography where gravity is the dominant force driving flow. Groundwater flows from higher topographic elevations west of the Ash Pond to lower topographic elevations to the east. Groundwater elevations, potentiometric surfaces, and geologic cross-section indicate that the Watercourse Aquifer beneath the Site is not in communication with the discharge canal. Groundwater flow is accomplished by porous or Darcian flow mechanics through sands of the Watercourse Aquifer. Groundwater elevations fluctuate in response to rainfall and Mobile River stage. Seasonal variations of 5 to 7 feet are typical at the Site. These fluctuations are consistent in monitoring wells across the Site, indicating a relatively uniform response to rainfall events and fluctuations of the Mobile River. Potentiometric surface maps are presented in **Section 4.1**.

3.3 GROUNDWATER MONITORING SYSTEM

Pursuant to § 257.91 and ADEM Admin. Code r. 335-13-15-.06(2), Plant Barry has installed a groundwater monitoring well network to monitor groundwater quality within the uppermost aquifer. The certified groundwater monitoring system for the Plant Barry Ash Pond is designed to monitor groundwater passing the waste boundary of the CCR unit. Wells were located to serve as upgradient or downgradient monitoring

locations based on groundwater flow direction as determined by the potentiometric surface elevation contour maps.

Monitoring wells were screened in the Watercourse Aquifer. The Watercourse Aquifer is composed of Quaternary alluvial and low terrace deposits consisting of interbedded sand, gravel, and clay. The monitoring systems are designed to monitor water quality as groundwater flows laterally from south to north across the site. 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. Monitoring well locations are presented on **Figure 5, Monitoring Well Location Map** and **Table 1a. Compliance Monitoring Well Network Detail, Table 1b. Delineation Monitoring Well Network Details, and Table 1c. Piezometer Well Network Details** summarize the monitoring well construction details and design purpose for the Plant Barry Ash Pond.

3.3.1.1 Upgradient Wells

Data used to establish background water quality or selection of upgradient wells include: (1) review of groundwater elevation data and potentiometric surface contour maps to determine groundwater flow direction and (2) a screening of Appendix III CCR indicator parameters (chiefly calcium, sulfate, and boron) for apparently elevated concentrations.

Historically, monitoring wells BY-AP-MW-2 through BY-AP-MW-4 have served as upgradient monitoring wells. These wells were selected as upgradient based on low concentrations of CCR indicator parameters and groundwater flow direction. Following discussions with ADEM, these wells were re-designated as compliance monitoring wells and not used for “background” purposes.

To establish a clear and distinct background, monitoring well locations BY-GSA-MW-1 through BY-GSA-MW-4 now serve as upgradient locations for the Ash Pond. Groundwater generally flows semi-radially

across the Ash Pond from the southwest to northeast with a northerly and southerly flow component. Upgradient wells are located south of the Gypsum Pond as determined by water level monitoring and potentiometric surface maps constructed for the Site. This re-designation of well locations was detailed in the revised groundwater monitoring plan submitted to ADEM on April 15, 2020, and resubmitted on August 24, 2020. Upgradient wells BY-GSA-MW-1 through BY-GSA-MW-4 are now being labeled as BY-UP-MW-1 through BY-UP-MW-4 by field and lab personnel to distinguish as upgradient locations for both the Barry Gypsum Pond and Barry Ash Pond. **Table 1a**, summarizes the monitoring well construction details and design purpose.

3.3.1.2 Downgradient Wells

Monitoring well locations BY-AP-MW-1 through BY-AP-MW-16 are used as downgradient compliance monitoring locations for the Ash Pond. Downgradient monitoring well details are included in **Table 1a**.

3.3.1.3 Delineation Wells

Pursuant to § 257.95(g)(1), ADEM Admin. Code r. 335-13-15-.06(6)(g)2., and AO 18-094-GW, additional delineation wells were installed to characterize the horizontal and vertical extent of GWPS exceedances identified during assessment monitoring. Two phases of field investigation since late 2018 explored potential impacts to groundwater. Phase I was conducted between December 2018 and December 2019. Seven vertical delineation wells (BY-AP-MW-1V, BY-AP-MW-5V, BY-AP-MW-7V, BY-AP-MW-8V, BY-AP-MW-10V, BY-AP-MW-12V and BY-AP-MW-15V) and seven horizontal delineation wells (BY-AP-MW-17H, BY-AP-MW-18H, BY-AP-MW-19H, BY-AP-MW-20H, BY-AP-MW-22H, BY-AP-MW-23H, and BY-AP-MW-24H), were installed and sampled to assess the lateral extent of groundwater impact in the directions of groundwater flow away from the facility.

A Groundwater Investigation Report was submitted on December 15, 2019, summarizing Phase I groundwater investigation findings and including a work plan for a Phase II investigation. Field work for Phase II was conducted between February 2020 and June 2020. Eight deep vertical delineation wells (BY-AP-MW-13V, BY-AP-MW-14V, BY-AP-MW-16V, BY-AP-MW-17V, BY-AP-MW-20V, BY-AP-MW-23V and BY-AP-MW-25V) and one horizontal delineation well (BY-AP-MW-25H) were installed to complete delineation activities at the Site.

Additionally, two Type III (double-cased) deep vertical delineation well borings (BY-AP-MW-12VM, and BY-AP-MW-15VM,) were advanced to vertically delineate the low-permeability Unit 4 interbedded fat clay, lean clay, and silty sand. Boring logs indicate thicknesses of greater than 25 feet (BY-AP-MW-12VM) and 20 feet (BY-AP-MW-15VM) of Unit 4 clays and a very low average hydraulic conductivity of 3.0×10^{-7} cm/s. Subsequently, soil boring BY-AP-MW-12VM was abandoned prior to well installation and BY-AP-MW-15VM was installed as a water level-only piezometer.

All delineation wells are sampled semi-annually as part of the semi-annual assessment groundwater monitoring program. A semi-annual progress and groundwater delineation report summarizing findings was submitted to ADEM on September 30, 2020.

Unlike compliance wells, which are installed on top of the Ash Pond dike, many delineation wells are installed at the base of the dike and surrounding lower-lying areas. During the wet season or after rainy periods, some delineation wells can be either temporarily inaccessible for sampling or unsafe to sample. In that case, another sampling event will be attempted after a drying period or during the next semi-annual sampling event. Delineation wells are identified on **Figure 5** and detailed on **Table 1b**. All delineation wells are sampled semi-annually as part of the semi-annual assessment groundwater monitoring program.

3.3.1.4 Piezometers

Phase II delineation location BY-AP-MW-15VM is used as a water level-only piezometer. This location is separated from the Watercourse Aquifer (Unit 2/3 sands) by a lower confining layer (Unit 4) of sufficient thickness to justify water level-only monitoring at this location. BY-AP-MW-15VM encountered greater than 20 feet of clay and demonstrated a groundwater separation of 1.38 feet and 0.78 feet from paired Watercourse Aquifer well BY-AP-MW-15 during the first Phase II delineation sampling event conducted on June 15, 2020, and second semi-annual sampling event conducted on August 31, 2020, respectively. The groundwater elevations observed in well BY-AP-MW-15VM also indicate an upward vertical gradient (i.e., groundwater flowing upwards), providing further support for a piezometer designation. **Table 1c** summarizes the water-level only piezometer construction details.

3.3.1.5 Monitoring Well Replacement and Abandonment

No monitoring well replacements and/or abandonments were conducted during the reporting period.

3.4 GROUNDWATER MONITORING HISTORY

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 March 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 January 2018, within 90 days of initiating the assessment monitoring program.

Statistical evaluations of 2018 assessment monitoring data identified SSLs of Appendix IV constituents above the GWPS, and the Site entered Assessment of Corrective Measures. Pursuant to 40 CFR §257.95(g)(1), ADEM Admin. Code r. 335-13-15-.06(6)(g)2., and AO 18-094-GW, additional monitoring wells (**Table 1B, Figure 5**) were installed to characterize the horizontal and vertical extent of GWPS exceedances identified during assessment monitoring in two phases of groundwater investigations between December 2018 and June 2020. These wells, along with the compliance monitoring well network, are sampled semi-annually. Delineation wells installed at the Site have been sampled concurrently with the compliance monitoring well network beginning with the second semi-annual sampling event in September 2020. However, occasionally, additional data collection has occurred independent of routine compliance sampling events to support continuing assessment activities at the site.

3.4.1 Available Monitoring Data

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

3.4.2 Historical Groundwater Flow

Historical groundwater elevations and potentiometric surface maps show that groundwater flow patterns are consistent across monitoring events and as described in **Section 3.2.2**. As Ash Pond closure activities

progress over the years and upon completion of closure, groundwater elevations will likely display variability representative of changing site hydrodynamics and eventually, a new set of equilibrium conditions. As this timeline progresses, groundwater elevations and trends will be qualitatively reviewed against this historical data set. Tables summarizing groundwater elevations from all groundwater monitoring events are included in **Appendix B, Historical Groundwater Elevations Summary**.

3.4.3 Monitoring Variances

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

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

3.5 GROUNDWATER SAMPLING AND ANALYSIS

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

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

3.5.1 Groundwater Sample Collection

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

Groundwater samples were collected from monitoring wells using low-flow sampling procedures in accordance with §257.93(a) and ADEM Admin. Code r. 335-13-15-.06(4)(a). All monitoring wells at Plant Barry 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 10 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**.

3.5.2 Sample Preservation and Handling

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

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

3.5.3 Chain of Custody

A 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**.

3.5.4 Laboratory Analysis

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

3.5.5 Monitor Period Sampling Events 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 preceding year. Semi-annual Assessment Monitoring sampling events occurred in May 2021 and October-November 2021.

The first semi-annual assessment monitoring event took place between May 10, 2021 and May 28, 2021. A groundwater monitoring report summarizing data and activities from semi-annual sampling event 1 was submitted to the Department in July 2021. The second semi-annual assessment monitoring event took place between October 18, 2021, and November 5, 2021.

Groundwater samples were analyzed for the full list of Appendix III and Appendix IV parameters during each Assessment Monitoring event. All groundwater sampling activities were conducted by APC Field and Water Services. Pace Analytical Services performed the laboratory analyses of Radium-226 and Radium-228 (reported combined). APCEL performed the remaining Appendix III and Appendix IV analyses. Analytical data from the groundwater monitoring events is included as **Appendix 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

During the May 2021 sampling event, depths to water ranged from 4.2 to 23.65 feet below top of casing (BTOC) and groundwater elevations ranged from 1.89 to 7.49 feet above mean sea level (ft MSL) from west (near Gypsum Pond) to east (Ash Pond). Many vertical delineations wells (denoted with a “V”) installed deeper within Unit 3 sands display groundwater elevations higher than the more shallow, paired location. This indicates some level of confining conditions between the two zones in some locales and indicates an upward vertical gradient in which deeper groundwater is flowing upwards towards more shallow intervals.

Figure 6A, Potentiometric Surface Contour Map (May 24, 2021), depict groundwater elevations and inferred groundwater flow direction during the first 2021 semi-annual sampling event. **Figure 6A** has been edited and resubmitted to address a previous erroneous groundwater elevation label of -7.64 ft MSL for monitoring well BY-AP-MW-9 caused by an inadvertent typographical data entry error. The current iteration of **Figure 6A** reflects the corrected elevation of 2.36 ft MSL for monitoring well BY-AP-MW-9.

During the October-November 2021 sampling event, depths to water ranged from 4.51 to 26.15 ft BTOC and groundwater elevations ranged from 1.56 to 7.19 feet above MSL. **Figure 6B, Potentiometric Surface Contour Map (October 18, 2021)** depicts groundwater elevations and inferred groundwater flow direction during the second 2021 semi-annual sampling event.

As shown on **Figure 6A and Figure 6B**, groundwater flows from south to north across the Site, consistent with previous events. Groundwater elevations from well BY-AP-MW-1 are not factored into potentiometric surfaces as this well is installed in a perched or laterally discontinuous sand layer beneath the Unit 1 clay and data shows vertical confinement between this layer and Unit 3. Recent groundwater elevation data has been tabulated and included in **Table 3, Recent Groundwater Elevations Summary**. All available historical groundwater elevation data recorded since 2016 has been tabulated and included in **Appendix B**.

4.1 GROUNDWATER FLOW VELOCITY CALCULATIONS

Groundwater flow rates at the site were calculated based on hydraulic gradients, hydraulic conductivity from aquifer pump test results, and an estimated effective porosity of the screened horizon. Slug testing provided horizontal hydraulic conductivities for the Watercourse Aquifer (Unit 3) between 2.1×10^{-2} cm/sec and 6.75×10^{-3} cm/sec with an average of 1.0×10^{-2} cm/sec at the Ash Pond. Long duration pump

testing of the Watercourse Aquifer revealed an average hydraulic conductivity of 3.3×10^{-3} cm/sec. The pumping test hydraulic conductivity value of 3.3×10^{-3} cm/sec or 9.4 ft/day was used because the larger volume of aquifer allows averaging of small-scale heterogeneities, while slug tests are smaller in scale and could allow some results to skew an average. An effective porosity of 25% was used based on the default values for effective porosity recommended by EPA for a silty sand-type soil (U.S. USEPA, 1996). The hydraulic gradient was calculated between well pairs shown in **Appendix D, Horizontal Groundwater Flow Velocity Calculation**.

Horizontal flow velocity was calculated using the commonly used derivative of Darcy's Law:

$$V = \frac{K * i}{n_e}$$

Where:

V = Groundwater flow velocity $\left(\frac{feet}{day}\right)$

K = Average permeability of the aquifer $\left(\frac{feet}{day}\right)$

i = Horizontal hydraulic gradient

n_e = Effective porosity

Appendix D presents the estimated horizontal flow velocity calculated using groundwater elevation data from the first and second semi-annual sampling events in 2021.

5.0 EVALUATION OF GROUNDWATER QUALITY DATA

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

5.1 DATA VALIDATION – QUALITY ASSURANCE/QUALITY CONTROL

Analytical precision is measured through the calculation of the relative percent difference (RPD) of two data sets generated from a similar source. Here, a comparison of results between samples and field duplicate samples is 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 RPD is below 20%, the difference is considered acceptable, and no further action is needed. Where an RPD is greater than 20%, further evaluation is required to attempt to determine the cause of the difference and potentially result in qualified data. **Table 4A, Relative Percent Difference Calculations**, provides the relative percent differences for sample and sample duplicates during the second semi-annual monitoring event of 2021. Fluoride and total dissolved solids (TDS) were detected at low level concentrations of duplicate groundwater samples collected from well locations BY-GSA-MW-1 and BY-UP-MW-3, respectively. Though RPD values exceeded 20%, both sample and duplicate concentrations were less than five times the MDL/RL. Consequently, validation flags to indicate RPD criteria failure were not required.

RPD calculations for the first semi-annual event are in **Appendix E, Lab Data Validation – First Semi-Annual Monitoring Event**. All RPDs were below 20% for the first semi-annual 2021 sampling event.

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

Table 4C, Field QC: Validation Results (Blanks) provides a summarized list of data validation flags that could be applied to site data during the second semi-annual monitoring period. Validated flags do not have an impact on possible statistical analyses due to: (1) low-level concentrations flagged during validation and or (2) constituents flagged are not Site COI. The extent of trace chromium detections in blanks can be explained by a low MDL value of 0.000203 mg/L.

5.2 STATISTICAL METHODOLOGY AND TESTS

Sanitas software is used to perform statistical analyses of Site data. 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 and sulfate 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, 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 the September 2019 data screening evaluation and also, included in the revised Statistical Analysis Plan (August 2020). Time series plots were used to screen

proposed background data for suspected outliers, or extreme values that would result in limits that are not conservative from a regulatory perspective. Suspected outliers at all wells for Appendix III parameters are formally tested using Tukey's box plot method and, when identified, flagged in the computer database.

According to the Unified Guidance, the following adjustments are considered part of the statistical analysis program:

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

5.2.2 Appendix IV Evaluation

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

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

As described in 40 CFR § 257.95(h)(1)-(3) and the ADEM Variance 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 confidence interval, exceeds the GWPS as discussed in the USEPA Unified Guidance (2009), the result is recorded as an SSL. Data from upgradient wells collected in between updates may still be used to support ASDs if merited.

5.3 STATISTICAL EXCEEDANCES

Analytical data from the 2021 semi-annual monitoring events in May and October-November 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 E, 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 E**.

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

Statistical analysis of Appendix IV data identified the following statistically significant levels (SSLs) over GWPS at the listed wells during the first and second semi-annual monitoring events:

- BY-AP-MW-1: Arsenic.
- BY-AP-MW-5: Arsenic
- BY-AP-MW-7: Arsenic, Cobalt.
- BY-AP-MW-8: Arsenic.
- BY-AP-MW-9: Arsenic.
- BY-AP-MW-10: Arsenic.
- BY-AP-MW-11: Arsenic.
- BY-AP-MW-12: Arsenic.
- BY-AP-MW-13: Arsenic.
- BY-AP-MW-14: Arsenic.
- BY-AP-MW-15: Arsenic, Cobalt.
- BY-AP-MW-16: Arsenic.

Monitoring well BY-AP-MW-5 and delineation well BY-AP-MW-5V were inaccessible during the first semi-annual sampling event due to construction in the area and therefore were not sampled. However, monitoring well BY-AP-MW-5 has historically exhibited an SSL for Arsenic. **Table 6, First Semi-Annual Monitoring Event Analytical Summary**, and **Table 7, Second Semi-Annual Monitoring Event Analytical Summary**, provide a summary of all detected constituents for the first and second semi-annual sampling events.

5.3.2.1 Delineation Wells

Limited groundwater analytical data is available for delineation wells installed at the site from December 2018 through present. Therefore, groundwater quality is simply compared to the GWPS in lieu of statistical comparison using confidence intervals. A review of analytical data derived from delineation wells identified the following GWPS exceedances during the first semi-annual sampling event:

- BY-AP-MW-12V: Arsenic
- BY-AP-MW-15V: Arsenic, Cobalt
- BY-AP-MW-17H: Arsenic
- BY-AP-MW-17V: Cobalt

- BY-AP-MW-18H: Arsenic
- BY-AP-MW-20H: Arsenic
- BY-AP-MW-20V: Arsenic, Cobalt.
- BY-AP-MW-22H: Arsenic
- BY-AP-MW-23H: Arsenic
- BY-AP-MW-24H: Arsenic

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

- BY-AP-MW-12V: Arsenic
- BY-AP-MW-13V: Arsenic, Lithium
- BY-AP-MW-15V: Arsenic, Cobalt
- BY-AP-MW-16V: Cobalt
- BY-AP-MW-17H: Arsenic
- BY-AP-MW-18H: Arsenic
- BY-AP-MW-20H: Arsenic
- BY-AP-MW-20V: Arsenic, Cobalt.
- BY-AP-MW-22H: Arsenic
- BY-AP-MW-24H: Arsenic

Details regarding the installation and sampling of these wells, and future proposed actions as a result of these exceedances, were submitted to ADEM in a Groundwater Investigation Report on May 13, 2019, and subsequent progress updates submitted in September 2019, March 2020, and on September 30, 2020. SSLs of lithium have not been observed historically in Site compliance wells and therefore, the lithium exceedance noted for vertical delineation well BY-AP-MW-13V in the list above is likely an anomaly. The first three sampling events have shown 100% non-detects for lithium in well BY-AP-MW-13V and paired compliance well BY-AP-MW-13 has a history of 100% non-detects. Previously, a lithium exceedance was noted during the first sampling of vertical delineation well BY-AP-MW-7V. However, the subsequent 6 sampling events have been non-detect proving the initial result to be an outlier. No actions are planned for this observation.

To address SSLs at the site, an ACM was prepared to evaluate potential groundwater corrective measures for the occurrence of arsenic and cobalt in groundwater at the site in accordance with § 257.96, ADEM

Admin. Code r. 335-13-15-.06(7), and ADEM AO 18-094-GW. The ACM was submitted to ADEM and placed in the operating record on June 12, 2019. A Groundwater Remedy Selection Report was prepared and submitted to ADEM on October 29, 2021. Subsequently, within 90 days of remedy selection, a Corrective Action Groundwater Monitoring Program was developed and submitted to ADEM on January 27, 2022, for review.

6.0 GROUNDWATER ASSESSEMENT

As required by Part E of the Order (AO 18-094-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 where Appendix IV constituents are identified at SSLs above the GWPS. Using the conceptual site model (CSM) and analytical results as a guide, horizontal delineation wells were installed to assess lateral extent of groundwater impact in the direction(s) of groundwater flow away from the facility in the upper and middle portions of the Unit 3 sands. Vertical delineation wells were also installed at the base of the Watercourse Aquifer (Unit 3 sands), just above the Unit 4 clay, to assess vertical extent of groundwater impacts to the Watercourse Aquifer.

The follow sections describe monitoring wells installed to delineate impacts to groundwater:

Phase I – Groundwater Investigation (December 2018 to December 2019)

Phase I was conducted between the dates of December 2018 to December 2019. **Table 1b** and **Figure 5** present details and locations of on-site delineation wells. The following summarizes all activities that were completed during Phase I of groundwater delineation at the Site:

- Installed six vertical delineation wells (BY-AP-MW-1V, BY-AP-MW-5V, BY-AP-MW-7V, BY-AP-MW-8V, BY-AP-MW-10V, and BY-AP-MW-12V), three horizontal delineation wells (BY-AP-MW-17H, BY-AP-MW-18H, and BY-AP-MW-24H), and three ash pore-water piezometers (BY-AP-PW-24, BY-AP-PW-25, and BY-AP-PW-26) between December 11, 2018 and January 4, 2019. The remaining scope of delineation well installations described in the Facility Plan could not be achieved at the time due to flooded or wet conditions and were installed in July 2019.
- Collected nine ash samples for waste characterization analyses.
- Developed the six vertical delineation wells and three horizontal delineation wells between December 20, 2018, and January 8, 2019. Horizontal delineation well BY-AP-MW-18H could not be developed until March 20, 2019, due to persistent flood conditions over low-lying areas.
- Collected samples from each delineation and characterization well except BY-AP-MW-17H between January 7, 2019, and March 21, 2019. BY-AP-MW-17H was sampled July 31, 2019.
- Submitted a preliminary Groundwater Investigation Technical Memo to the Department on May 13, 2019. Submitted an Assessment of Corrective Measures for the Ash Pond to the Department on July 11, 2019, as required by Part C of the Order.
- Installed the four remaining horizontal delineation wells (BY-AP-MW-19H, BY-AP-MW-20H, BY-AP-MW-22H, AND BY-AP-MW-23H) and one vertical delineation well (BY-AP-MW-15V) in July 2019. Previously proposed horizontal delineation well BY-AP-MW-21H located south of the Ash Pond and monitor well BY-AP-MW-14 has not been installed due to pervasive wet and unsafe conditions for drilling and therefore, could not be safely accessed to install as planned.
- Developed and sampled the four horizontal delineation wells and one vertical delineation well between July 28, 2019, and August 2nd, 2019.
- Submitted Groundwater Investigation Report on December 15, 2019, to the Department summarizing Phase I groundwater investigation findings and included a work plan for a Phase II investigation.

- Provided the Department with a response on December 30, 2019, for comments received from the Department on November 14, 2019 regarding previously submitted CCR documents.
- Submitted the 2019 Annual Groundwater Monitoring and Corrective Action Report on January 31, 2020.

Phase II – Groundwater Investigation (February 2020 to June 2020)

Following a review of data gathered from the Phase I Investigation, additional groundwater investigation was proposed to the ADEM in the Groundwater Investigation Report submitted December 15, 2019. The review of delineation results discussed in preceding sections indicated that an additional phase of investigation was warranted to complete delineation in certain areas of the Site. Phase II was conducted between the dates of February 2020 to June 2020. The following summarizes all activities that were completed during Phase II of groundwater delineation at the Site:

- Completed the semi-annual assessment groundwater sampling event between March 30, 2020, and April 1, 2020.
- Installed seven deep vertical delineation wells (BY-AP-MW-13V, BY-AP-MW-14V, BY-AP-MW-16V, BY-AP-MW-17V, BY-AP-MW-20V, and BY-AP-MW-23V) and one horizontal delineation well (BY-AP-MW-25H) between March 25, 2020, and April 13, 2020.
- Advanced two Type III (double-cased) deep vertical delineation well borings (BY-AP-MW-12VM, and BY-AP-MW-15VM,) between March 28, 2020, and April 23, 2020. BY-AP-MW-12VM was abandoned and BY-AP-MW-15VM was installed as a water level only piezometer.
- Developed eight delineation wells and one piezometer between May 4, 2020, and May 19, 2020. Partial development via airlifting was also employed while the drilling team was on-site in March 2020.
- Sampled the eight delineation wells between June 15, 2020, and June 17, 2020.

6.2 NATURE AND ESTIMATED QUANTITY OF RELEASE

Part B of the Order requires collecting data on the nature and estimated quantity of material released. To collect data regarding the nature of the source and estimated quantity of material released leachability testing of 9 ash samples and sampling of ash pore-water at 3 locations was conducted. Leachability testing was conducted for EPA Resource and Recovery Act (RCRA) heavy metals, while ash pore-water was

sampled for all EPA Appendix III and IV constituents. Groundwater quality data is compared to source water and leachate composition to provide a basis for evaluating the degree to which the source area has contributed constituents to groundwater.

6.3 DISCUSSION OF DELINEATION RESULTS

Two phases of delineation investigation have been completed at the site and the horizontal and vertical delineation of Appendix IV SSLs arsenic and cobalt, is largely complete. Additional delineation to define the horizontal extent of arsenic occurrences to the south of the Ash Pond is not practical, as the extent is constrained by surface waters. Sufficient data has been collected for the assessment of corrective measures and to develop a groundwater corrective action plan. Cross-sections and isoconcentration maps have been included to convey horizontal and vertical spatial distribution of arsenic and cobalt concentrations.

Lithium was identified at vertical delineation well BY-AP-MW-7V on January 9, 2019, during delineation efforts for arsenic and cobalt. However, during the five (5) subsequent sampling events lithium in well BY-AP-MW-7V was not detected indicating that the initial occurrence of lithium was likely the result of sampling or analytical error. An additional re-sample was collected and the result for lithium was non-detect. Additional delineation is not required in the area of this delineation well at this time. Lithium was detected above GWPS in well BY-AP-MW-7 (0.0882 mg/L) for the first time during the first 2021 semi-annual groundwater sampling event but was below GWPS (0.02 mg/L) during the second semi-annual groundwater sampling event. Additionally, a lithium concentration of 0.0484 mg/l was detected at vertical delineation well BY-AP-MW-13V slightly above the GWPS (0.04 mg/l) for the first time during the second semi-annual groundwater sampling event. Historically, lithium has been detected above GWPS one time in three Site wells (BY-AP-MW-7V, BY-AP-MW-7, and BY-AP-MW-13V). The most recent concentration in delineation well BY-AP-MW-13V is considered an outlier and not related to the ash pond.

Analytical results from horizontal and vertical delineation wells identified concentrations above GWPS of EPA Appendix IV constituents: arsenic and cobalt during the second semi-annual monitoring period of 2021.

Arsenic concentrations above GWPS were detected in five horizontal delineation wells and four vertical delineation wells. **Figure 7A, Arsenic Isoconcentration Contour Map** illustrates the horizontal extent of arsenic impacts to groundwater. **Figure 8A, Arsenic Concentrations Along Geologic Cross Section A-A'** and **Figure 8B, Arsenic Concentrations Along Geologic Cross Section B-B'** illustrate the vertical extent of arsenic impacts to groundwater.

Cobalt concentrations above GWPS were detected in three vertical delineation wells. **Figure 7B, Cobalt Isoconcentration Contour Map** illustrates the horizontal extent of cobalt. **Figure 9A, Cobalt Concentrations Along Geologic Cross Section A-A'** and **Figure 9B, Cobalt Concentrations Along Geologic Cross Section B-B'** illustrate the vertical extent of arsenic impacts to groundwater.

Isoconcentration lines shown on **Figures 7A** and **7B** are data-driven contours derived from the spatial distribution of constituent concentrations in the well network. When spatially distributed objects are correlated (i.e., objects close together with similar characteristics are compared), mathematical interpolation can be used to predict quantities between the objects. In this case, the Geostatistical Analyst tool within ArcGIS was utilized to interpolate constituent concentrations between well locations within the area where concentrations were above laboratory method detection limits.

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 takes into account the spatial pattern of decreasing concentrations observed in nearby wells.

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

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

As shown on **Table 1B**, 22 delineation wells and one piezometer have been installed at the site to assess horizontal and vertical potential impacts.

Compliance (assessment) monitoring and delineation sampling events have shown elevated arsenic and cobalt in the Watercourse Aquifer beneath the Site. Arsenic is the most widely distributed of these constituents and this spatial distribution generally mimics the groundwater flow direction across the Site as

shown on **Figure 6A, Figure 6B, and Figure 7A**. Groundwater flow can generally be described as from west to east across the Site with bends to the north and southeast conforming to the shape of the Mobile River. A truly radial flow pattern is not evident at the Site because the Ash Pond is directly underlain by a low permeability, organic clay of sufficient thickness to form an aquitard between the Ash Pond and underlying Watercourse Aquifer (Unit 1). While piezometric data (groundwater elevations) presented on potentiometric surfaces are generally above the base of ash this does not mean that ash is in direct communication with the Watercourse Aquifer because piezometric elevations (groundwater elevations) are representative of the potential head in wells tapping the aquifer not the vertical elevation in which groundwater occurs. Beneath the Ash Pond, the Unit 1 clay physically and hydraulically separates ash pore water and Watercourse Aquifer groundwater and therefore, constituent migration occurs slowly across the Unit 1 clay and is driven by higher hydraulic heads (vertical gradient) in the Ash Pond relative to the underlying Watercourse Aquifer.

Horizontal delineation efforts at the Site are restricted to a high degree by physical site conditions. Year-round wet conditions exist a short distance away from the base of the Ash Pond dike in many areas around the Ash Pond. Except for areas to the far north of the pond, all other areas are inaccessible during the wet season and during the timeframe it takes to dry out post-wet season. Vertical delineation efforts largely focused near the base of the Unit 3 sand and above the Unit 4 clays.

6.3.1 Arsenic Delineation

Sampling results from the 22 Phase I and Phase II delineation wells show that arsenic concentrations above the GWPS (0.01 mg/L) extend proximal to the river and include two horizontal delineation wells to the north (BY-AP-MW-17H and BY-AP-MW-18H), one horizontal delineation well (BY-AP-MW-20H) and three vertical delineation wells (BY-AP-MW-12V, BY-AP-MW-13V, and BY-AP-MW-20V) to the southeast, and two horizontal delineation wells (BY-AP-MW-22H and BY-AP-MW-24H) and one vertical delineation well (BY-AP-MW-15V) to the southwest of the Ash Pond in the direction of groundwater flow. In general, groundwater impacted by arsenic is distributed spatially into two lobes – (1) a smaller lobe that underlies the very northwestern corner of the Ash Pond and extends in the direction of groundwater flow north-northwest to the plant proper and (2) an eastern lobe that extends east of the Ash Pond.

These two lobes are separated by a north to north-northeast trending wedge of un-impacted groundwater water between the western boundary (between wells MW-1 and MW-5) and the the northern boundary (between well pair MW-17H/17V and well MW-18H) as shown on **Figure 7A**. It is not understood exactly why this wedge exists, but wells within this area also display different geochemical facies than surrounding

downgradient wells (calcium-chloride to sodium-chloride water vs calcium-magnesium bicarbonate to calcium-sodium bicarbonate water).

Arsenic concentrations over the GWPS did not extend to any of the vertical delineation wells (BY-AP-MW-5V, BY-AP-MW-7V, BY-AP-MW-8V, BY-AP-MW-17V, BY-AP-MW-23V, and BY-AP-MW-25V) located to the north, northwest, or northeast of the Ash Pond. Horizontal delineation well BY-AP-MW-25H and vertical delineation well BY-AP-MW-25V were installed to define the extent of arsenic impacts to the west of BY-AP-MW-17H/V and northwest of BY-AP-MW-5 and have historically been non-detect (**Appendix A** and **Figure 7A**). Arsenic concentrations over the GWPS did not extend to delineation wells BY-AP-MW-10V and BY-AP-MW-19H to the northeast, BY-AP-MW-14V to the southeast, or BY-AP-MW-16V, BY-AP-MW-1V, and BY-AP-MW-5V to the west. (**Figures 8A and 8B**).

Arsenic concentrations exceed the GWPS in horizontal delineation wells BY-AP-MW-17H and BY-AP-MW-18H located at the property boundary (Mobile River) northwest and northeast of the Ash Pond. Arsenic concentrations exceed the GWPS in horizontal delineation wells BY-AP-MW20H, BY-AP-MW-22H and BY-AP-MW-24 located southeast and southwest of the Ash Pond. To the southeast, south, and southwest of the Site, horizontal delineation wells could not be installed proximal to the property boundary due to wet or unsafe access conditions.

Vertically, arsenic concentrations are delineated within the Unit 3 sands. Arsenic concentrations were detected above the GWPS in one well, BY-AP-MW-15V, southwest of the Ash Pond and three wells, BY-AP-MW-12V, BY-AP-MW-13V, and BY-AP-MW-20V, located along the southeast side of the Ash Pond respectively.

Figure 8A, depicts the spatial extent of arsenic SSLs along the “western dike”. The general spatial pattern matches the interpretation of groundwater flow at the Site. SSLs are observed to the northwest along section A-A’ and near the middle of the Ash Pond dike extending southwest. These impacts are observed where groundwater elevation contours bend semi-radially to the northwest and southeast to conform to the geometry of the Mobile River and obliquely cross the western dike.

To the northwest, arsenic impacts to groundwater historically begin near well BY-AP-MW-5 and extend to delineation well BY-AP-MW-17H. Arsenic concentrations over the GWPS previously observed in the vicinity of BY-AP-MW-5 extend down to approximately -50 ft MSL and are delineated vertically downward to base of Unit 3 as observed in BY-AP-MW-5V and BY-AP-MW-17V. To the southwest, arsenic impacts initially are confined to sands of Unit 2 near BY-AP-MW-1 but slope down to the base of

Unit 3 near well BY-AP-MW-15V and are delineated vertically with the installation of BY-AP-MW-15VM.

Phase II delineation location BY-AP-MW-15VM was designated as a water-level only piezometer. This location appears separated from the Watercourse Aquifer (Unit 2/3 sands) by a lower confining layer (Unit 4) of sufficient thickness to justify water level-only monitoring. BY-AP-PZ-15VM encountered greater than 20 feet of the Unit 4 clays and demonstrates a groundwater elevation difference of 1.00 feet from paired Watercourse Aquifer well BY-AP-MW-15. The groundwater elevation observed in well BY-AP-MW-15VM also indicates an upward vertical gradient (i.e., groundwater flowing upwards), providing further support for a piezometer designation.

Figure 8B, depicts arsenic concentrations proximal to the eastern margin of the site following the same geometry as the Mobile River. In general, **Figure 8B** shows that arsenic SSLs in groundwater are generally contained within the Unit 3 sands with maybe some limited impacts to the very base of Unit 2. Arsenic impacts do not extend to the base of Unit 3 near BY-AP-MW-8V, BY-AP-MW-10V, or BY-AP-MW-14V.

Arsenic concentrations that do extend down to the base of Unit 3 as shown on **Figures 8A** and **8B** are confined by Unit 4 which displays sufficient clay thickness and low hydraulic conductivity (ranging from 1.15×10^{-7} cm/sec to 3.76×10^{-8} cm/sec) to serve as a lower confining unit. A piezometer (BY-AP-MW-15VM) installed in Unit 5 sands (Miocene) also displays an upward hydraulic gradient which prohibits downward vertical migration.

6.3.2 Cobalt Delineation

Delineation results show that cobalt concentrations above the GWPS are limited to small, localized areas southwest (BY-AP-MW-15V and BY-AP-MW-16V) and southeast (BY-AP-MW-20V) of the Ash Pond. Compliance wells BY-AP-MW-7, and compliance wells BY-AP-MW-15 located along the southwest side of the Ash Pond exhibited cobalt above the GWPS (**Figure 7B**).

Cobalt concentrations over the GWPS do not extend to BY-AP-MW-8/8V, BY-AP-MW17H/V, BY-AP-MW-23H/V, and BY-AP-MW-25H/V to the north, BY-AP-MW-1/1V and BY-AP-MW-5/5V to the west, BY-AP-MW-10/10V and BY-AP-MW-12/12V to the east, BY-AP-MW-13/13V and BY-AP-MW-14/14V to the southeast, or BY-AP-MW-22H to the south of BY-AP-MW-15.

Vertically, cobalt concentrations above the GWPS are delineated within the Unit 3 sands at vertical delineation well BY-AP-MW-16V and extend to the base of Unit 3 sands at vertical delineation well BY-AP-MW-15V along the southwest side of the Ash Pond and BY-AP-MW-20V along the southeast side of the Ash Pond.

No other vertical wells at the Site returned cobalt concentrations above the GWPS. **Figure 9A** and **9B**, indicate concentrations with respect to the elevation changes of the monitoring network and lithology of the Site. Vertically, cobalt concentrations are delineated as defined by the previously discussed; thickness of the Unit 4 clay provides sufficient vertical separation between the Unit 3 aquifer and deeper Miocene sand units, permeameter testing values ranging from 1.15×10^{-7} cm/sec to 3.76×10^{-8} cm/sec, and calculated groundwater elevations indicating an upward vertical gradient.

Cobalt has effectively been delineated at the Site and was not detected in ash pore-water samples. This, combined with the isolated occurrences of cobalt over GWPS, indicates potential for a natural source either driven by minor changes in lithology or changes in geochemistry. As shown on **Figure 7B** and **Figures 9A** and **9B**, cobalt exceedances typically occur at greater depths within Unit 3 where the lithology can change (more gravel) and geochemistry changes to a more favorable environment for cobalt mobilization. Cobalt occurrences over the GWPS will be thoroughly evaluated for an alternate source.

6.4 STATUS OF DELINEATION

A plan was executed to investigate potential impacts to groundwater at the Plant Barry ash pond. Two phases of delineation investigation have been completed at the site and the horizontal and vertical delineation of Appendix IV SSLs arsenic and cobalt, is largely complete. Additional delineation to define the horizontal extent of arsenic occurrences to the south of the Ash Pond is not practical, as the extent is constrained by surface waters. Additional vertical delineation of Unit 4 clays confirmed thicknesses of greater than 20 feet and vertical hydraulic conductivity (K_z) values ranging from 5.91×10^{-7} cm/sec to 2.16×10^{-8} cm/sec (1.7×10^{-3} ft/d to 6.1×10^{-5} ft/d), demonstrated that Unit 4 clays do display sufficiently low permeability to be considered confining.

6.5 GROUNDWATER QUALITY CHANGES AND TRENDS

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

- Arsenic concentrations in horizontal delineation well BY-AP-MW-23H decreased to below GWPS during the second 2021 sampling event and have exhibited a trend of fluctuating concentrations above GWPS to below GWPS over the last four sampling events.
- Vertical delineation well BY-AP-MW-13V exhibited an arsenic concentration above GWPS for the first time during second 2021 sampling event.
- Arsenic was not detected above GWPS in any vertical delineation wells located north, northeast, northwest, or west of the ash pond.
- Cobalt concentrations in vertical delineation well BY-AP-MW-17V decreased to below GWPS as part of slowly decreasing trend that began just after installation in June 2020 and October 2021.
- Cobalt concentrations in vertical delineation well BY-AP-MW-16V increased to slightly above GWPS during the second 2021 sampling event and have exhibited a trend of fluctuating concentrations above GWPS to below GWPS over the last four sampling events.
- Cobalt concentrations in compliance well BY-AP-MW-4 decreased to below GWPS during the second 2021 sampling event and have exhibited a trend of fluctuating concentrations above GWPS to below GWPS over the last four sampling events. BY-AP-MW-4 has exhibited a cobalt concentration above GWPS in only two of seventeen sampling events.
- Cobalt concentrations were detected above GWPS in just two compliance wells and three vertical delineation wells during the second 2021 semi-annual sampling event.
- Vertical delineation well BY-AP-MW-13V exhibited a lithium concentration above GWPS for the first time during second 2021 sampling event.
- Historically, lithium has been detected above GWPS one time in three Site wells BY-AP-MW-7V (January 2019), BY-AP-MW-7 (May 2021), and BY-AP-MW-13V (October 2021).

Groundwater quality changes and/or trends are related to closure construction activities and will continue to be observed throughout the closure process. Many of the trends appear to be associated with the ash pond closure activities - namely the halt to sluicing and ash dewatering. Trends and groundwater quality changes will continue to be monitored throughout closure to evaluate assessment needs and to better inform groundwater remedy plans.

7.0 EVALUATION OF GROUNDWATER CORRECTIVE MEASURES

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

7.1 REMEDY SELECTION

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

- 1) Source control to include dewatering, consolidation, capping of the Site.
- 2) Monitored Natural Attenuation (MNA).
- 3) Geochemical manipulation via injections in areas of relatively high concentrations of COIs to remove them from groundwater and immobilize them in situ.

7.1.1 Source Control

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

The pond will be closed by dewatering and consolidating the CCR material to an area located in the north-central portion of the impoundment. This will reduce the closure footprint to an area of approximately 330 acres. Closure of the Site will control the source of CCR constituents to groundwater by: 1) removing free liquid from the CCR; 2) consolidating the area of the CCR footprint to minimize the area of potential infiltration; 3) constructing a soil containment berm to contain the CCR and provide separation between the consolidated footprint and areas where CCR will be excavated and relocated to the consolidated footprint; and 4) grading the CCR to promote runoff and installing a low-permeability geosynthetic cover system to prevent precipitation and stormwater infiltration. The following provides further details regarding these source control measures. Excavation will include removing all visible CCR and over excavating a

minimum of 6 inches of underlying native materials. A soil containment berm will be constructed in areas where the CCR is being excavated along the existing perimeter berm. The soil containment berm will provide a physical barrier between the excavation areas and consolidated footprint. The consolidated CCR footprint will be capped with a final cover system consisting of an engineered synthetic turf and geomembrane (APC 2020).

Consolidating the horizontal footprint by approximately 45%, from 597 acres to 330 acres, will greatly reduce the CCR surface area potentially exposed to groundwater, thereby reducing the leaching potential of COIs to groundwater. CCR removed from outside of the consolidated footprint will be sufficiently dewatered and compacted within the consolidated footprint. The remaining 267 acres will be converted to stormwater runoff ponds for the cover system and consolidated footprint. Details regarding consolidation are provided in the previously submitted Amended Closure Plan for Ash Pond (APC 2020). As discussed, the CCR deposits at the Site (including the consolidated CCR footprint) are separated from the uppermost aquifer (Unit 3) by a low-permeability clay deposit. This serves to isolate the CCR from groundwater at the Site.

A low-permeability soil containment berm is being constructed around the consolidated CCR to contain the CCR material and prevent the lateral migration of water and will be keyed into the low-permeability clay soils in the uppermost geologic unit. The soil containment berm will provide containment of the consolidated CCR footprint and a physical barrier between CCR excavation and the consolidated footprint. Along the inside toe of the soil containment berm, an internal drainage system will be installed. The drainage system will allow for collection of interstitial water and mechanisms for pumping and collection, thereby reducing the probability of groundwater contact.

The final cover will be constructed to “control, minimize or eliminate, to the maximum extent feasible, post-closure infiltration” of stormwater into the closed CCR unit, which will mitigate potential releases of COIs to groundwater. The final cover system, at a minimum, will meet or exceed the requirements of 40 CFR § 257.102(d)(3)(ii) and ADEM Admin. Code r. 335-13-15-.07(3)(d)3.(ii) (alternative cover system). The cover will consist of the following (described from the final CCR surface upward):

- 6 inches of protective soil
- 50-mil low-density polyethylene MicroDrain geomembrane liner
- Engineered synthetic turf product, and sand infill material with a permeability of 10^{-7} cm/sec or less

Infiltration will also be prevented by providing sufficient grades and slopes to:

- Preclude the probability of future impoundment of water or sediment on the cover system
- Ensure slope and cover system stability
- Minimize the need for further maintenance
- Be completed in the shortest amount of time consistent with recognized and generally accepted good engineering practices

7.1.2 Monitored Natural Attenuation

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

- Sorption on iron oxides (arsenic and cobalt)
- Cation exchange on clays (cobalt)
- Coprecipitation in crystalline iron oxides (arsenic and cobalt)
- Precipitation in barium arsenate (arsenic)

Rates of attenuation were determined by results of reactive transport modeling and by extrapolating decreasing trends on the concentration versus time graphs to the GWPS for areas where decreasing trends were observed. Depending on the COIs and well (area), the estimated time to achieve natural attenuation ranges from 7 to 78 years, not considering source control. Source control via closure is expected to shorten this time frame. Most of this range is reasonable compared to durations of other corrective action technologies. However, attenuation capacity will likely need to be enhanced in some areas (e.g., via injection treatment) to reduce the upper end of the time frame for achieving GWPS for both COIs sitewide. Based on MNA case histories for inorganic constituents, MNA time frames typically range from a few years to decades. Because pond closure activities (dewatering, consolidation, and capping) at the Site are projected to take approximately 10 additional years, the time frame for MNA is compatible with the closure period.

Column studies were performed to assess the ability for the aquifer (soil) to chemically attenuate COIs and to help determine the stability of the attenuated COIs. Column studies indicate that arsenic and cobalt are

attenuated (sorbed) by aquifer media. The column attenuation capacity was extrapolated to the entire mass of the aquifer downgradient of the consolidated Site but within the property boundary. The extrapolation showed that the aquifer has an attenuating capacity of many more times the mass of arsenic and cobalt requiring attenuation.

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

7.1.3 Geochemical Manipulation via Injection

Geochemical manipulation via subsurface injections is an in situ remediation technology for inorganic constituents in groundwater. In this technology, treatment solutions are injected to create solid precipitates, which remove COIs from groundwater during their formation and continue to sorb COIs on their surfaces over time. Geochemical manipulation for arsenic is well established, and treatment for cobalt was successful in recent laboratory treatability studies. Geochemical manipulation is an emerging technology for cobalt and other CCR constituents and has had significant technological development over the last 3 years.

Geochemical manipulation was selected because of its effectiveness, ease of implementation versatility (ability to treat more than one COI with the same treatment solution), ability to implement in areas with limited working space, and lack of byproducts that would require further treatment or disposal. Site-specific laboratory treatability studies using Site aquifer media and impacted groundwater will be performed prior to field implementation of injection treatment. These studies will evaluate multiple viable treatment solutions and a range of doses.

After selection of the optimum treatment reagents and doses, injections will be performed in two phases: a field pilot phase and follow-up treatments as needed based on the results of the pilot injections and ongoing groundwater monitoring data. Areas with the highest concentrations of arsenic, lithium, and/or cobalt will be selected for field pilot studies. A requisite monitoring period (anticipated to be approximately 1 year) will follow the field pilot injections. This approach to injection treatment is consistent with adaptive site management for corrective action.

As described in the Groundwater Remedy Selection Report (Anchor QEA 2021), site closure (source control) measures are expected to reduce concentrations of COIs in groundwater. Other areas with SSLs will be treated as needed in a second phase of injection based on groundwater monitoring data from the field pilots and ongoing sitewide monitoring. Depending upon the effectiveness of treatment, injections may need to be repeated periodically, though required time between injection treatments is expected to be years (based on other injection treatment precedents).

7.1.4 Adaptive Site Management

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

7.2 CORRECTIVE ACTION MONITORING PROGRAM

As required by 40 CFR § 257.98(a) and ADEM Admin. Code r. 335-13-15-.06(9)(a), the owner/operator must implement the groundwater remedy within 90 days of selecting a remedy, including establishing a corrective action groundwater monitoring program. That monitoring program must perform the following actions: 1) meet the assessment monitoring requirements of 40 CFR § 257.95 and ADEM Admin. Code r. 335-13-15-.06(6); 2) document the effectiveness of the remedy; and 3) demonstrate compliance with the GWPS.

A Corrective Action Groundwater Monitoring Program (Anchor QEA 2022) document providing site-specific remedy monitoring details was submitted to ADEM on January 27, 2022. This document presents the Corrective Action Groundwater Monitoring Program (Monitoring Program) for the groundwater corrective action remedies implemented at the Plant Barry Ash Pond (Site). Corrective action groundwater monitoring at the Site is required by the U.S. Environmental Protection Agency coal combustion residuals (CCR) Rule 40 Code of Federal Regulations (CFR) § 257.98 and Alabama Department of Environmental Management (ADEM) Administrative Code (Admin. Code) r. 335-13-15-.06(9) to detect potential downgradient changes in groundwater quality and assess the efficacy of the selected groundwater corrective action remedies. This Monitoring Program has been developed to meet the requirements of CFR §

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

Corrective action groundwater monitoring will be performed at the Site in two stages:

- Stage 1, performed during closure when activities will likely create disequilibrium and variability in groundwater flow and chemistry; and
- Stage 2, performed after closure is substantially complete or when groundwater conditions have stabilized.

Stage 1 will include ongoing compliance monitoring, remedial-effectiveness monitoring for geochemical manipulation (injection treatment) pilot studies, 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 1 of the Monitoring Program will be performed during the closure period. Closure activities will improve Site groundwater conditions but likely create disequilibrium and variability during the closure process. Closure activities will likely cause short-term changes in local groundwater conditions, resulting in changes in geochemistry and groundwater flow directions. These changes are expected to result in variability and trends in constituent concentrations that do not represent long-term equilibrium conditions. During this period of disequilibrium, corrective action monitoring will consist of the following:

- Continued assessment monitoring of the certified CCR monitoring system required by the CCR Rule.
- Injection treatment and monitored natural attenuation (MNA) monitoring, with the understanding that MNA monitoring results could be variable during the closure period and may not be representative of post-closure conditions.
- Sentinel/clean-line boundary monitoring to demonstrate that delineation remains complete and that Site conditions continue to be protective of potential human and ecological receptors.

In addition to continued rule-required assessment monitoring, the primary monitoring objectives during Stage 1 are to demonstrate that horizontal and vertical delineation remain complete, demonstrate that natural

attenuation is occurring, and evaluate groundwater constituent of interest (COI) concentrations with respect to standards protective of potential human and ecological receptors.

Stage 2 monitoring will be implemented upon Site closure, with the first two 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 injection treatments (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.

8.0 SUMMARY AND CONCLUSIONS

Semi-annual assessment monitoring events were conducted in May and October-November 2021. Statistical evaluations of the 2021 assessment monitoring data identified SSLs of Appendix IV constituents above the GWPS. To address previously identified SSLs, a Groundwater Remedy Selection Report was prepared and submitted to ADEM on October 29, 2021. Subsequently, within 90 days of remedy selection, a Corrective Action Groundwater Monitoring Program was developed and submitted to ADEM on January 27, 2022, for review.

The Corrective Action Groundwater Monitoring Program was prepared to detect potential downgradient changes in groundwater quality and assess the efficacy of the selected groundwater corrective action remedies. The Monitoring Program will supplement the ongoing CCR compliance groundwater monitoring currently being performed at the Site.

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

- Collect soil and groundwater samples for treatability studies using Site aquifer media and impacted groundwater prior to field implementation of an injection treatment pilot study.
- Conduct batch studies for reagents and doses.
- Conduct column studies for effectiveness.
- Prepare Class V UIC permit.
- Conduct the first semi-annual assessment monitoring event of 2022 and submit the semi-annual groundwater monitoring and corrective action report summarizing the findings to ADEM by July 31, 2022.

9.0 REFERENCES

- Alabama Department of Environmental Management (ADEM), 2018, Solid Waste Program, Division 13, ADEM Admin. Code r. 335-13-15.
- Anchor QEA, June 2021, Semi-Annual Remedy Selection and Design Progress Report Plant Greene County Ash Pond.
- ASTM Standard D5092, 2004(2010)e1, Standard Practice for Design and Installation of Groundwater Monitoring Wells, ASTM International, West Conshohocken, PA, DOI 10.1520/D5092-04R10E01, www.astm.org.
- Chandler, R.V., Moore, J.D., and Gillet, B., 1985, Ground-water chemistry and salt-water encroachment, southern Baldwin County, Alabama: Alabama Geological Survey Bulletin 126, p. 166.
- Davis, M.E., 1987, Stratigraphic and Hydrogeologic Framework of the Alabama Coastal Plain, U.S. Geological Survey, Water-Resources Investigations Report 87-4112.
- Gillet, B., Raymond, D.E., Moore, J.D., and Tew, B.H., 2000, Hydrogeology and Vulnerability to Contamination of Major Aquifers in Alabama: Area 13, Geological Survey of Alabama.
- Hsu, K.J., 1960, Texture and mineralogy of the recent sands of the Gulf Coast, Journal of Sedimentary Petrology, vol. 30, p 380-403.
- USEPA. 2009. Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance.
- USEPA. 2015. Federal Register. Volume 80. No. 74. Friday April 17, 2015. Part II. Environmental Protection Agency. *40 CFR Parts 257 and 261. Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule.* [EPA-HQ-RCRA-2009-0640; FRL-9919-44-OSWER]. RIN-2050-AE81. April.
- United States Geological Survey (USGS), 1980 (Photorevised 1985), The Basin Alabama Quadrangle, 7.5 Minute Series Topographic Map.
- United States Geological Survey (USGS), 1982a (Photorevised 1985), Creola Alabama Quadrangle, 7.5 Minute Series Topographic Map.
- United States Geological Survey (USGS), 1982b, Mount Vernon Alabama Quadrangle, 7.5 Minute Series Topographic Map.
- United States Geological Survey (USGS), 1983, Stiggins Lake Alabama Quadrangle, 7.5 Minute Series Topographic Map.
- Walter, G.R., and Kidd, R.E., 1979, Ground-water management techniques for the control of salt-water encroachment in Gulf Coast aquifer, a summary report: Geological Survey of Alabama open-file report, p. 84.

Tables



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

Well ID	Hydraulic Location	Geologic Unit	Latitude	Longitude	Ground Surface Elevation (ft NAVD)	Top Of Casing Elevation (ft NAVD)	Well Depth (ft BTOC)	Top Of Screen Elevation (ft NAVD)	Bottom Of Screen Elevation (ft NAVD)	Screen Length (ft)	Date Of Installation
WELL NETWORK											
BY-UP-MW-1	Upgradient	Unit 3: Middle Sands (Watercourse Aq)	30.99445	-88.01134	17.49	20.66	44.4	-13.23	-23.23	10	10/7/2015
BY-UP-MW-2	Upgradient	Unit 3: Middle Sands (Watercourse Aq)	30.99425	-88.01331	17.00	19.95	47.6	-17.23	-27.23	10	10/7/2015
BY-UP-MW-3	Upgradient	Unit 3: Middle Sands (Watercourse Aq)	30.9933	-88.01424	20.15	23.24	48.5	-14.89	-24.89	10	10/7/2015
BY-UP-MW-4	Upgradient	Unit 3: Middle Sands (Watercourse Aq)	30.99413	-88.01566	26.16	29.12	64.1	-24.54	-34.54	10	10/13/2015
BY-AP-MW-1	Downgradient	Unit 1-Unit 2 Transition	30.99687	-88.00104	22.91	25.80	46.1	-9.90	-19.90	10	10/7/2015
BY-AP-MW-2	Downgradient	Unit 3: Upper Sands (Watercourse Aq)	30.99815	-88.00234	21.10	23.89	65.4	-31.11	-41.11	10	10/7/2015
BY-AP-MW-3	Downgradient	Unit 3: Middle Sands (Watercourse Aq)	30.99989	-88.00388	23.60	26.61	83.2	-46.18	-56.18	10	10/7/2015
BY-AP-MW-4	Downgradient	Unit 3: Middle Sands (Watercourse Aq)	31.00156	-88.00548	24.05	26.97	84.9	-47.54	-57.54	10	10/7/2015
BY-AP-MW-5	Downgradient	Unit 3: Upper Sands (Watercourse Aq)	31.00405	-88.00772	25.97	28.93	69.0	-29.62	-39.62	10	10/7/2015
BY-AP-MW-6	Downgradient	Unit 3: Middle Sands (Watercourse Aq)	31.0051	-88.00414	23.78	26.69	88.5	-51.42	-61.42	10	10/7/2015
BY-AP-MW-7	Downgradient	Unit 3: Middle Sands (Watercourse Aq)	31.00734	-88.00035	25.78	25.47	89.5	-53.58	-63.58	10	10/7/2015
BY-AP-MW-8	Downgradient	Unit 3: Upper Sands (Watercourse Aq)	31.00832	-87.9958	25.44	25.11	64.8	-29.29	-39.29	10	10/7/2015
BY-AP-MW-9	Downgradient	Unit 3: Upper Sands (Watercourse Aq)	31.00647	-87.9921	21.91	24.39	62.7	-27.92	-37.92	10	10/7/2015

Notes:
 ft = feet; ft NAVD = elevation in feet, referenced to North American Vertical Datum; ft BTOC = depth, referenced in feet below top of casing
 (1) Coordinates have been transformed into 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 Barry Ash Pond**

Well ID	Hydraulic Location	Geologic Unit	Latitude	Longitude	Ground Surface Elevation (ft NAVD)	Top Of Casing Elevation (ft NAVD)	Well Depth (ft BTOC)	Top Of Screen Elevation (ft NAVD)	Bottom Of Screen Elevation (ft NAVD)	Screen Length (ft)	Date Of Installation
WELL NETWORK											
BY-AP-MW-10	Downgradient	Unit 3: Upper Sands (Watercourse Aq)	31.00349	-87.98866	24.21	24.07	68.7	-34.18	-44.18	10	10/7/2015
BY-AP-MW-11	Downgradient	Unit 3: Upper Sands (Watercourse Aq)	31.00014	-87.98764	23.13	23.11	71.1	-37.60	-47.60	10	10/7/2015
BY-AP-MW-12	Downgradient	Unit 3: Middle Sands (Watercourse Aq)	30.99636	-87.98774	21.24	23.88	82.9	-48.65	-58.65	10	10/7/2015
BY-AP-MW-13	Downgradient	Unit 3: Upper Sands (Watercourse Aq)	30.99237	-87.98788	21.29	24.22	73.5	-38.89	-48.89	10	10/7/2015
BY-AP-MW-14	Downgradient	Unit 3: Upper Sands (Watercourse Aq)	30.99035	-87.99085	9.27	11.74	58.0	-35.88	-45.88	10	10/1/2013
BY-AP-MW-15	Downgradient	Unit 3: Middle Sands (Watercourse Aq)	30.99054	-87.99429	21.23	23.89	82.7	-48.39	-58.39	10	10/7/2015
BY-AP-MW-16	Downgradient	Unit 3: Middle Sands (Watercourse Aq)	30.99332	-87.99764	22.05	25.01	67.7	-32.31	-42.31	10	10/7/2015

Notes:
 ft = feet; ft NAVD = elevation in feet, referenced to North American Vertical Datum; ft BTOC = depth, referenced in feet below top of casing
 (1) Coordinates have been transformed into 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 Barry Ash Pond**

Well ID	Hydraulic Location	Geologic Unit	Latitude	Longitude	Ground Surface Elevation (ft NAVD)	Top Of Casing Elevation (ft NAVD)	Well Depth (ft BTOC)	Top Of Screen Elevation (ft NAVD)	Bottom Of Screen Elevation (ft NAVD)	Screen Length (ft)	Date Of Installation
WELL NETWORK											
BY-AP-MW-1V	Vertical Delineation	Unit 3: Lower Sands & Gravel (Watercourse Aq)	30.99688	-88.00105	23.13	26.23	126.5	-89.87	-99.87	10	12/18/2018
BY-AP-MW-5V	Vertical Delineation	Unit 3: Lower Sands & Gravel (Watercourse Aq)	31.00403	-88.00771	25.98	28.94	103.4	-64.02	-74.02	10	12/20/2018
BY-AP-MW-7V	Vertical Delineation	Unit 3: Lower Sands & Gravel (Watercourse Aq)	31.00731	-88.0004	25.62	25.06	106.7	-71.27	-81.27	10	12/12/2018
BY-AP-MW-8V	Vertical Delineation	Unit 3: Lower Sands & Gravel (Watercourse Aq)	31.0083	-87.99577	25.54	25.18	103.0	-67.41	-77.41	10	12/14/2018
BY-AP-MW-10V	Vertical Delineation	Unit 3: Lower Sands & Gravel (Watercourse Aq)	31.00355	-87.98861	22.76	25.39	89.0	-53.24	-63.24	10	12/16/2018
BY-AP-MW-12V	Vertical Delineation	Unit 3: Lower Sands & Gravel (Watercourse Aq)	30.99641	-87.98773	21.05	25.51	94.9	-58.95	-68.95	10	12/17/2018
BY-AP-MW-13V	Vertical Delineation	Unit 3: Lower Sands & Gravel (Watercourse Aq)	30.99228	-87.98791	21.89	24.65	100.8	-65.75	-75.75	10	4/9/2020
BY-AP-MW-14V	Vertical Delineation	Unit 3: Lower Sands & Gravel (Watercourse Aq)	30.9905	-87.99065	21.68	24.72	113.4	-78.18	-88.18	10	4/10/2020
BY-AP-MW-15V	Vertical Delineation	Unit 3: Lower Sands & Gravel (Watercourse Aq)	30.9908	-87.9955	4.05	7.03	86.3	-68.85	-78.85	10	7/23/2019

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 Barry Ash Pond**

Well ID	Hydraulic Location	Geologic Unit	Latitude	Longitude	Ground Surface Elevation (ft NAVD)	Top Of Casing Elevation (ft NAVD)	Well Depth (ft BTOC)	Top Of Screen Elevation (ft NAVD)	Bottom Of Screen Elevation (ft NAVD)	Screen Length (ft)	Date Of Installation
WELL NETWORK											
BY-AP-MW-16V	Vertical Delineation	Unit 3: Middle Sands (Watercourse Aq)	30.99302	-87.99739	23.61	23.65	95.2	-61.09	-71.09	10	4/11/2020
BY-AP-MW-17V	Vertical Delineation	Unit 3: Lower Sands & Gravel (Watercourse Aq)	31.00879	-88.00838	17.41	20.40	100.2	-69.25	-79.25	10	4/11/2020
BY-AP-MW-20V	Vertical Delineation	Unit 3: Lower Sands & Gravel (Watercourse Aq)	30.99579	-87.98777	21.94	24.91	105.7	-70.33	-80.33	10	4/10/2020
BY-AP-MW-23V	Vertical Delineation	Unit 3: Lower Sands & Gravel (Watercourse Aq)	31.00934	-88.00166	12.04	15.33	103.0	-77.14	-87.14	10	3/25/2020
BY-AP-MW-25VM	Vertical Delineation	Unit 3: Lower Sands & Gravel (Watercourse Aq)	31.00473	-88.01308	20.90	23.81	112.9	-78.54	-88.54	10	4/14/2020
BY-AP-MW-17H	Horizontal Delineation	Unit 3: Upper Sands (Watercourse Aq)	31.00883	-88.00832	16.88	19.83	63.4	-33.12	-43.12	10	12/21/2018
BY-AP-MW-18H	Horizontal Delineation	Unit 3: Upper Sands (Watercourse Aq)	31.00856	-87.99552	7.08	10.30	52.6	-31.92	-41.92	10	7/18/2019
BY-AP-MW-19H	Horizontal Delineation	Unit 2: Mixed Sand and Clay	31.00332	-87.98806	6.39	9.40	38.4	-18.61	-28.61	10	7/18/2019
BY-AP-MW-20H	Horizontal Delineation	Unit 2: Mixed Sand and Clay	30.99577	-87.98749	6.51	9.40	47.4	-27.59	-37.59	10	7/18/2019
BY-AP-MW-22H	Horizontal Delineation	Unit 2: Mixed Sand and Clay	30.99014	-87.99409	4.73	7.85	43.1	-27.87	-37.87	10	7/24/2019
BY-AP-MW-23H	Horizontal Delineation	Unit 3: Upper Sands (Watercourse Aq)	31.00953	-88.00147	7.92	10.63	45.1	-24.08	-34.08	10	7/18/2019

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 Barry Ash Pond**

Well ID	Hydraulic Location	Geologic Unit	Latitude	Longitude	Ground Surface Elevation (ft NAVD)	Top Of Casing Elevation (ft NAVD)	Well Depth (ft BTOC)	Top Of Screen Elevation (ft NAVD)	Bottom Of Screen Elevation (ft NAVD)	Screen Length (ft)	Date Of Installation
WELL NETWORK											
BY-AP-MW-24H	Horizontal Delineation	Unit 2: Mixed Sand and Clay	30.99147	-87.99567	23.51	26.28	63.2	-26.49	-36.49	10	12/19/2018
BY-AP-MW-25H	Horizontal Delineation	Unit 3: Middle Sands (Watercourse Aq)	31.00474	-88.01299	20.89	23.82	80.4	-46.09	-56.09	10	4/13/2020

Notes:
 ft = feet; ft NAVD = elevation in feet, referenced to North American Vertical Datum; ft BTOC = depth, referenced in feet below top of casing
 (1) Coordinates have been transformed into 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 Barry Ash Pond**

Well ID	Hydraulic Location	Geologic Unit	Latitude	Longitude	Ground Surface Elevation (ft NAVD)	Top Of Casing Elevation (ft NAVD)	Well Depth (ft BTOC)	Top Of Screen Elevation (ft NAVD)	Bottom Of Screen Elevation (ft NAVD)	Screen Length (ft)	Date Of Installation
WELL NETWORK											
BY-AP-MW-15VM	Piezometer	Unit 5: Sands (Interpreted Miocene)	30.99054	-87.99416	23.79	23.51	133.5	-99.52	-109.52	10	4/23/2020

Notes:
 ft = feet; ft NAVD = elevation in feet, referenced to North American Vertical Datum; ft BTOC = depth, referenced in feet below top of casing
 (1) Coordinates have been transformed into 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 Barry Ash Pond
10/18/2021 - 10/27/2021

Appendix III Parameters			
Parameters	Analytical Methods	Reporting Limits	Units of Measure
Boron	EPA 200.7	0.1015	mg/L
Calcium	EPA 200.7	0.406-20.299999	mg/L
Chloride	SM4500Cl E	1-16	mg/L
Fluoride	SM4500F G 2017	0.1	mg/L
pH_Field	Field Sampling	NA	SU
Sulfate	SM4500SO4 E 2011	1-4	mg/L
TDS	NA	NA	mg/L
Appendix IV Parameters			
Parameters	Analytical Methods	Reporting Limits	Units of Measure
Antimony	EPA 200.8	0.001015	mg/L
Arsenic	EPA 200.8	0.000203	mg/L
Barium	EPA 200.8	0.000203	mg/L
Beryllium	EPA 200.8	0.001015	mg/L
Cadmium	EPA 200.8	0.000203	mg/L
Chromium	EPA 200.8	0.001015	mg/L
Cobalt	EPA 200.8	0.000203	mg/L
Combined Radium 226 + 228	Total Radium Calculation	NA	pCi/L
Fluoride	SM4500F G 2017	0.1	mg/L
Lead	EPA 200.8	0.000203	mg/L
Lithium	EPA 200.7	0.02	mg/L
Mercury	EPA 245.1	0.0005	mg/L
Molybdenum	EPA 200.8	0.000203	mg/L
Selenium	EPA 200.8	0.001015	mg/L
Thallium	EPA 200.8	0.000203	mg/L

Notes:

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



**Table 3.
Recent Groundwater Elevations Summary**

Well Name	Top of Casing Elevation	Groundwater Elevation (ft AMSL)								
		3/20/2019	5/28/2019	9/30/2019	3/30/2020	5/12/2020	6/15/2020	8/31/2020	5/24/2021	10/18/2021
BY-AP-MW-1	25.80	7.53	4.33	3.4	6.97	4.38	5.02	5.02	5.28	5.06
BY-AP-MW-2	23.89	6.99	3.55	2.74	6.53	3.55	3.81	3.84	3.96	3.63
BY-AP-MW-3	26.61	6.86	3.41	2.6	6.46	3.39	3.70	3.84	3.84	3.47
BY-AP-MW-4	26.97	6.63	3.14	2.33	6.21	3.06	3.39	3.60	3.57	3.15
BY-AP-MW-5	28.93	6.43	2.89	2.08	5.9	2.66	3.00	3.29	--	2.81
BY-AP-MW-6	26.69	6.45	2.66	1.91	6.1	2.51	2.85	3.30	3.04	2.64
BY-AP-MW-7	25.94	6.60	2.47	1.69	6.25	2.31	2.90	3.35	2.53	2.21
BY-AP-MW-8	28.45	6.37	2.17	1.32	5.89	1.53	2.41	3.21	2.35	4.96
BY-AP-MW-9	24.39	6.17	1.96	1.26	5.83	1.47	2.36	2.97	2.36	2.05
BY-AP-MW-10	26.89	6.26	2.12	1.34	4.96	1.58	2.46	3.11	2.17	1.89
BY-AP-MW-11	26.08	6.41	2.32	1.54	5.94	1.64	2.50	3.16	2.41	2.06
BY-AP-MW-12	23.88	5.98	1.97	1.26	6.02	1.52	2.31	2.95	2.48	2.13
BY-AP-MW-13	24.22	6.09	2.11	1.42	5.83	1.68	2.43	3.11	2.64	2.29
BY-AP-MW-14	11.74	5.49	1.6	0.89	5.04	0.97	1.77	1.96	1.89	1.56
BY-AP-MW-15	23.89	6.13	2.23	1.58	5.77	1.93	2.57	3.12	2.74	2.45
BY-AP-MW-16	25.01	6.47	2.82	2.2	6.08	2.35	3.83	3.45	3.22	2.92
BY-AP-MW-1V	26.23	6.90	--	2.65	7.34	3.69	3.61	3.72	3.72	3.43
BY-AP-MW-5V	28.94	6.43	--	2.1	5.88	2.63	3.00	3.32	--	2.79
BY-AP-MW-7V	25.54	6.54	--	1.66	6.03	2.15	2.68	3.13	2.51	2.21
BY-AP-MW-8V	28.25	6.18	--	1.23	5.74	1.44	2.23	2.82	2.41	2.07
BY-AP-MW-10V	25.39	6.09	--	1.21	5.65	1.23	2.17	2.78	2.21	1.93
BY-AP-MW-12V	25.51	8.15	--	3.46	7.83	3.53	4.33	5.00	4.53	4.19
BY-AP-MW-13V	24.65	--	--	--	--	1.48	2.23	2.93	2.47	2.57
BY-AP-MW-14V	24.72	--	--	--	--	2.13	2.26	2.88	2.41	2.09
BY-AP-MW-15V	7.03	--	--	1.97	--	2.17	2.71	3.23	2.83	2.52
BY-AP-MW-15VM	23.51	--	--	--	--	4.15	3.95	3.90	3.98	3.45
BY-AP-MW-16V	23.65	--	--	--	--	2.97	3.15	3.47	3.26	2.94
BY-AP-MW-17H	19.83	--	--	1.51	5.88	1.47	2.36	2.93	2.37	2.14
BY-AP-MW-17V	20.40	--	--	--	--	1.51	2.11	3.01	2.44	2.20
BY-AP-MW-18H	10.30	6.33	--	1.34	5.88	1.87	2.03	3.00	2.40	2.05
BY-AP-MW-19H	9.40	--	--	1.42	5.85	2.02	2.07	3.04	2.45	2.14
BY-AP-MW-20H	9.40	--	--	1.55	5.79	1.55	2.31	2.97	2.51	2.13
BY-AP-MW-20V	24.91	--	--	--	--	1.4	2.19	2.87	2.39	2.04
BY-AP-MW-22H	7.85	--	--	1.85	--	2.17	2.75	3.09	2.80	2.46
BY-AP-MW-23H	10.63	--	--	1.67	5.98	1.55	2.48	3.07	2.44	2.14
BY-AP-MW-23V	15.33	--	--	--	--	1.5	2.09	2.98	2.34	2.15
BY-AP-MW-24H	26.28	6.31	--	1.86	5.82	1.4	2.74	3.16	2.92	2.60
BY-AP-MW-25H	23.82	--	--	--	--	3.49	3.53	3.37	3.63	3.29
BY-AP-MW-25VM	23.81	--	--	--	--	3.22	3.42	3.38	3.58	3.19

Well Name	Top of Casing Elevation	Groundwater Elevation (ft AMSL)						
		3/20/2019	5/28/2019	10/2/2019	3/30/2020	9/8/2020	5/24/2021	10/18/2021
BY-UP-MW-1 ³	20.66	--	6.60	4.78	8.38	5.31	7.13	6.64
BY-UP-MW-2 ³	19.95	--	6.32	4.71	8.05	5.16	6.80	6.4
BY-UP-MW-3 ³	23.24	--	7.02	5.37	8.54	5.83	7.49	7.19
BY-UP-MW-4 ³	29.12	--	6.57	5.16	8.20	5.53	6.99	6.68

Notes:

1. ft. AMSL - feet above mean sea level
2. -- Not Measured
3. BY-GSA-MW-1 - BY-GSA-MW-4 designated as upgradient Ash Pond well locations.



Table 4a. Relative Percent Difference (RPD) Calculations

Plant Barry Ash Pond
10/18/2021 - 11/01/2021

BY-AP-MW-1				
Sample Date = 11/1/2021				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Boron	mg/L	2.02	2.01	0.50%
Calcium	mg/L	38.4	37.7	1.84%
Chloride	mg/L	26.2	31.3	17.74%
Fluoride	mg/L	0.181	0.118	42.14%
Sulfate	mg/L	10.9	11.6	6.22%
TDS	mg/L	480	451	6.23%
Arsenic	mg/L	0.0694	0.0658	5.33%
Barium	mg/L	0.322	0.313	2.84%
Chromium	mg/L	0.00244	0.00246	0.82%
Cobalt	mg/L	0.00091	0.00093	1.52%
BY-AP-MW-15V				
Sample Date = 10/26/2021				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Calcium	mg/L	8.16	8.13	0.37%
Chloride	mg/L	196	183	6.86%
TDS	mg/L	358	321	10.90%
Arsenic	mg/L	0.0248	0.0242	2.45%
Barium	mg/L	0.149	0.149	0.00%
Cobalt	mg/L	0.0757	0.0756	0.13%
BY-AP-MW-17H				
Sample Date = 10/25/2021				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Calcium	mg/L	10.5	10.4	0.96%
Chloride	mg/L	18.4	19.2	4.26%
Fluoride	mg/L	0.162	0.182	11.63%
Sulfate	mg/L	24.5	20.3	18.75%
TDS	mg/L	225	219	2.70%
Arsenic	mg/L	0.0373	0.0364	2.44%
Barium	mg/L	0.0953	0.0974	2.18%
Cobalt	mg/L	0.00371	0.00369	0.54%
Molybdenum	mg/L	0.00078	0.00084	7.77%



Table 4a. Relative Percent Difference (RPD) Calculations

Plant Barry Ash Pond
10/18/2021 - 11/01/2021

BY-AP-MW-18H				
Sample Date = 10/25/2021				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Boron	mg/L	0.934	0.931	0.32%
Calcium	mg/L	26.9	27.1	0.74%
Chloride	mg/L	20.5	20.2	1.47%
Sulfate	mg/L	55	66.8	19.38%
TDS	mg/L	302	309	2.29%
Arsenic	mg/L	0.0156	0.0155	0.64%
Barium	mg/L	0.12	0.122	1.65%
Chromium	mg/L	0.00134	0.00135	0.74%
Cobalt	mg/L	0.00101	0.00103	1.96%
Molybdenum	mg/L	0.00025	0.00024	4.10%
BY-UP-MW-3				
Sample Date = 10/18/2021				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Calcium	mg/L	2.1	2.09	0.48%
Chloride	mg/L	3.45	3.41	1.17%
Sulfate	mg/L	7.36	7.07	4.02%
TDS	mg/L	36	54	40.00%
Barium	mg/L	0.0935	0.0982	4.90%
Chromium	mg/L	0.0013	0.00135	3.77%
Cobalt	mg/L	0.00146	0.00156	6.62%

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 Barry Ash Pond
10/18/2021 - 11/02/2021

Parameters Detected Above MDL					
Sample Date	QC Location	Parameter	Blank Concentration	Units	MDL
11/02/2021	EB-1	Chromium	0.00025 J	mg/L	0.0002
11/01/2021	FB-4	Chromium	0.00023 J	mg/L	0.0002
10/26/2021	FB-1	Chromium	0.0004 J	mg/L	0.0002
10/26/2021	FB-2	Chromium	0.0003 J	mg/L	0.0002
10/25/2021	FB-3	Chromium	0.00023 J	mg/L	0.0002
10/19/2021	EB-1	Chromium	0.00026 J	mg/L	0.0002
10/18/2021	FB-1	Chromium	0.00033 J	mg/L	0.0002

Notes:

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



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

Plant Barry Ash Pond
10/18/2021 - 11/02/2021

List of Compliance Sample Concentrations < 5x Blank Concentrations							
Sample Date	QC Sample	Parameter	QC Sample Result (5x)	Sample Location	Result	Units	Validation Flag
11/01/2021	FB-4	Chromium	0.00117	BY-AP-MW-12V	0.00086 J	mg/L	+(U)*
10/26/2021	FB-1	Chromium	0.00202	BY-AP-MW-14V	0.00098 J	mg/L	+(U)*
10/26/2021	FB-1	Chromium	0.00202	BY-AP-MW-15	0.00052 J	mg/L	+(U)*
10/26/2021	FB-1	Chromium	0.00202	BY-AP-MW-15V	0.00026 J	mg/L	+(U)*
10/26/2021	FB-1	Chromium	0.00202	BY-AP-MW-16V	0.0004 J	mg/L	+(U)*
10/25/2021	FB-3	Chromium	0.00117	BY-AP-MW-17H	0.0006 J	mg/L	+(U)*
10/25/2021	FB-3	Chromium	0.00117	BY-AP-MW-17V	0.00062 J	mg/L	+(U)*
10/25/2021	FB-3	Chromium	0.00117	BY-AP-MW-19H	0.00044 J	mg/L	+(U)*
11/01/2021	FB-4	Chromium	0.00117	BY-AP-MW-1V	0.00045 J	mg/L	+(U)*
11/01/2021	FB-4	Chromium	0.00117	BY-AP-MW-2	0.00029 J	mg/L	+(U)*
11/01/2021	FB-4	Chromium	0.00117	BY-AP-MW-20V	0.00061 J	mg/L	+(U)*
10/26/2021	FB-1	Chromium	0.00202	BY-AP-MW-22H	0.00062 J	mg/L	+(U)*
10/26/2021	FB-1	Chromium	0.00202	BY-AP-MW-23H	0.0007 J	mg/L	+(U)*
10/26/2021	FB-1	Chromium	0.00202	BY-AP-MW-23V	0.00061 J	mg/L	+(U)*
10/26/2021	FB-1	Chromium	0.00202	BY-AP-MW-24H	0.00104 v	mg/L	+(U)*
11/02/2021	EB-1	Chromium	0.00123	BY-AP-MW-25H	0.00098 J	mg/L	+(U)*
11/01/2021	FB-4	Chromium	0.00117	BY-AP-MW-3	0.00093 J	mg/L	+(U)*
11/01/2021	FB-4	Chromium	0.00117	BY-AP-MW-4	0.00067 J	mg/L	+(U)*
11/02/2021	EB-1	Chromium	0.00123	BY-AP-MW-5	0.00101 J	mg/L	+(U)*
11/02/2021	EB-1	Chromium	0.00123	BY-AP-MW-5V	0.00099 J	mg/L	+(U)*
11/02/2021	EB-1	Chromium	0.00123	BY-AP-MW-6	0.00023 J	mg/L	+(U)*
10/26/2021	FB-1	Chromium	0.00202	BY-AP-MW-8	0.00165 v	mg/L	+(U)*
10/26/2021	FB-1	Chromium	0.00202	BY-AP-MW-8V	0.00124 v	mg/L	+(U)*
10/19/2021	EB-1	Chromium	0.00131	BY-UP-MW-1	0.0003 J	mg/L	+(U)*
10/18/2021	FB-1	Chromium	0.00163	BY-UP-MW-3	0.0013 v	mg/L	+(U)*
10/18/2021	FB-1	Chromium	0.00163	BY-UP-MW-4	0.00146 v	mg/L	+(U)*

Notes:

1. Lab qualifiers have been appended to result when applicable
2. QC Sample listed represents the source of comparison, validation flag.
3. Only Appendix 4 Constituents were compared and validated. Radium data was not



Table 5. Summary of Background Levels and Groundwater Protection

Plant Barry Ash Pond

Appendix IV Analytes			
Analyte	Units	Background	GWPS
Antimony	mg/L	0.00102	0.006
Arsenic	mg/L	0.0017	0.01
Barium	mg/L	0.183	2
Beryllium	mg/L	0.00102	0.004
Cadmium	mg/L	0.0002	0.005
Chromium	mg/L	0.01	0.1
Cobalt	mg/L	0.0157	0.0157
Combined Radium 226/228	pCi/L	3	5
Fluoride	mg/L	0.1	4
Lead	mg/L	0.00126	0.015
Lithium	mg/L	0.02	0.04
Mercury	mg/L	0.0005	0.002
Molybdenum	mg/L	0.0002	0.1
Selenium	mg/L	0.00102	0.05
Thallium	mg/L	0.0002	0.002

Notes:

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



Table 6.
First Semi-Annual Monitoring Event Analytical Summary
Plant Barry Ash Pond
5/11/2021-5/25/2021

Analyte	Units	BY-UP-MW-1	BY-UP-MW-2	BY-UP-MW-3	BY-UP-MW-4	BY-AP-MW-1	BY-AP-MW-2	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5
		05/12/2021	05/11/2021	05/11/2021	05/11/2021	05/18/2021	05/18/2021	05/18/2021	05/18/2021	05/18/2021
Appendix III										
Boron	mg/L	0.0841 J	<0.03	<0.03	<0.03	1.99	<0.03	<0.03	<0.03	-NS-
Calcium	mg/L	1.34	1.39	2.06	1.93	39.5	3.17	1.12	0.974	-NS-
Chloride	mg/L	2.18	2.16	3.42	3.33	25.1	7.89	9.52	9.53	-NS-
Fluoride	mg/L	<0.06	<0.06	<0.06	<0.06	0.0884 J	<0.06	<0.06	<0.06	-NS-
pH_Field	SU	4.74	4.29	4.53	4.67	5.86	5.83	4.93	4.17	-NS-
Sulfate	mg/L	16.3	7.92	7.73	6.8	16.5	<0.5	0.883 J	4.43	-NS-
TDS	mg/L	40.7	35.3	44	46.7	450	48.7	38	47.3	-NS-
Appendix IV										
Antimony	mg/L	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	-NS-
Arsenic	mg/L	0.000336	0.000136 J	<6.8e-005	0.000217	0.0687	0.00159	<6.8e-005	0.000125 J	-NS-
Barium	mg/L	0.123	0.165	0.0981	0.125	0.339	0.0259	0.0406	0.0225	-NS-
Beryllium	mg/L	0.000694 J	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	-NS-
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	-NS-
Chromium	mg/L	0.000296 J	0.00136	0.00146	0.00159	0.00294	0.000394 J	0.000919 J	0.000544 J	-NS-
Cobalt	mg/L	0.00611	0.00194	0.00142	0.00137	0.000996	0.00746	0.000196 J	0.018	-NS-
Combined Radium 226 + 228	pCi/L	0.639 U	0.945 U	0.521 U	0.969 U	2.99	0.72 U	0.749 U	0.734 U	-NS-
Lead	mg/L	9.79e-005 J	0.000118 J	<6.8e-005	0.000159 J	<6.8e-005	<6.8e-005	<6.8e-005	0.00013 J	-NS-
Lithium	mg/L	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	-NS-
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	-NS-
Molybdenum	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.000106 J	<6.8e-005	<6.8e-005	<6.8e-005	-NS-
Selenium	mg/L	<0.000507	0.000602 J	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	-NS-
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	-NS-

Notes:

1. J value indicates the result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
2. "<MDL" -Non-Detect and indicates the result was not detected above the MDL.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. TDS - Total Dissolved Solids
5. BY-UP-MW-1 through BY-UP-MW-4 were previously named BY-GSA-MW-1 through BY-GSA-MW-4 and are located south of the Gypsum Pond
6. BY-AP-MW-5 and BY-AP-MW-5V were temporarily unavailable to sample due to ash pond closure activities



Table 6.
First Semi-Annual Monitoring Event Analytical Summary
Plant Barry Ash Pond
5/11/2021-5/25/2021

Analyte	Units	BY-AP-MW-6	BY-AP-MW-7	BY-AP-MW-8	BY-AP-MW-9	BY-AP-MW-10	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-13	BY-AP-MW-14
		05/17/2021	05/18/2021	05/18/2021	05/11/2021	05/18/2021	05/11/2021	05/19/2021	05/18/2021	05/19/2021
Appendix III										
Boron	mg/L	<0.03	0.037 J	0.971	2.08	1.99	0.0856 J	0.0927 J	0.0604 J	0.074 J
Calcium	mg/L	1.93	10.2	33	40.5	62.7	41.5	23.1	12.9	11.2
Chloride	mg/L	6.26	14.2	21.9	18.3	27.3	23.1	25.4	46.8	52.1
Fluoride	mg/L	<0.06	0.11	0.094 J	0.0709 J	0.105	0.0994 J	0.0614 J	0.0748 J	0.0957 J
pH_Field	SU	5.21	6.4	6.25	6.3	6.4	6.33	5.58	5.79	5.82
Sulfate	mg/L	0.981 J	4.6	35.4	27.7	13.2	16.5	25.1	50.4	59.2
TDS	mg/L	46.7	175	318	314	391	422	332	300	318
Appendix IV										
Antimony	mg/L	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507
Arsenic	mg/L	0.000103 J	0.0215	0.0659	0.0435	0.0762	0.0166	0.0237	0.014	0.0172
Barium	mg/L	0.0305	0.07	0.147	0.125	0.0757	0.112	0.0902	0.0817	0.0745
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	0.000313 J	0.00709	0.00156	0.00078 J	0.000685 J	0.00301	0.00377	0.00692	0.00365
Cobalt	mg/L	0.000678	0.0189	0.000778	0.000725	0.000636	0.00257	0.00336	0.00113	0.00124
Combined Radium 226 + 228	pCi/L	1.84	0.597 U	0.648 U	0.98 U	1.12 U	1.15	1.11	1.15	0.978 U
Lead	mg/L	0.00162	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.000102 J	0.000326	<6.8e-005	7.64e-005 J
Lithium	mg/L	<0.007105	0.0882	<0.007105	<0.007105	<0.007105	0.00754 J	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.000117 J	0.000214	0.000321	0.00022	<6.8e-005	0.00652	0.000947	0.000437	0.000701
Selenium	mg/L	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

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



Table 6.
First Semi-Annual Monitoring Event Analytical Summary
Plant Barry Ash Pond
5/11/2021-5/25/2021

Analyte	Units	BY-AP-MW-15	BY-AP-MW-16	BY-AP-MW-1V	BY-AP-MW-5V	BY-AP-MW-7V	BY-AP-MW-8V	BY-AP-MW-10V	BY-AP-MW-12V	BY-AP-MW-13V
		05/25/2021	05/11/2021	05/19/2021	-NS-	05/18/2021	05/18/2021	05/18/2021	05/18/2021	05/19/2021
Appendix III										
Boron	mg/L	0.109	1.74	0.0334 J	-NS-	0.0599 J	0.247	0.971	0.118	0.0976 J
Calcium	mg/L	6.98	14.2	3.79	-NS-	14.1	26.4	64	22.1	12.7
Chloride	mg/L	80	21.4	79.5	-NS-	19	22.7	21	25.5	64.4
Fluoride	mg/L	0.214	0.0793 J	<0.06	-NS-	0.112	0.0958 J	<0.06	0.0783 J	0.0884 J
pH_Field	SU	6.76	5.8	5.55	-NS-	6.53	6.33	6.34	5.92	6.2
Sulfate	mg/L	7.54	3.11	16	-NS-	5.53	19.6	24.9	32.8	39.7
TDS	mg/L	279	274	189	-NS-	192	331	401	329	362
Appendix IV										
Antimony	mg/L	<0.000507	<0.000507	<0.000507	-NS-	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507
Arsenic	mg/L	0.0184	0.0118	0.00144	-NS-	0.00242	0.00398	0.000356	0.0251	0.00877
Barium	mg/L	0.0762	0.102	0.0861	-NS-	0.0805	0.299	0.212	0.111	0.114
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	-NS-	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	-NS-	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	0.000581 J	0.00162	0.000447 J	-NS-	0.000463 J	0.00129	0.000684 J	0.00112	0.00416
Cobalt	mg/L	0.0349	0.0182	0.00483	-NS-	0.000139 J	0.000882	0.000648	0.00237	0.000827
Combined Radium 226 + 228	pCi/L	0.684 U	0.321 U	0.814 U	-NS-	0.199 U	0.975 U	1.66	1.31	0.783 U
Lead	mg/L	<6.8e-005	0.000191 J	<6.8e-005	-NS-	<6.8e-005	<6.8e-005	<6.8e-005	8.16e-005 J	<6.8e-005
Lithium	mg/L	0.00788 J	<0.007105	<0.007105	-NS-	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.0003	<0.0003	<0.0003	-NS-	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.00171	0.000136 J	0.00018 J	-NS-	0.00021	0.000363	0.000148 J	0.00106	0.000642
Selenium	mg/L	<0.000507	<0.000507	<0.000507	-NS-	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	-NS-	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. J value indicates the result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
2. "<MDL" -Non-Detect and indicates the result was not detected above the MDL.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. TDS - Total Dissolved Solids
5. BY-UP-MW-1 through BY-UP-MW-4 were previously named BY-GSA-MW-1 through BY-GSA-MW-4 and are located south of the Gypsum Pond
6. BY-AP-MW-5 and BY-AP-MW-5V were temporarily unavailable to sample due to ash pond closure activities



Table 6.
First Semi-Annual Monitoring Event Analytical Summary
Plant Barry Ash Pond
5/11/2021-5/25/2021

Analyte	Units	BY-AP-MW-14V	BY-AP-MW-15V	BY-AP-MW-16V	BY-AP-MW-17V	BY-AP-MW-20V	BY-AP-MW-23V	BY-AP-MW-25VM	BY-AP-MW-17H	BY-AP-MW-18H
		05/25/2021	05/25/2021	05/19/2021	05/18/2021	05/19/2021	05/17/2021	05/24/2021	05/17/2021	05/19/2021
Appendix III										
Boron	mg/L	0.43	0.0617 J	<0.03	0.124	0.119	0.32	<0.03	0.0911 J	0.866
Calcium	mg/L	4.66	8.47	2.26	15	15.3	1.33	0.554	12.8	27.1
Chloride	mg/L	210	180	81.2	225	32.4	134	3.48	17.1	19.3
Fluoride	mg/L	0.378	<0.06	<0.06	0.16	0.123	0.379	<0.06	0.148	0.0886 J
pH_Field	SU	7.2	5.6	5.24	6.55	6.44	7.87	5.24	6.35	6.23
Sulfate	mg/L	39.5	1.19	40.9	17.4	1.93	6.92	2.59	10.2	7.48
TDS	mg/L	520	335	213	438	271	386	26.7	201	293
Appendix IV										
Antimony	mg/L	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507
Arsenic	mg/L	0.00324	0.0233	0.00123	0.00546	0.0148	0.00119	<6.8e-005	0.0329	0.0147
Barium	mg/L	0.0729	0.184	0.0743	0.255	0.107	0.0094	0.00981	0.125	0.147
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	0.00113	0.000258 J	0.000385 J	0.000973 J	0.000669 J	0.00163	0.00119	0.000627 J	0.00132
Cobalt	mg/L	0.00271	0.0694	0.0153	0.0197	0.0173	0.000217	0.000422	0.0013	0.00109
Combined Radium 226 + 228	pCi/L	0.859 U	1.72	0.496 U	1.05 U	1.43	0.374 U	0.531 U	1.64	0.971 U
Lead	mg/L	7.24e-005 J	<6.8e-005	<6.8e-005	0.000137 J	<6.8e-005	0.000216	<6.8e-005	9.09e-005 J	<6.8e-005
Lithium	mg/L	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.00135	0.000106 J	<6.8e-005	0.000571	0.00155	0.00147	9.23e-005 J	0.000469	0.00025
Selenium	mg/L	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507
Thallium	mg/L	<6.8e-005	8.49e-005 J	9.13e-005 J	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

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



Table 6.
First Semi-Annual Monitoring Event Analytical Summary
Plant Barry Ash Pond
5/11/2021-5/25/2021

Analyte	Units	BY-AP-MW-19H	BY-AP-MW-20H	BY-AP-MW-22H	BY-AP-MW-23H	BY-AP-MW-24H	BY-AP-MW-25H
		05/25/2021	05/19/2021	05/25/2021	05/24/2021	05/25/2021	05/24/2021
Appendix III							
Boron	mg/L	0.252	0.0909 J	0.0889 J	0.0785 J	0.37	<0.03
Calcium	mg/L	23.9	30.9	15.2	27.1	18.6	0.905
Chloride	mg/L	10.7	36.2	65.4	6.33	46	4.72
Fluoride	mg/L	0.0673 J	0.0852 J	0.282	0.0734 J	0.156	<0.06
pH_Field	SU	6.1	6.17	6.44	6.19	6.16	4.12
Sulfate	mg/L	26.6	59.5	72.3	3.99	17	4.94
TDS	mg/L	162	479	378	244	420	39.3
Appendix IV							
Antimony	mg/L	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507
Arsenic	mg/L	0.0015	0.0132	0.0191	0.0133	0.0693	8.73e-005 J
Barium	mg/L	0.104	0.111	0.261	0.208	0.26	0.0206
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	0.000391 J	0.00284	0.000667 J	0.000814 J	0.000878 J	0.00117
Cobalt	mg/L	0.00294	0.00426	0.00264	0.00682	0.00542	0.00156
Combined Radium 226 + 228	pCi/L	1.04 U	1.03 U	1.26	1.1 U	0.695 U	0.545 U
Lead	mg/L	<6.8e-005	0.000224	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.000124 J	0.000503	0.00137	0.00069	0.000869	0.000102 J
Selenium	mg/L	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

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



Table 7.
Second Semi-Annual Monitoring Event Analytical Summary
Plant Barry Ash Pond
10/18/2021-11/2/2021

Analyte	Units	BY-UP-MW-1	BY-UP-MW-2	BY-UP-MW-3	BY-UP-MW-4	BY-AP-MW-1	BY-AP-MW-2	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5
		10/19/2021	10/19/2021	10/18/2021	10/18/2021	11/01/2021	11/01/2021	11/01/2021	11/01/2021	11/02/2021
Appendix III										
Boron	mg/L	0.0708 J	<0.03	<0.03	<0.03	2.01	<0.03	<0.03	<0.03	0.0755 J
Calcium	mg/L	1.17	1.32	2.09	2.01	38.4	3.13	1.09	0.816	16.2
Chloride	mg/L	2.37	2.08	3.45	3.32	31.3	8.16	9.76	7.99	21
Fluoride	mg/L	<0.06	<0.06	<0.06	<0.06	0.181	<0.06	<0.06	<0.06	0.0964 J
pH_Field	SU	4.67	4.6	4.55	4.38	6.01	5.2	4.94	5.18	6.36
Sulfate	mg/L	15.5	7.48	7.07	6.58	11.6	1.56	1.01	3.34	15
TDS	mg/L	40	36	36	36	480	52	35.3	32	297
Appendix IV										
Antimony	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508
Arsenic	mg/L	0.000346	0.000122 J	<6.8e-005	0.000193 J	0.0694	0.00191	<6.8e-005	0.000203	0.0357
Barium	mg/L	0.103	0.145	0.0982	0.124	0.313	0.0247	0.0371	0.0217	0.159
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	0.000301 J	0.00135	0.00135	0.00146	0.00244	0.000288 J	0.000932 J	0.000668 J	0.00101 J
Cobalt	mg/L	0.00517	0.00192	0.00146	0.00139	0.000928	0.00706	0.000156 J	0.00478	0.00197
Combined Radium 226 + 228	pCi/L	1.77	1.85	1.75	2.19	2.22	0.523 U	0.688 U	0.888 U	2.06
Lead	mg/L	0.000115 J	0.0001 J	<6.8e-005	0.00012 J	<6.8e-005	<6.8e-005	<6.8e-005	6.92e-005 J	<6.8e-005
Lithium	mg/L	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	9.01e-005 J	<6.8e-005	<6.8e-005	<6.8e-005	0.000124 J
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

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



Table 7.
Second Semi-Annual Monitoring Event Analytical Summary
Plant Barry Ash Pond
10/18/2021-11/2/2021

Analyte	Units	BY-AP-MW-6	BY-AP-MW-7	BY-AP-MW-8	BY-AP-MW-9	BY-AP-MW-10	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-13	BY-AP-MW-14
		11/02/2021	10/27/2021	10/26/2021	10/27/2021	10/27/2021	11/02/2021	11/01/2021	10/26/2021	10/27/2021
Appendix III										
Boron	mg/L	<0.03	0.0427 J	0.933	2.04	2.39	0.0691 J	0.0769 J	0.0511 J	0.0677 J
Calcium	mg/L	1.97	10	33.5	40.3	64.2	25.8	21.8	12.3	11.4
Chloride	mg/L	6.4	15.3	21.7	19.1	27.2	25.1	27.4	38.4	42.9
Fluoride	mg/L	<0.06	0.0823 J	<0.06	0.0803 J	<0.06	0.101	0.0928 J	0.0641 J	0.0651 J
pH_Field	SU	5.59	6.35	6.26	6.13	5.91	5.84	5.75	5.69	6.41
Sulfate	mg/L	1.37	5.17	25.7	6.33	5.72	133	27	21	98.5
TDS	mg/L	38	123	332	302	373	390	349	280	327
Appendix IV										
Antimony	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508
Arsenic	mg/L	9.83e-005 J	0.0236	0.0668	0.0468	0.0705	0.0161	0.0245	0.013	0.0174
Barium	mg/L	0.0286	0.0664	0.136	0.117	0.0638	0.0894	0.0823	0.0667	0.0651
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	7.34e-005 J	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	0.000232 J	0.00309	0.00165	0.00087 J	0.000724 J	0.00348	0.00423	0.00755	0.00401
Cobalt	mg/L	0.000601	0.0206	0.000788	0.000702	0.000645	0.00118	0.0037	0.00122	0.00125
Combined Radium 226 + 228	pCi/L	0.773 U	1.46 U	1.61	1.07 U	1.2 U	0.504 U	1.79	1.74	0.587 U
Lead	mg/L	0.00336	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.000126 J	0.000292	<6.8e-005	8.69e-005 J
Lithium	mg/L	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.00011 J	0.000182 J	0.000193 J	0.000214	<6.8e-005	0.00161	0.000985	0.000432	0.00053
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

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



Table 7.
Second Semi-Annual Monitoring Event Analytical Summary
Plant Barry Ash Pond
10/18/2021-11/2/2021

Analyte	Units	BY-AP-MW-15	BY-AP-MW-16	BY-AP-MW-1V	BY-AP-MW-5V	BY-AP-MW-7V	BY-AP-MW-8V	BY-AP-MW-10V	BY-AP-MW-12V	BY-AP-MW-13V
		10/26/2021	11/01/2021	11/01/2021	11/02/2021	10/27/2021	10/26/2021	10/27/2021	11/01/2021	10/26/2021
Appendix III										
Boron	mg/L	0.0953 J	2.18	<0.03	<0.03	0.0546 J	0.216	0.933	0.0962 J	0.0888 J
Calcium	mg/L	6.46	13.4	3.68	2.11	17.2	25.7	61.6	21.4	11.3
Chloride	mg/L	85.4	22.3	79.4	30.5	18.9	23.9	21	26.1	47.7
Fluoride	mg/L	0.171	0.0887 J	<0.06	0.0627 J	0.0795 J	0.107	<0.06	0.123	0.096 J
pH_Field	SU	6.7	5.36	5.76	6.35	6.78	6.26	6.1	6.09	6.81
Sulfate	mg/L	26.4	11.9	20.2	1.34	5.31	58.2	6.04	10.9	47.3
TDS	mg/L	269	324	190	77.3	169	350	400	352	355
Appendix IV										
Antimony	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508
Arsenic	mg/L	0.0186	0.0151	0.000856	0.00101	0.0027	0.0048	0.000331	0.0256	0.0103
Barium	mg/L	0.0784	0.0988	0.0731	0.0368	0.0684	0.282	0.182	0.103	0.0827
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	0.00052 J	0.0018	0.000454 J	0.000991 J	0.000515 J	0.00124	0.000677 J	0.000862 J	0.00606
Cobalt	mg/L	0.0347	0.0139	0.00578	0.000132 J	0.000134 J	0.000879	0.000613	0.00231	0.00114
Combined Radium 226 + 228	pCi/L	1.95	1.28	1.3 U	0.158 U	0.914 U	1.61	1.44 U	0.814 U	1.6
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.0117 J	<0.007105	<0.007105	<0.007105	0.00746 J	<0.007105	<0.007105	<0.007105	0.0484
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.00206	<6.8e-005	0.00013 J	8.05e-005 J	0.000456	0.000276	0.000143 J	0.00118	0.00135
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

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



Table 7.
Second Semi-Annual Monitoring Event Analytical Summary
Plant Barry Ash Pond
10/18/2021-11/2/2021

Analyte	Units	BY-AP-MW-14V	BY-AP-MW-15V	BY-AP-MW-16V	BY-AP-MW-17V	BY-AP-MW-20V	BY-AP-MW-23V	BY-AP-MW-25VM	BY-AP-MW-17H	BY-AP-MW-18H
		10/26/2021	10/26/2021	10/26/2021	10/25/2021	11/01/2021	10/26/2021	11/02/2021	10/25/2021	10/25/2021
Appendix III										
Boron	mg/L	0.393	0.0498 J	<0.03	0.113	0.11	0.306	<0.03	0.0887 J	0.934
Calcium	mg/L	5.28	8.13	1.96	6.58	15.1	0.837	0.567	10.4	27.1
Chloride	mg/L	191	196	68.3	111	29.6	124	3.42	18.4	20.5
Fluoride	mg/L	0.384	<0.06	<0.06	0.172	0.14	0.445	<0.06	0.182	0.0728 J
pH_Field	SU	6.91	5.93	5.26	6.53	6	8.31	5.13	6.48	6.76
Sulfate	mg/L	75.1	0.829 J	38.1	11	5.66	4.23	2.08	20.3	66.8
TDS	mg/L	474	358	195	280	282	362	36	225	302
Appendix IV										
Antimony	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508
Arsenic	mg/L	0.0041	0.0248	0.00105	0.00162	0.0182	0.00119	<6.8e-005	0.0373	0.0156
Barium	mg/L	0.0653	0.149	0.0589	0.0928	0.0883	0.00766	0.00907	0.0974	0.122
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	0.00098 J	0.000264 J	0.000402 J	0.000619 J	0.000606 J	0.000605 J	0.0013	0.000597 J	0.00134
Cobalt	mg/L	0.00419	0.0757	0.0159	0.00915	0.0236	<6.8e-005	0.000366	0.00369	0.00103
Combined Radium 226 + 228	pCi/L	1.34 U	2.53	0.773 U	1.04 U	1.48	0.285 U	1.05 U	1.57	1.2
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	9.98e-005 J	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.0012	0.00011 J	<6.8e-005	0.000877	0.00181	0.00124	<6.8e-005	0.000842	0.000239
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508
Thallium	mg/L	<6.8e-005	8.68e-005 J	0.000103 J	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

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



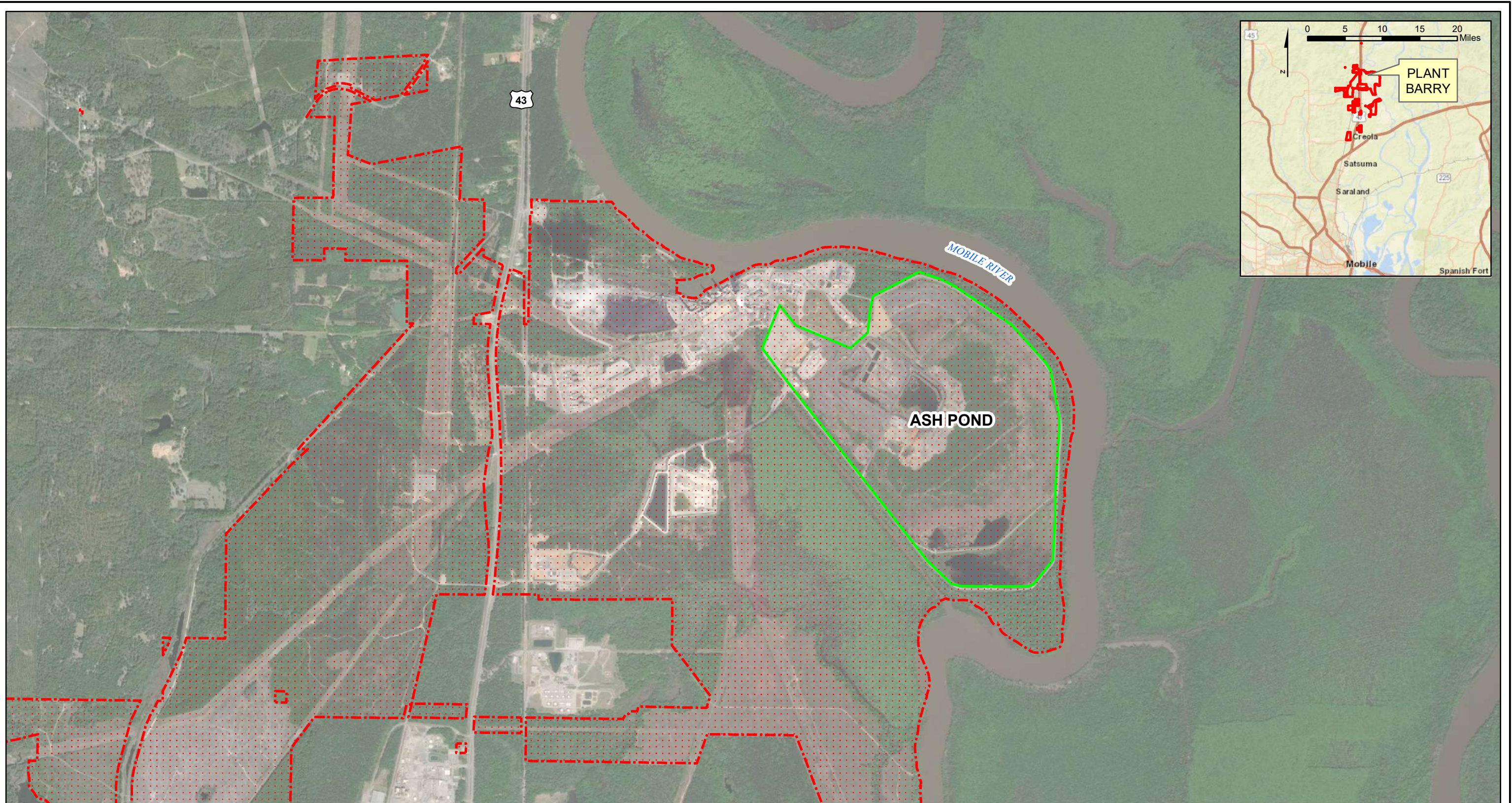
Table 7.
Second Semi-Annual Monitoring Event Analytical Summary
Plant Barry Ash Pond
10/18/2021-11/2/2021

Analyte	Units	BY-AP-MW-19H	BY-AP-MW-20H	BY-AP-MW-22H	BY-AP-MW-23H	BY-AP-MW-24H	BY-AP-MW-25H
		10/25/2021	10/26/2021	10/26/2021	10/26/2021	10/26/2021	11/02/2021
Appendix III							
Boron	mg/L	0.142	0.0784 J	0.0725 J	0.0709 J	0.354	<0.03
Calcium	mg/L	18.3	30.2	15.1	29.4	18.4	1.05
Chloride	mg/L	10.1	34	54.5	5.64	41.6	5.07
Fluoride	mg/L	<0.06	0.114	0.323	0.0709 J	0.158	<0.06
pH_Field	SU	6.13	6.49	6.86	6.54	6.2	5.01
Sulfate	mg/L	28.7	73.2	140	29.5	122	4.28
TDS	mg/L	123	493	362	252	448	34.7
Appendix IV							
Antimony	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508
Arsenic	mg/L	0.00134	0.0133	0.0202	0.00807	0.0752	0.000162 J
Barium	mg/L	0.0738	0.0936	0.202	0.188	0.238	0.0203
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	0.00044 J	0.00261	0.000618 J	0.000696 J	0.00104	0.000976 J
Cobalt	mg/L	0.00501	0.00447	0.00285	0.00495	0.00591	0.00146
Combined Radium 226 + 228	pCi/L	1.03 U	1.28 U	1.52	1.13 U	0.987 U	0.707 U
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	8.42e-005 J	0.000482	0.00136	0.00035	0.000964	0.00014 J
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005



Notes:

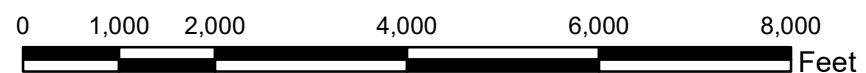
1. J value indicates the result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
2. "<MDL" -Non-Detect and indicates the result was not detected above the MDL.
3. U - Radium data is a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

Figures




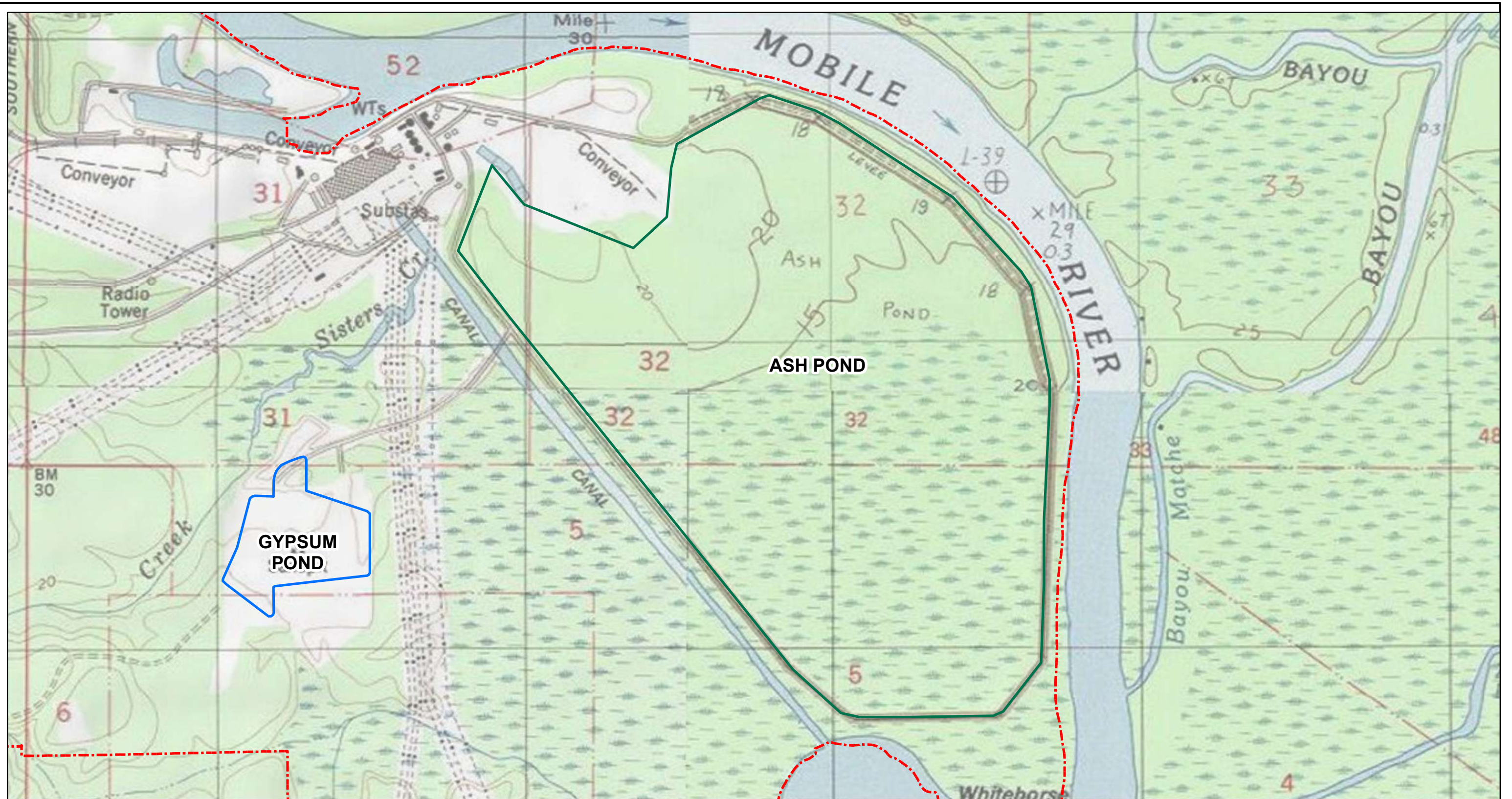
Legend

-  Property Boundary (Approximate)
-  Ash Pond Boundary

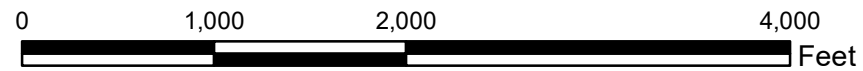


SCALE	1:24000
DATE	10/27/2020
DRAWN BY	KWR
CHECKED BY	GBD

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



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



SCALE 1:12000

DATE 10/16/2020

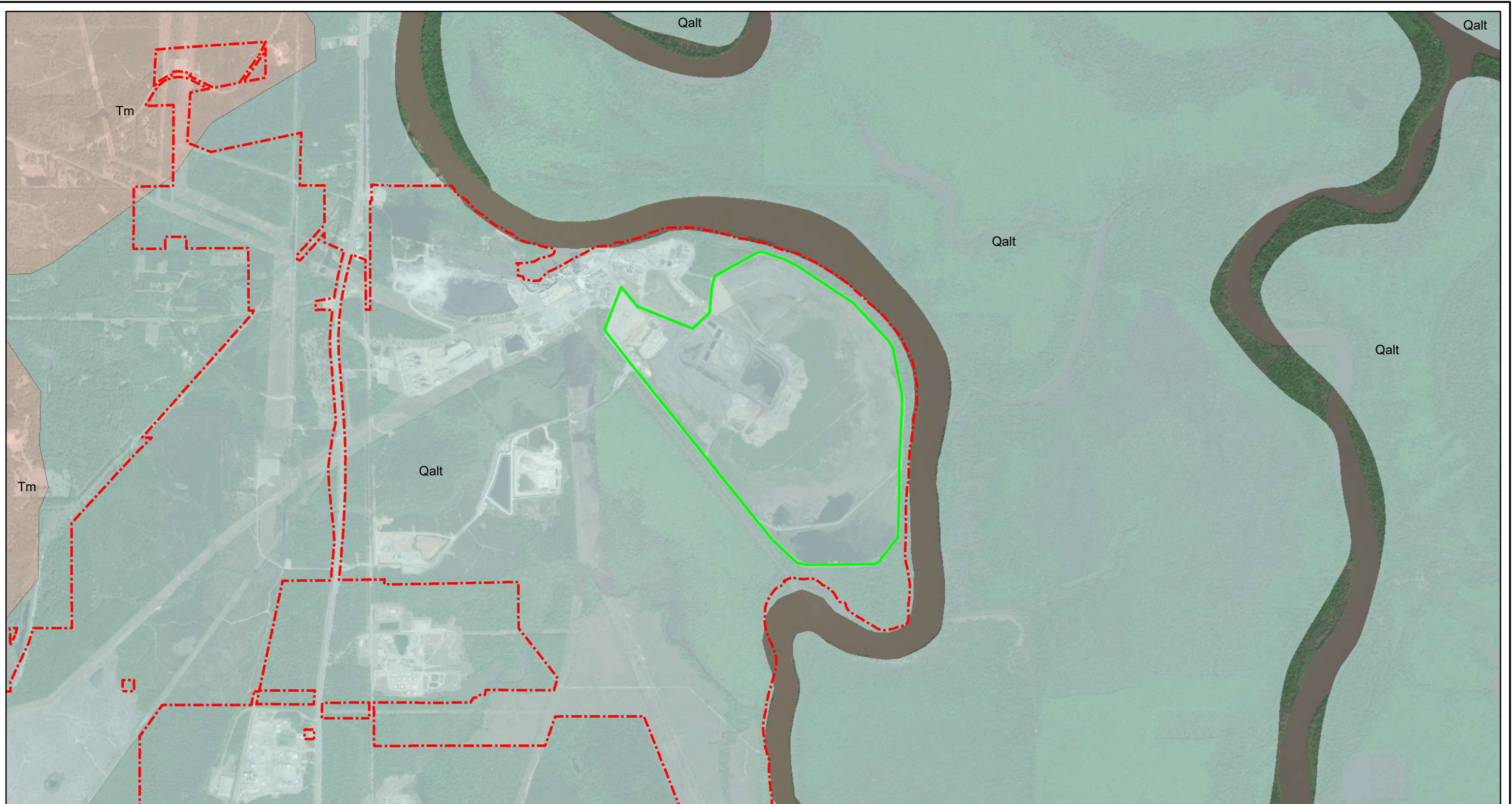
DRAWN BY KWR

CHECKED BY GBD

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

FIGURE NO
FIGURE 2



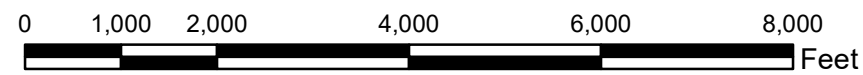


Legend

- Ash Pond Boundary
- Property Boundary (Approximate)

Geologic Units

- Alluvial, coastal, and low terrace deposits (Qalt)
- Miocene Series undifferentiated (Tm)



SCALE 1:24000

DATE 10/16/2020

DRAWN BY KWR

CHECKED BY GBD

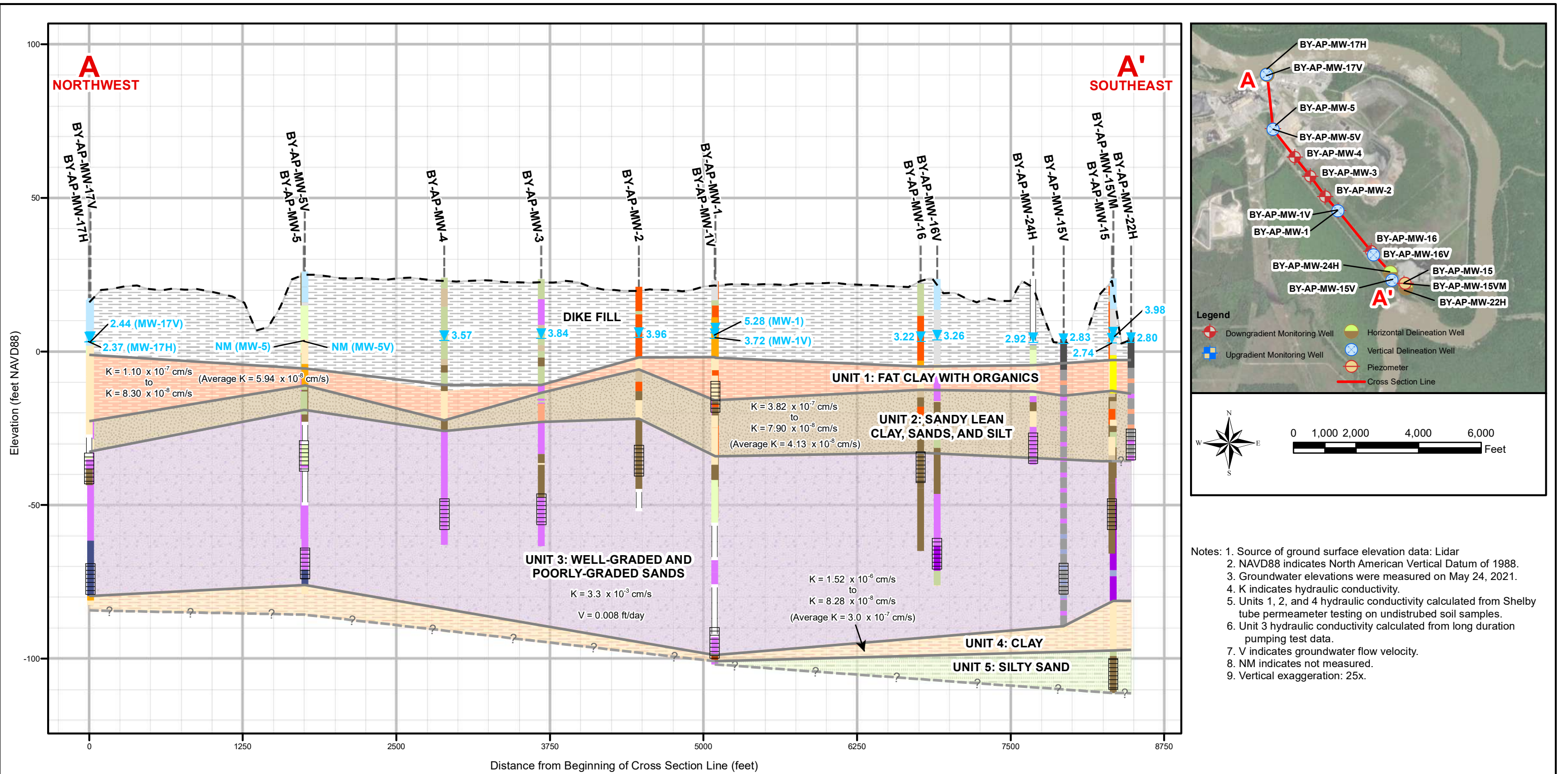
DRAWING TITLE

**SITE GEOLOGIC MAP
PLANT BARRY ASH POND**

FIGURE NO

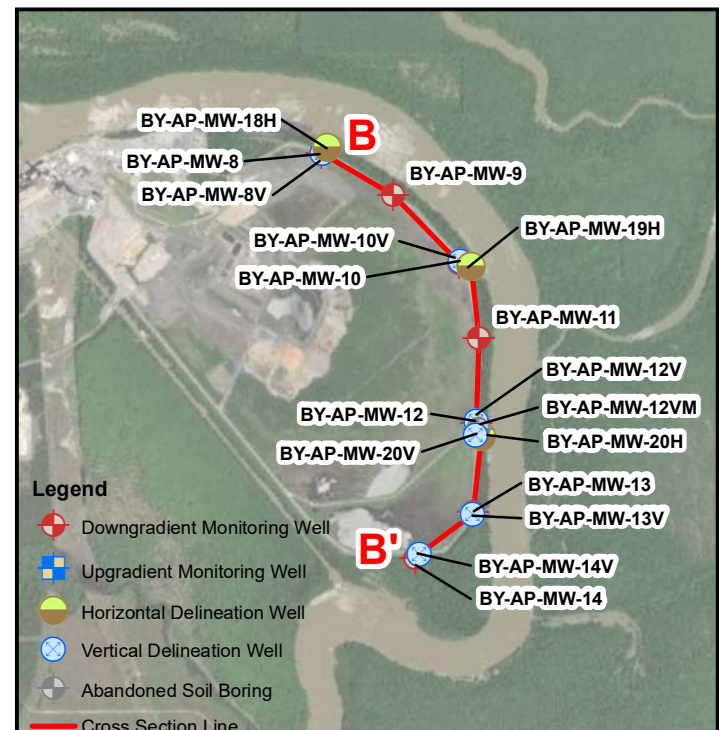
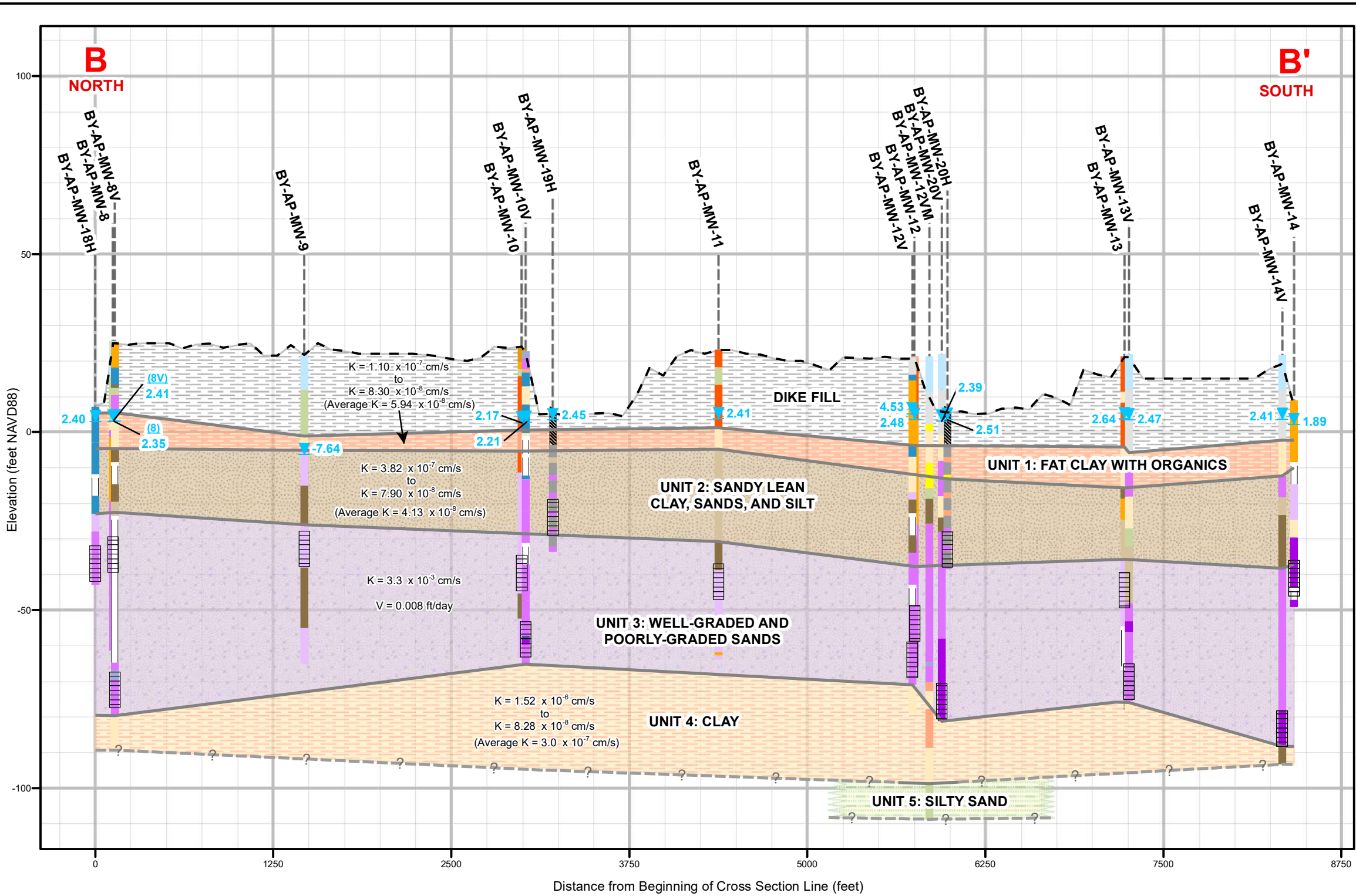
FIGURE 3





- Notes:
1. Source of ground surface elevation data: Lidar
 2. NAVD88 indicates North American Vertical Datum of 1988.
 3. Groundwater elevations were measured on May 24, 2021.
 4. K indicates hydraulic conductivity.
 5. Units 1, 2, and 4 hydraulic conductivity calculated from Shelby tube permeameter testing on undisturbed soil samples.
 6. Unit 3 hydraulic conductivity calculated from long duration pumping test data.
 7. V indicates groundwater flow velocity.
 8. NM indicates not measured.
 9. Vertical exaggeration: 25x.

Legend		Borehole Description		Geologic Unit		SCALE	DRAWING TITLE
Groundwater Elevation	Hydroexcavation	Sandy Fat Clay	Well-graded and Poorly-graded Sands	Fill	Unit 1: Fat Clay with Organics	As Shown	GEOLOGIC CROSS SECTION A - A' PLANT BARRY ASH POND
Well Location	Hand Auger	Sandy Lean Clay	Well-graded Gravelly Sand	Unit 2: Sandy Lean Clay, Sands, and Silt	Unit 3: Well-graded and Poorly-graded Sands	8/1/2021	
Ground Surface Elevation	No Data	Gravelly Fat Clay	Well-graded and Poorly-graded Gravels	Unit 4: Clay	Unit 5: Silty Sand	KWR	
Screen Interval	No Recovery	Silt	Well-graded Gravel with Sand and/or Silt	Unit Boundary (inferred)	Unit Boundary	GBD	FIGURE NO
Unit Boundary (inferred)	Organic Soil	Clayey Sand					FIGURE 4A
Unit Boundary	Fat Clay	Silty Sand					Southern Company

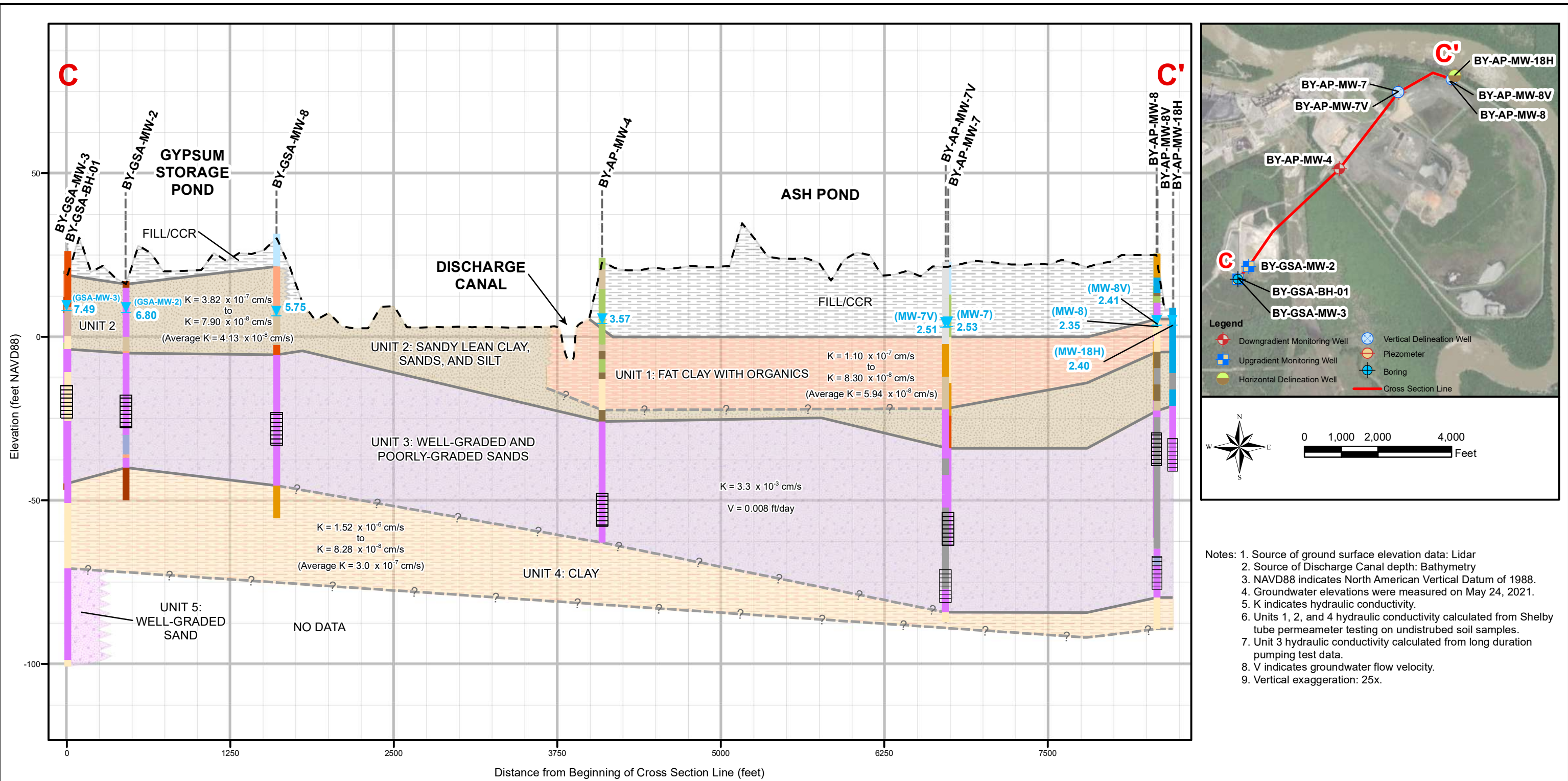


- Notes:**
- Source of ground surface elevation data: Lidar
 - NAVD88 indicates North American Vertical Datum of 1988.
 - Groundwater elevations were measured on May 24, 2021.
 - K indicates hydraulic conductivity.
 - Units 1, 2, and 4 hydraulic conductivity calculated from Shelby tube permeameter testing on undisturbed soil samples.
 - Unit 3 hydraulic conductivity calculated from long duration pumping test data.
 - V indicates groundwater flow velocity.
 - Vertical exaggeration: 25x.

Legend		Borehole Description		Geologic Unit	
Groundwater Elevation	Hydroexcavation	Silty Clay	Well-graded and Poorly-graded Sand with Silt	Fill	Unit 1: Fat Clay with Organics
Well Location	Hand Auger	Sandy Fat Clay	Well-graded Gravelly Sand	Unit 2: Sandy Lean Clay, Sands, and Silt	Unit 3: Well-graded and Poorly-graded Sands
Ground Surface Elevation	No Data	Sandy Lean Clay	Well-graded and Poorly-graded Gravels	Unit 4: Clay	Unit 5: Silty Sand
Screen Interval	No Recovery	Silt	Well-graded Gravel with Sand and/or Silt		
Unit Boundary (inferred)	Fill	Sandy Silt			
Unit Boundary	Fat Clay	Clayey Sandy			
	Lean Clay	Silty Sand			
		Well-graded and Poorly-graded Sand with Silt			

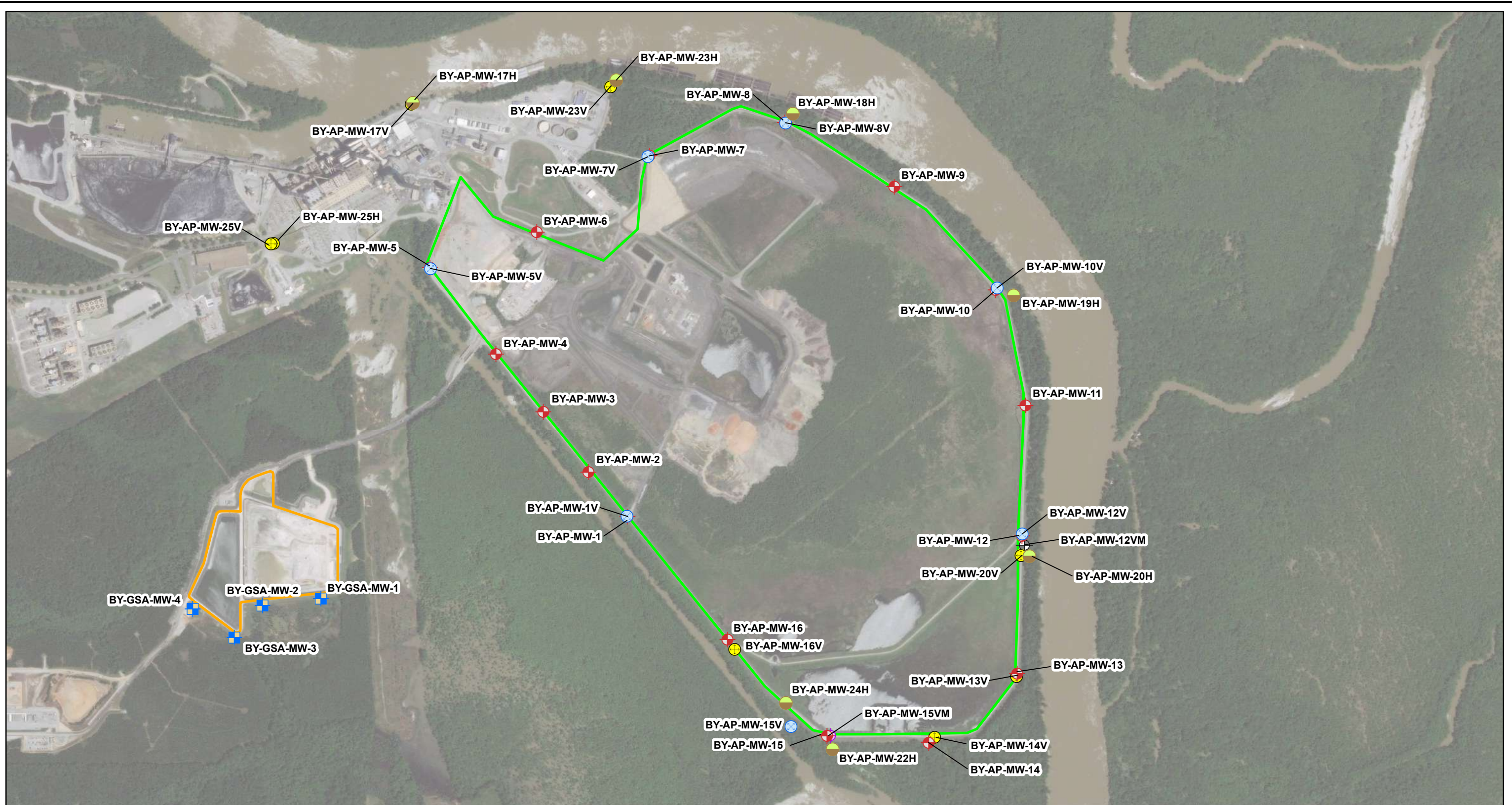
SCALE As Shown	DRAWING TITLE GEOLOGIC CROSS SECTION B - B' PLANT BARRY ASH POND
DATE 8/1/2021	
DRAWN BY KWR	
CHECKED BY GBD	FIGURE NO FIGURE 4B





- Notes:
1. Source of ground surface elevation data: Lidar
 2. Source of Discharge Canal depth: Bathymetry
 3. NAVD88 indicates North American Vertical Datum of 1988.
 4. Groundwater elevations were measured on May 24, 2021.
 5. K indicates hydraulic conductivity.
 6. Units 1, 2, and 4 hydraulic conductivity calculated from Shelby tube permeameter testing on undisturbed soil samples.
 7. Unit 3 hydraulic conductivity calculated from long duration pumping test data.
 8. V indicates groundwater flow velocity.
 9. Vertical exaggeration: 25x.

Legend 	Borehole Description 		Geologic Unit 		SCALE As Shown	DRAWING TITLE GEOLOGIC CROSS SECTION C - C' PLANT BARRY ASH POND
	DATE 8/1/2021		DRAWN BY KWR		FIGURE NO FIGURE 4C	
	CHECKED BY GBD					



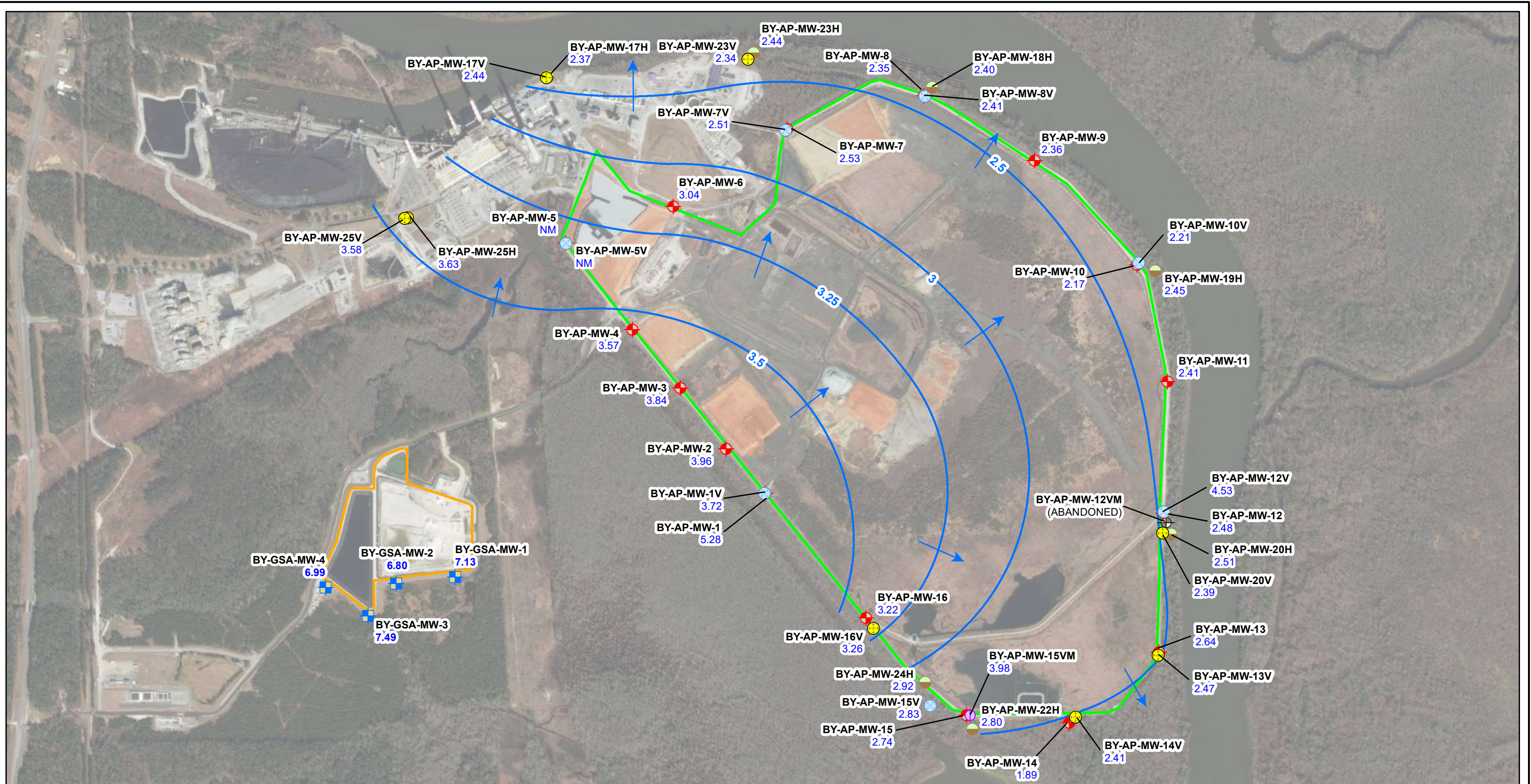
Legend

Downgradient Monitoring Well	Phase II Vertical Delineation Monitoring Well
Upgradient Monitoring Well	Phase II Piezometer (Miocene Series)
Phase I Horizontal Delineation Monitoring Well	Abandoned Soil Boring
Phase I Vertical Delineation Monitoring Well	Ash Pond Boundary
Gypsum Pond Boundary	



SCALE	1:12000
DATE	1/25/2021
DRAWN BY	KWR
CHECKED BY	GFB

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



Legend

- ◆ Downgradient Monitoring Well
- ◆ Upgradient Monitoring Well
- Phase I Horizontal Delineation Well
- Phase II Horizontal Delineation
- Phase I Vertical Delineation Well
- Phase II Vertical Delineation Well
- Phase II Piezometer (Miocene Series)
- ⊕ Abandoned Soil Boring
- Potentiometric Surface Contour (ft NAVD88)
- Approximate Groundwater Flow Direction
- Ash Pond Boundary
- Gypsum Pond Boundary

BY-AP-MW-1 Well ID
5.28 Groundwater Elevation

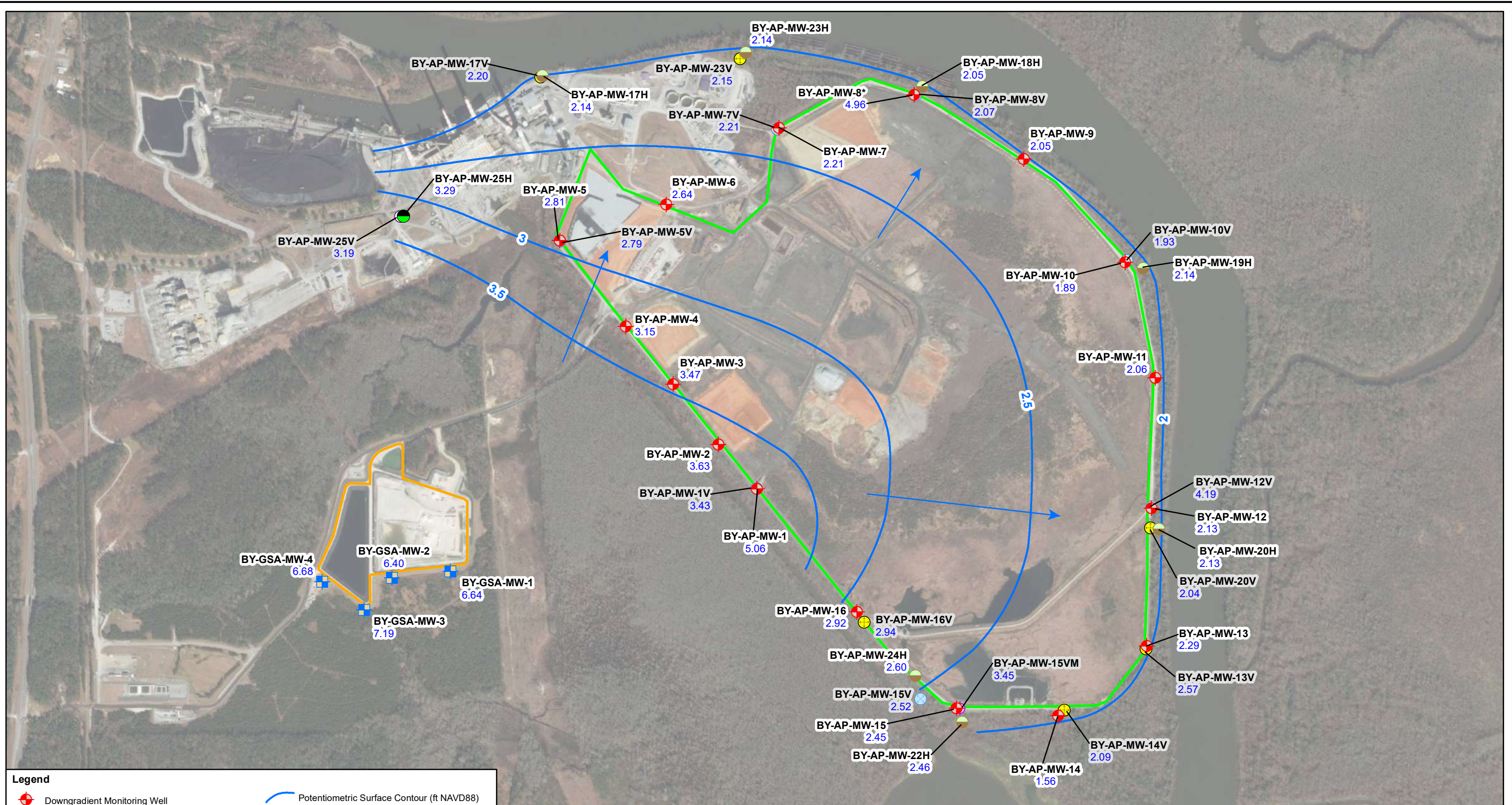


NOTES:

1. NAVD88 indicates North American Vertical Datum of 1988.
2. NM indicates not measured.
3. Groundwater elevations monitored in compliance and horizontal delineation wells can vary slightly based on the screened interval within Unit 3 sands and presence of lower permeability material. Vertical delineation wells were not factored into contouring.
4. Groundwater elevations were not measured in MW-5 or MW-5V due to construction.
5. A previous iteration of this map included a typographic error.

SCALE	1:12000
DATE	1/19/2022
DRAWN BY	KWR
CHECKED BY	GBD

DRAWING TITLE	
POTENTIOMETRIC SURFACE CONTOUR MAP MAY 24, 2021 PLANT BARRY ASH POND	
FIGURE NO	FIGURE 6A



Legend

- Downgradient Monitoring Well
- Upgradient Monitoring Well
- Phase I Horizontal Delineation Well
- Phase I Vertical Delineation Well
- Phase II Horizontal Delineation Well
- Phase II Vertical Delineation Well
- Phase II Vertical Delineation Well (Miocene Series)
- Phase II Piezometer (Miocene Series)

Potentiometric Surface Contour (ft NAVD88)

Approximate Groundwater Flow Direction

Ash Pond Boundary

Gypsum Pond Boundary

BY-AP-MW-1 Well ID
5.02 Groundwater Elevation (ft NAVD88)



NOTES:

1. NAVD88 indicates North American Vertical Datum of 1988.
2. Groundwater elevations monitored in compliance and horizontal delineation wells can vary slightly based on the screened interval within Unit 3 sands and presence of lower permeability material.
3. *Water level in BY-AP-MW-8 was suspect and was excluded from contouring.
4. Vertical delineation wells were not factored into contouring.

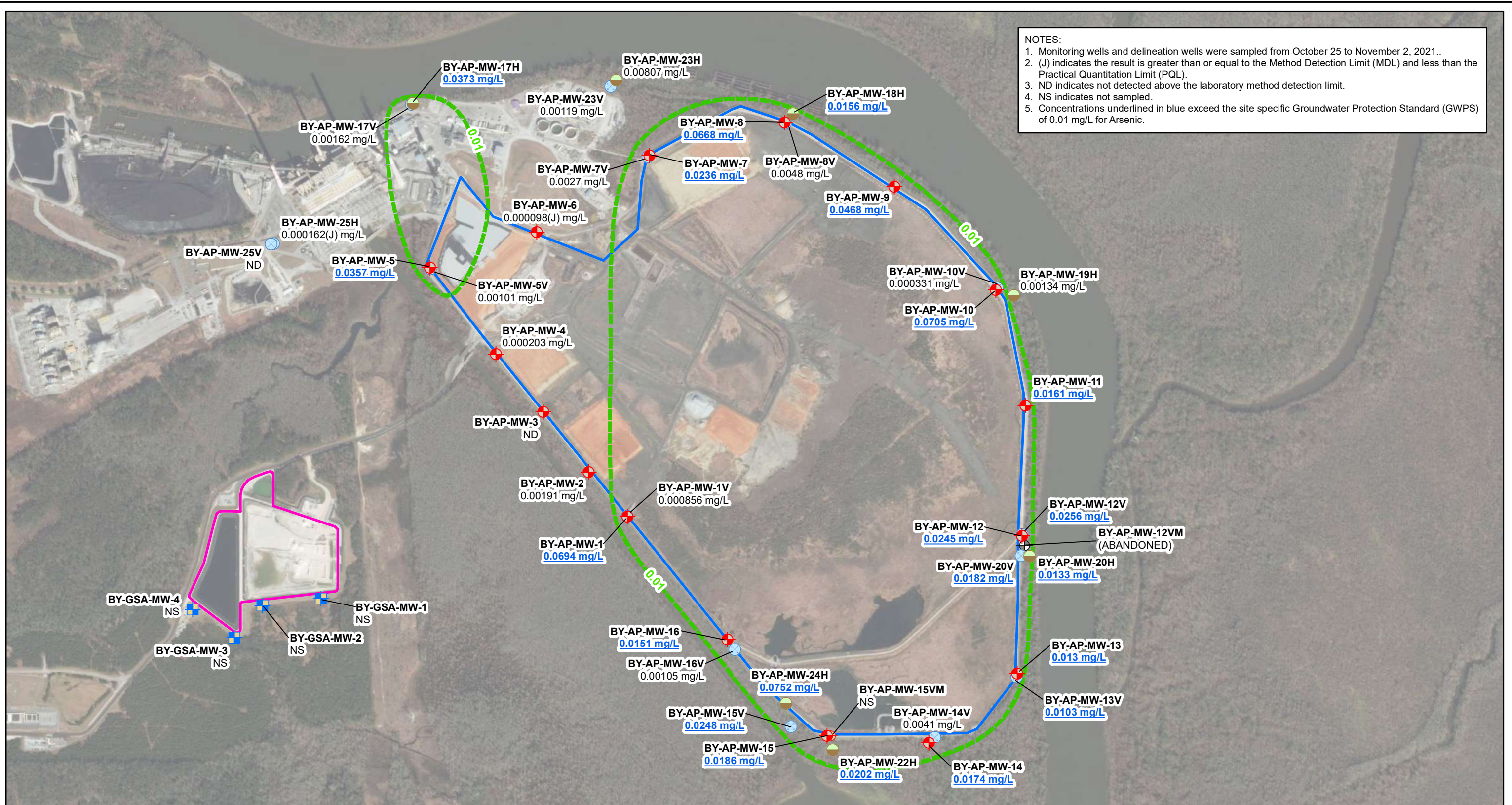
SCALE	1:12000
DATE	1/19/2022
DRAWN BY	KAR
CHECKED BY	GBD

DRAWING TITLE

POTENTIOMETRIC SURFACE CONTOUR MAP
OCTOBER 18, 2021
PLANT BARRY ASH POND

FIGURE NO

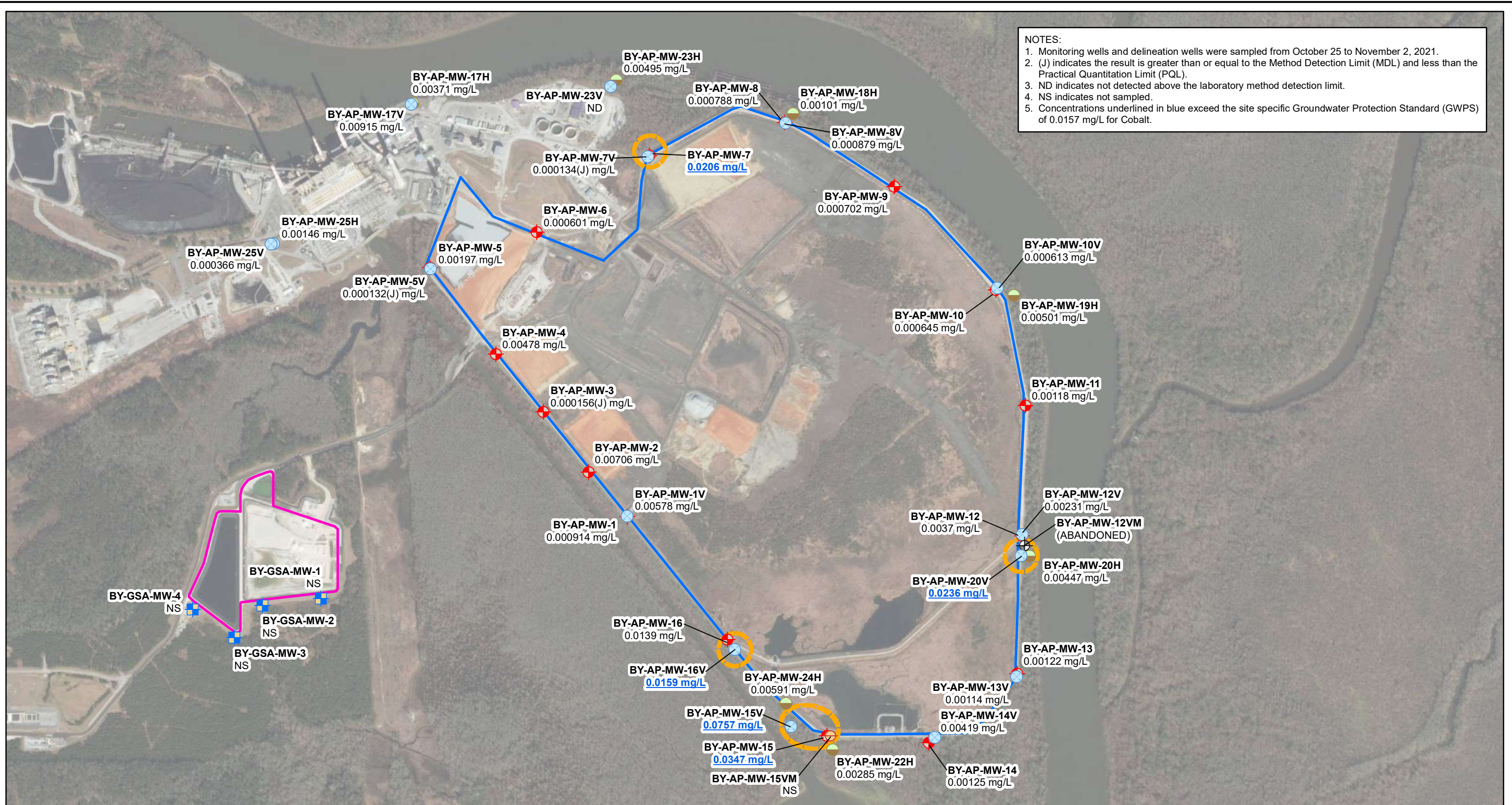
FIGURE 6B



NOTES:

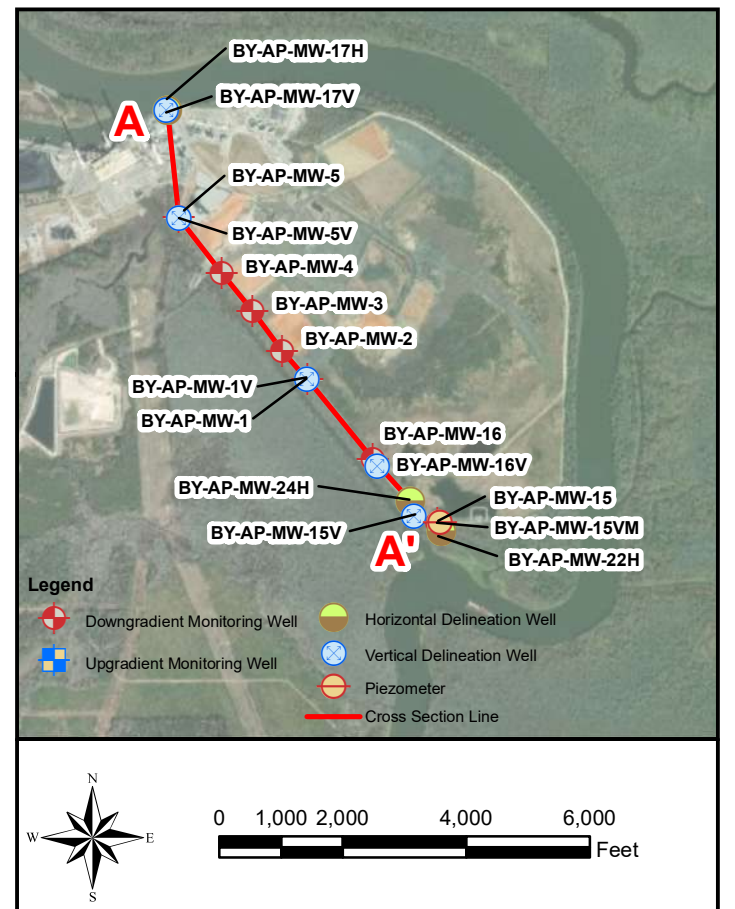
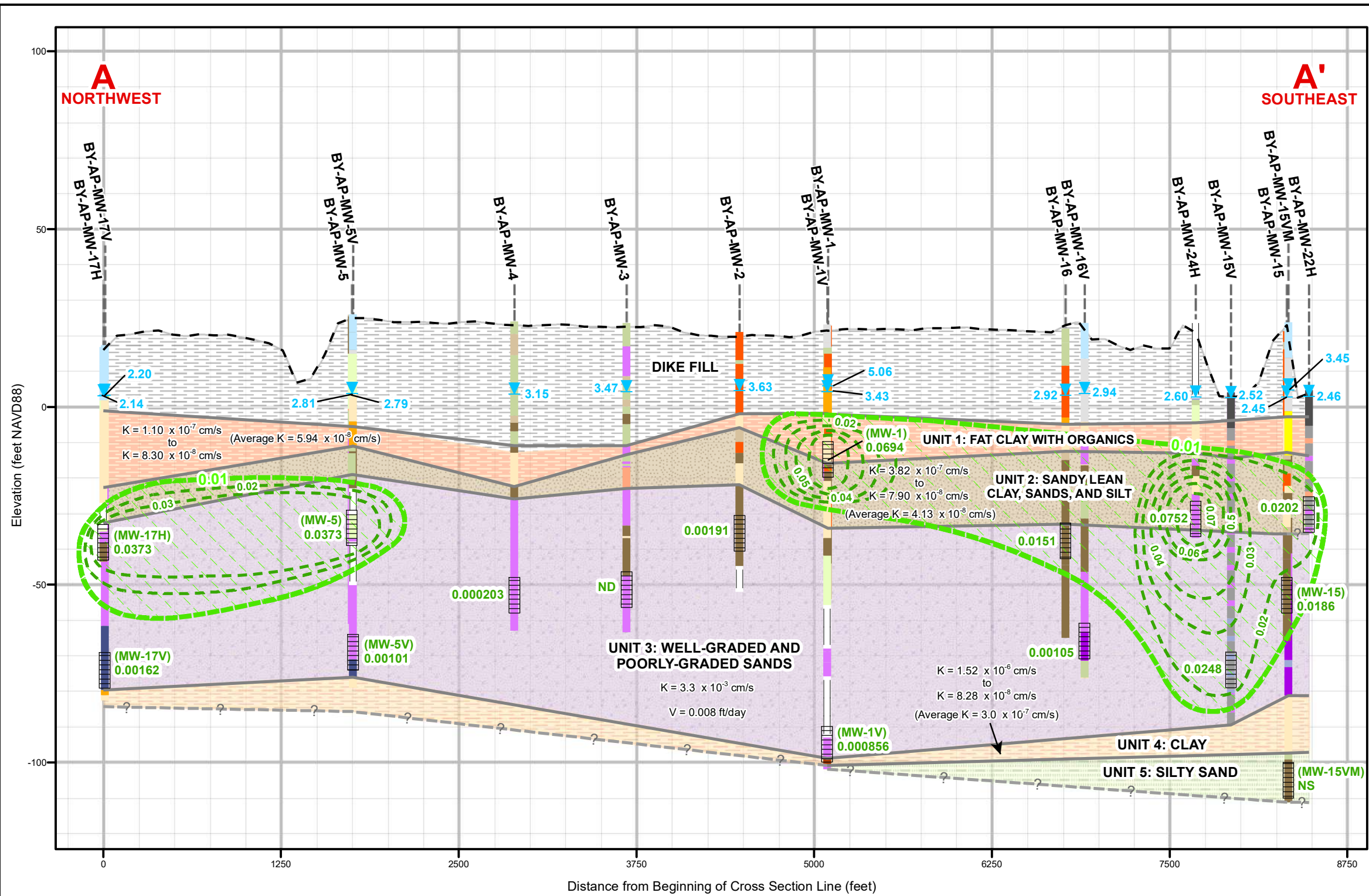
1. Monitoring wells and delineation wells were sampled from October 25 to November 2, 2021..
2. (J) indicates the result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL).
3. ND indicates not detected above the laboratory method detection limit.
4. NS indicates not sampled.
5. Concentrations underlined in blue exceed the site specific Groundwater Protection Standard (GWPS) of 0.01 mg/L for Arsenic.

Legend Arsenic GWPS (mg/L) Ash Pond Boundary Gypsum Pond Boundary Downgradient Monitoring Well Upgradient Monitoring Well Horizontal Delineation Vertical Delineation Well Piezometer Abandoned Soil Boring			SCALE	1:12000	DRAWING TITLE	ARSENIC ISOCONCENTRATION MAP PLANT BARRY ASH POND	
			DATE	1/4/2022			
			DRAWN BY	KAR	FIGURE NO	FIGURE 7A	Southern Company
			CHECKED BY	GFB			



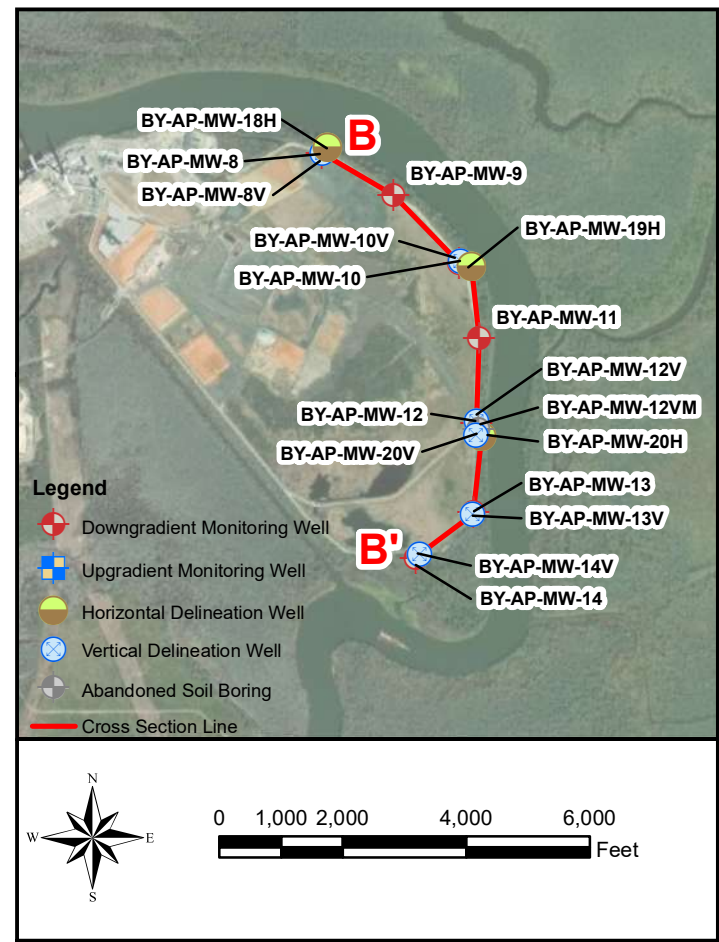
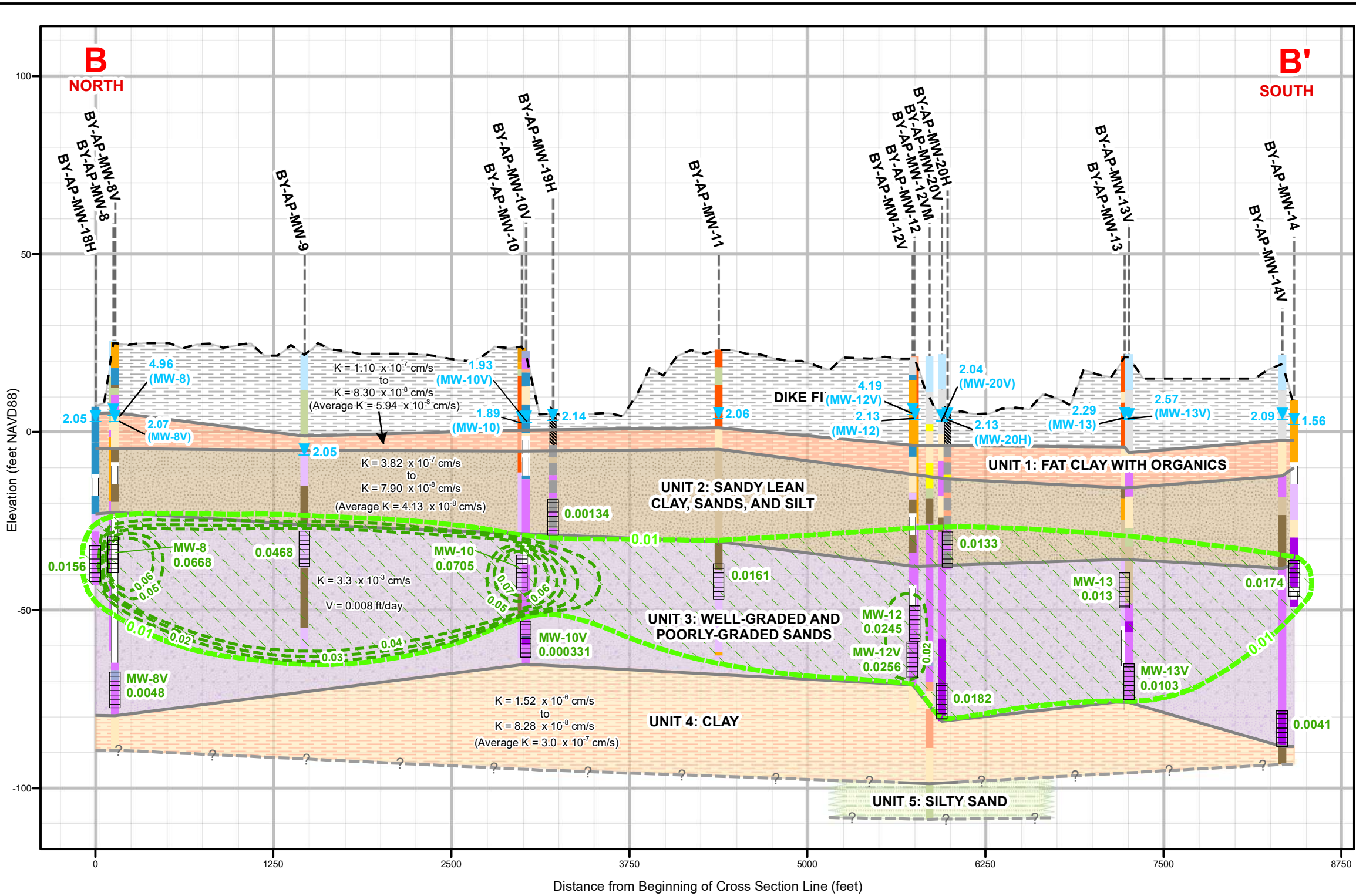
NOTES:
 1. Monitoring wells and delineation wells were sampled from October 25 to November 2, 2021.
 2. (J) indicates the result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL).
 3. ND indicates not detected above the laboratory method detection limit.
 4. NS indicates not sampled.
 5. Concentrations underlined in blue exceed the site specific Groundwater Protection Standard (GWPS) of 0.0157 mg/L for Cobalt.

Legend Cobalt GWPS (mg/L) Ash Pond Boundary Gypsum Pond Boundary Downgradient Monitoring Well Upgradient Monitoring Well Horizontal Delineation Vertical Delineation Well Piezometer Abandoned Soil Boring		 	SCALE 1:12000	DRAWING TITLE COBALT ISOCONCENTRATION MAP PLANT BARRY ASH POND
			DATE 1/4/2022	
			DRAWN BY KAR	FIGURE NO FIGURE 7B
			CHECKED BY GFB	



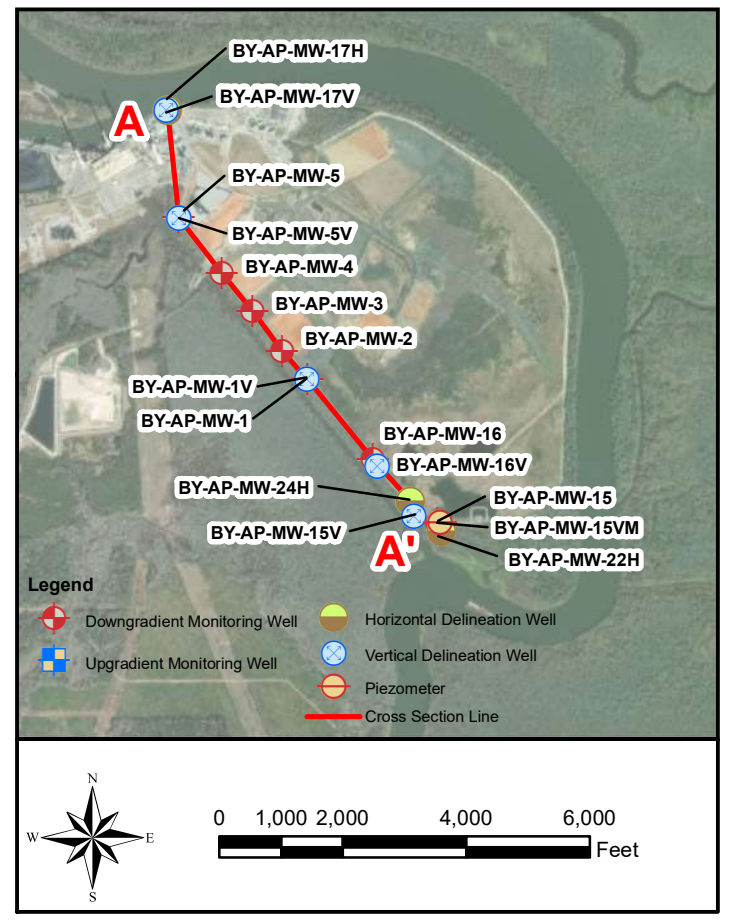
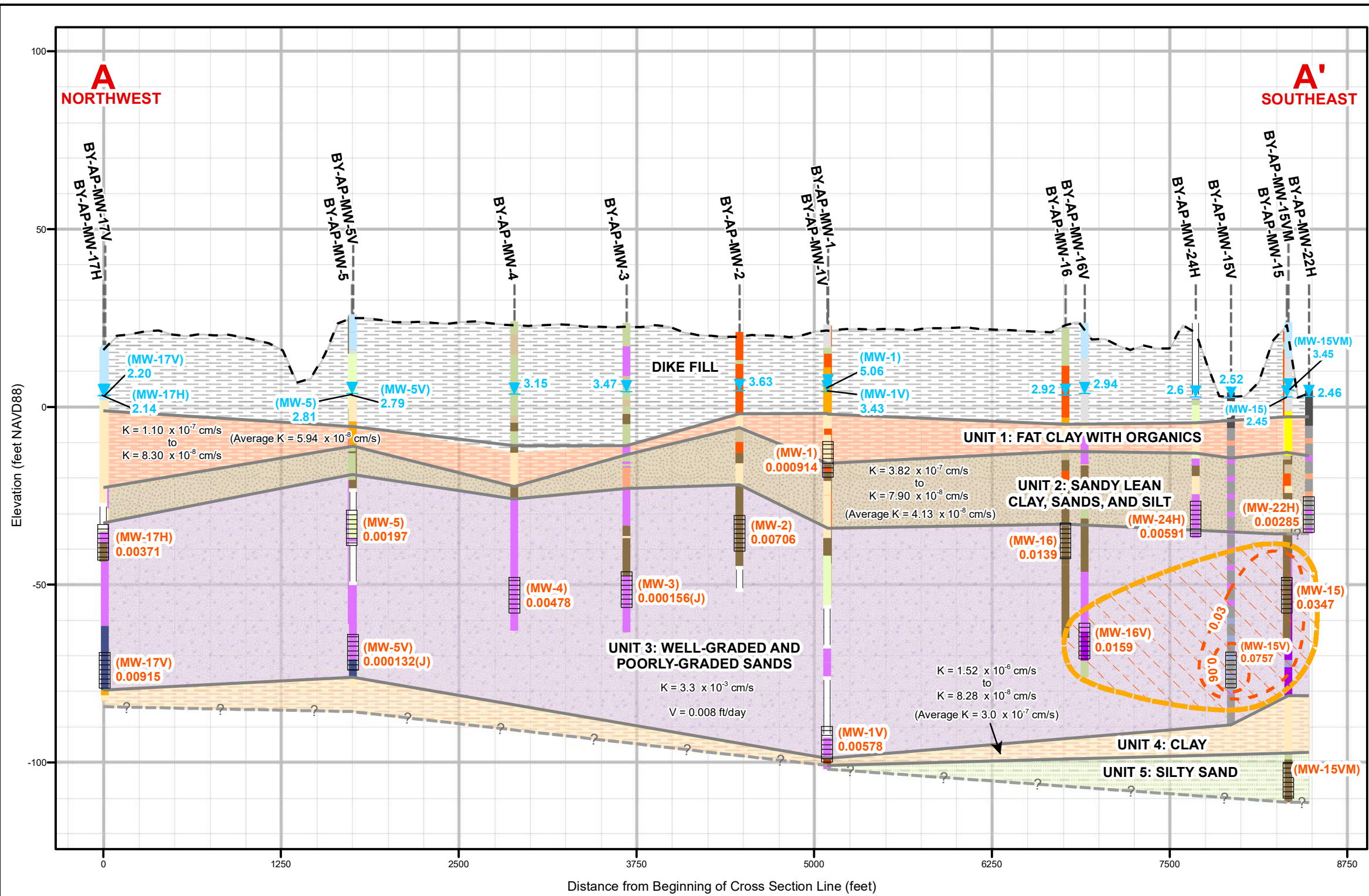
- Notes:
1. Source of ground surface elevation data: Lidar
 2. NAVD88 indicates North American Vertical Datum of 1988.
 3. Groundwater elevations were measured on October 18, 2021.
 4. Water samples were collected between October 25 and November 5, 2021.
 5. mg/L indicates milligrams per liter.
 6. J indicates a laboratory estimated concentration between the analytical method detection limit and the laboratory reporting limit.
 7. ND indicates not detected above the laboratory method detection limit.
 8. NS indicates not sampled.
 9. NM indicates not measured.
 10. GWPS indicates groundwater protection standard.
 11. K indicates hydraulic conductivity.
 12. Units 1, 2, and 4 hydraulic conductivity calculated from Shelby tube permeameter testing on undisturbed soil samples.
 13. Unit 3 hydraulic conductivity calculated from long duration pumping test data.
 14. V indicates groundwater flow velocity.
 15. Vertical exaggeration: 25x.

Legend		Borehole Description		Geologic Unit		SCALE	DRAWING TITLE	
Groundwater Elevation	Arsenic Concentration (mg/L)	Hydroexcavation	Sandy Fat Clay	Well-graded and Poorly-graded Sands	Unit 1: Fat Clay with Organics	As Shown	ARSENIC CONCENTRATIONS ALONG GEOLOGIC CROSS SECTION A - A' PLANT BARRY ASH POND	
Well Location	Arsenic GWPS (mg/L)	Hand Auger	Sandy Lean Clay	Well-graded Gravelly Sand	Unit 2: Sandy Lean Clay, Sands, and Silt	DATE		
Ground Surface Elevation	Area Exceeding GWPS for Arsenic	No Data	Gravelly Fat Clay	Well-graded and Poorly-graded Gravels	Unit 3: Well-graded and Poorly-graded Sands	1/5/2022	DRAWN BY	
Screen Interval	0.01 Arsenic GWPS (mg/L)	No Recovery	Silty	Well-graded Gravelly Sand and/or Silt	Unit 4: Clay	KAR		
Unit Boundary (inferred)	0.0378 Arsenic Concentration (mg/L)	Organic Soil	Sandy Silt	Well-graded Gravelly Sand and/or Silt	Unit 5: Silty Sand	CHECKED BY	FIGURE NO	
Unit Boundary		Fat Clay	Clayey Sand			GBD		
		Lean Clay	Silty Sand				Southern Company	



- Notes:
1. Source of ground surface elevation data: Lidar
 2. NAVD88 indicates North American Vertical Datum of 1988.
 3. Groundwater elevations were measured on October 18, 2021.
 4. Water samples were collected between October 25 and November 5, 2021.
 5. mg/L indicates milligrams per liter.
 6. GWPS indicates groundwater protection standard.
 7. K indicates hydraulic conductivity.
 8. Units 1, 2, and 4 hydraulic conductivity calculated from Shelby tube permeameter testing on undisturbed soil samples.
 9. Unit 3 hydraulic conductivity calculated from long duration pumping test data.
 10. V indicates groundwater flow velocity.
 11. Vertical exaggeration: 25x.

Legend Groundwater Elevation Screen Interval Well Location Ground Surface Elevation Unit Boundary (inferred) Unit Boundary		Borehole Description Silty Clay Sandy Fat Clay Sandy Lean Clay Silt Sandy Silt Clayey Sandy Silty Sand Well-graded and Poorly-graded Sand with Silt		Geologic Unit Fill Unit 1: Fat Clay with Organics Unit 2: Sandy Lean Clay, Sands, and Silt Unit 3: Well-graded and Poorly-graded Sands Unit 4: Clay Unit 5: Silty Sand		SCALE As Shown	DRAWING TITLE ARSENIC CONCENTRATIONS ALONG GEOLOGIC CROSS SECTION B - B' PLANT BARRY ASH POND
Arsenic Concentration (mg/L) Arsenic GWPS (mg/L) Area Exceeding GWPS for Arsenic 0.01 Arsenic GWPS (mg/L) 0.0147 Arsenic Concentration (mg/L)		Hydroexcavation Hand Auger No Data No Recovery Fill Fat Clay Lean Clay		Well-graded and Poorly-graded Sand with Silt Well-graded Gravelly Sand Well-graded and Poorly-graded Gravels Well-graded Gravel with Sand and/or Silt		DATE 1/5/2022	FIGURE NO FIGURE 8B
				DRAWN BY KAR	Southern Company		
				CHECKED BY GBD			

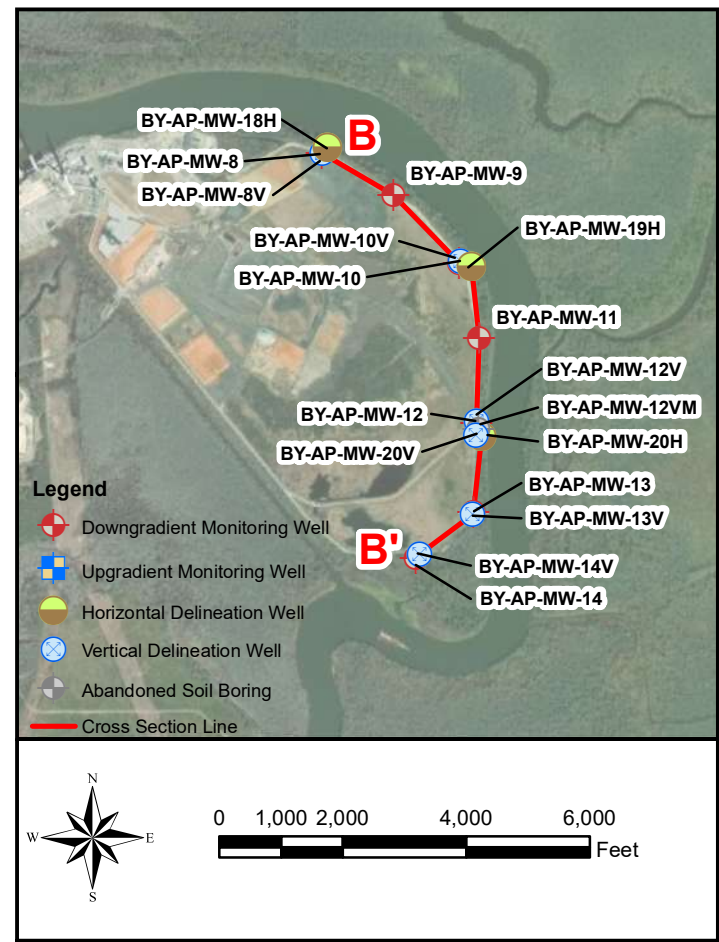
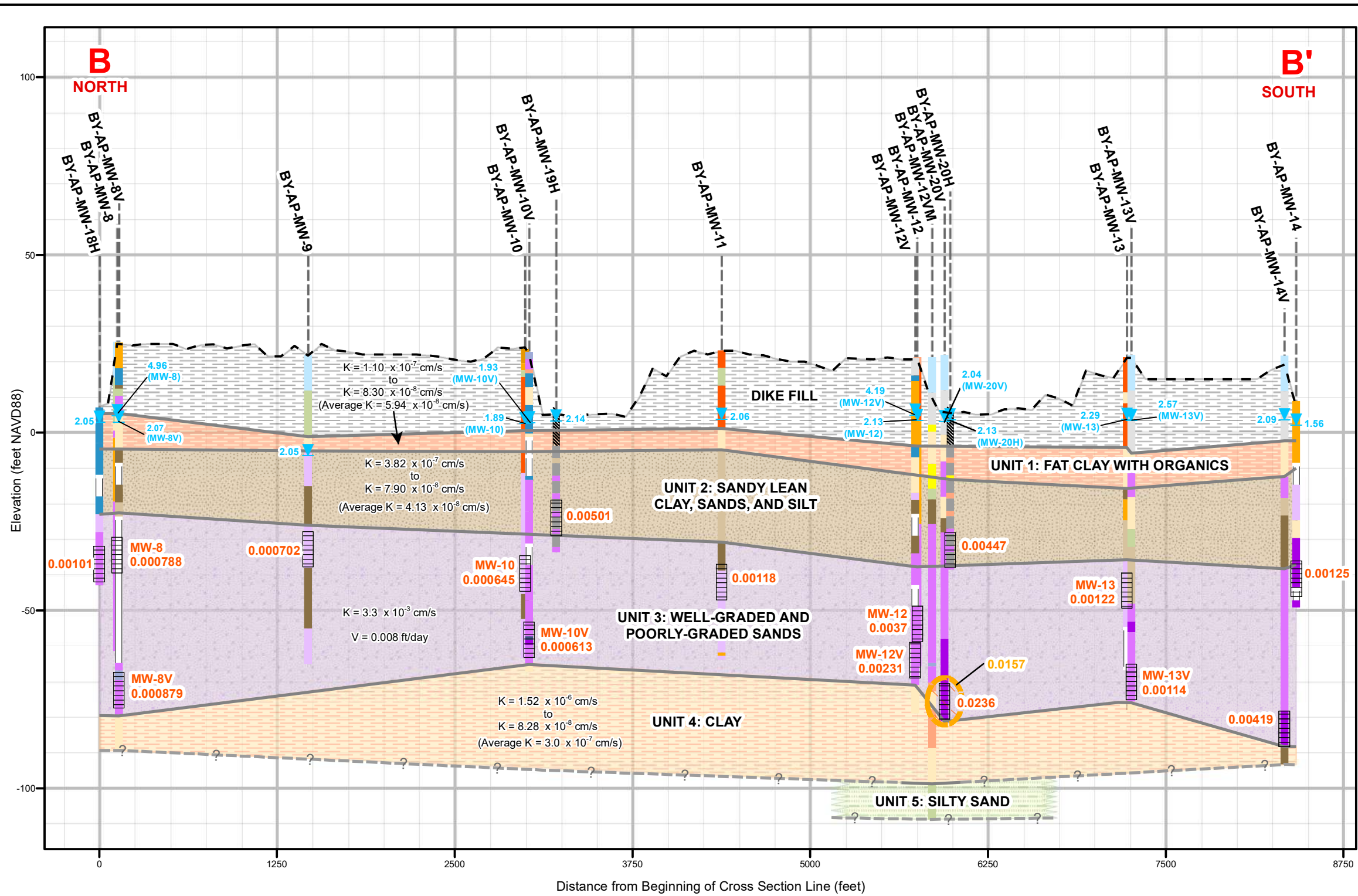


- Notes:
1. Source of ground surface elevation data: Lidar
 2. NAVD88 indicates North American Vertical Datum of 1988.
 3. Groundwater elevations were measured on October 18, 2021.
 4. Water samples were collected between October 25 and November 5, 2021.
 5. mg/L indicates milligrams per liter.
 6. J indicates a laboratory estimated concentration between the analytical method detection limit and the laboratory reporting limit.
 7. ND indicates not detected above the laboratory method detection limit.
 8. NS indicates not sampled.
 9. NM indicates not measured.
 10. GWPS indicates groundwater protection standard.
 11. K indicates hydraulic conductivity.
 12. Units 1, 2, and 4 hydraulic conductivity calculated from Shelby tube permeameter testing on undisturbed soil samples.
 13. Unit 3 hydraulic conductivity calculated from long duration pumping test data.
 14. V indicates groundwater flow velocity.
 15. Vertical exaggeration: 25x.

Legend		Borehole Description		Geologic Unit	
	Groundwater Elevation		Cobalt Concentration (mg/L)		Hydroexcavation
	Well Location		Cobalt GWPS (mg/L)		Hand Auger
	Ground Surface Elevation		Area Exceeding GWPS for Cobalt		No Data
	Screen Interval		0.0197 Cobalt concentration (mg/L)		No Recovery
	Unit Boundary (inferred)		0.00647 Average Cobalt Concentration (mg/L)		Fill
	Unit Boundary		0.0157 Cobalt GWPS (mg/L)		Organic Soil
					Fat Clay
					Lean Clay
					Sandy Fat Clay
					Sandy Lean Clay
					Gravelly Fat Clay
					Silt
					Sandy Silt
					Clayey Sand
					Silty Sand
					Well-graded and Poorly-graded Sands
					Well-graded Gravelly Sand
					Well-graded and Poorly-graded Gravels
					Well-graded Gravel with Sand and/or Silt
					Fill
					Unit 1: Fat Clay with Organics
					Unit 2: Sandy Lean Clay, Sands, and Silt
					Unit 3: Well-graded and Poorly-graded Sands
					Unit 4: Clay
					Unit 5: Silty Sand

SCALE		DRAWING TITLE	
As Shown		COBALT CONCENTRATIONS ALONG GEOLOGIC CROSS SECTION A - A' PLANT BARRY ASH POND	
DATE	1/5/2022		
DRAWN BY	KWR	FIGURE NO	FIGURE 9A
CHECKED BY	GBD		





- Notes:
1. Source of ground surface elevation data: Lidar
 2. NAVD88 indicates North American Vertical Datum of 1988.
 3. Groundwater elevations were measured on October 18, 2021.
 4. Water samples were collected between October 25 and November 5, 2021.
 5. mg/L indicates milligrams per liter.
 6. GWPS indicates groundwater protection standard.
 7. K indicates hydraulic conductivity.
 8. Units 1, 2, and 4 hydraulic conductivity calculated from Shelby tube permeameter testing on undisturbed soil samples.
 9. Unit 3 hydraulic conductivity calculated from long duration pumping test data.
 10. V indicates groundwater flow velocity.
 11. Vertical exaggeration: 25x.

Legend		Borehole Description		Geologic Unit	
Groundwater Elevation	Cobalt GWPS (mg/L)	Hydroexcavation	Silty Clay	Fill	Unit 1: Fat Clay with Organics
Well Location	Area Exceeding GWPS for Cobalt	Hand Auger	Sandy Fat Clay	Unit 2: Sandy Lean Clay, Sands, and Silt	Unit 3: Well-graded and Poorly-graded Sands
Ground Surface Elevation	0.0173 Cobalt concentration (mg/L)	No Data	Silty Sand	Unit 4: Clay	Unit 5: Silty Sand
Screen Interval	0.0157 Cobalt GWPS (mg/L)	No Recovery	Sandy Silt		
Unit Boundary (inferred)		Fill	Clayey Sandy		
Unit Boundary		Fat Clay	Silty Sand		
		Lean Clay	Well-graded and Poorly-graded Sand with Silt		
			Well-graded Gravelly Sand		
			Well-graded and Poorly-graded Gravels		
			Well-graded Gravel with Sand and/or Silt		

SCALE As Shown	DRAWING TITLE COBALT CONCENTRATIONS ALONG GEOLOGIC CROSS SECTION B - B' PLANT BARRY ASH POND
DATE 1/4/2022	
DRAWN BY KWR	
CHECKED BY GBD	FIGURE NO FIGURE 9B



Appendix A



**Appendix A.
Historically Analytical Data
Barry Ash Pond
2016-Present**

Analytes	Wells	BY-AP-MW-1																			
		Date	03/02/2016	04/19/2016	06/08/2016	08/31/2016	10/19/2016	01/31/2017	03/21/2017	05/02/2017	06/06/2017	09/13/2017	01/24/2018	05/01/2018	11/28/2018	05/29/2019	10/01/2019	03/30/2020	09/01/2020	05/18/2021	11/01/2021
Appendix III	Units																				
Boron	mg/L	2.03	2.2	1.61	1.55	1.59	1.84	--	1.73	1.56	1.87	--	1.81	1.8	1.75	1.91	1.77	2.11	1.99	2.02	
Calcium	mg/L	46.5	49	33.5	34.2	35.1	38.5	--	35.1	32.4	40.5	--	39.7	35.8	33.4	36.7	33.7	40.5	39.5	37.7	
Chloride	mg/L	2.18	9.01	21	21	21.4	--	25	26	27	24	--	25	26	27.6	24.6	24.9	25.7	25.1	26.2	
Fluoride	mg/L	0.03 J	0.052 J	0.069 J	0.043 J	<0.01	--	0.04 J	0.05 J	0.049 J	0.06 J	0.05 J	0.05 J	<0.032	0.0858 J	0.0744 J	0.0726 J	0.194	0.0884 J	0.181	
pH_Field	SU	5.78	5.8	5.83	5.85	5.87	5.83	5.83	5.73	5.83	5.91	5.9	5.83	5.82	5.82	5.47	5.79	5.89	5.86	6.01	
Sulfate	mg/L	0.31 J	0.335 J	0.556 J	<0.3	<0.3	--	<1.4	6	<1.4	4.7 J	--	<1.4	4.1 J	5.75	7.82	28.4	23.1	16.5	11.6	
TDS	mg/L	426	442	461	456	444	422	--	442	433	456	--	416	408	403	430	419	454	450	480	
Appendix IV																					
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000687 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	
Arsenic	mg/L	0.076	0.0973	0.0605	0.0687	0.0701	0.0669	--	0.0672	0.0527	--	0.07	0.0777	0.0677	0.0555	0.0635	0.0557	0.0811	0.0687	0.0658	
Barium	mg/L	0.219	0.201	0.274	0.296	0.281	0.211	--	0.29	0.25	--	0.289	0.28	0.271	0.29	0.293	0.279	0.33	0.339	0.313	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	
Chromium	mg/L	0.00591 J	0.0077 J	0.00264 J	0.00246 J	0.00248 J	0.00556 J	--	0.00269 J	0.00295 J	--	0.00278 J	0.00435 J	0.0036 J	0.00223 J	0.00236 J	0.00415 J	0.00242 J	0.00294	0.00244	
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	0.000996	0.000928	
Combined Radium 226 + 228	pCi/L	1 U	3.0268	1.59	2.19	--	1.23	--	1.62	1.24	--	1.96 U	1.6	1.48	2.25	2.84	2.31	1.3	2.99	2.22	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	
Lithium	mg/L	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000106 J	9.01e-005 J	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	

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



**Appendix A.
Historically Analytical Data
Barry Ash Pond
2016-Present**

Analytes	Wells	BY-UP-MW-1																			
		Date	02/23/2016	04/19/2016	06/06/2016	08/30/2016	10/18/2016	01/31/2017	03/20/2017	05/02/2017	06/06/2017	09/13/2017	01/23/2018	05/02/2018	11/27/2018	05/29/2019	10/02/2019	03/31/2020	09/09/2020	05/12/2021	10/19/2021
Appendix III	Units																				
Boron	mg/L	0.0212 J	<0.02	<0.02	<0.02	<0.02	<0.02	--	<0.02	<0.02	<0.02	--	0.0362 J	0.11	0.188	0.097 J	0.157	0.0999 J	0.0841 J	0.0708 J	
Calcium	mg/L	1.28	1.19	1.19	1.11	1.04	1.19	--	1.05	0.978	1.14	--	1.64	2.01	1.85	1.55	1.96	1.43	1.34	1.17	
Chloride	mg/L	3.59	2.89	3.12	3.91	3.9	--	3.5	3.5	3.1	4	--	9.9	4.7	5.48	3.65	3.17	2.92	2.18	2.37	
Fluoride	mg/L	0.03 J	0.023 J	0.062 J	0.053 J	0.042 J	--	<0.032	0.04 J	<0.032	0.04 J	<0.032	0.04 J	<0.032	0.0502 J	<0.05	<0.06	<0.06	<0.06	<0.06	
pH_Field	SU	4.62	4.74	4.65	4.64	4.74	4.54	4.67	4.79	4.76	4.81	4.79	4.62	4.73	4.65	4.57	4.64	4.65	4.74	4.67	
Sulfate	mg/L	8.59	8.27	8.66	9.74	10.2	--	8.3	6.6	7.6	8.4	--	5.9	22	23.3	17.5	24.3	16.5	16.3	15.5	
TDS	mg/L	26.7	--	32.7	33.3	27.3	32	--	31.3	35.3	36.7	--	34	50.7	58	46	53.3	42	40.7	40	
Appendix IV																					
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000925 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000336	0.000346	
Barium	mg/L	0.117	0.099	0.107	0.106	0.102	0.0944	--	0.0868	0.0799	--	0.0884	0.137	0.157	0.166	0.129	0.176	0.124	0.123	0.103	
Beryllium	mg/L	<0.0006	<0.0006	0.000612 J	<0.0006	<0.0006	<0.0006	--	0.00069 J	<0.0006	--	<0.0006	<0.0006	0.000856 J	<0.0006	<0.0006	<0.0006	<0.0006	0.000694 J	<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	
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	0.000296 J	0.000301 J	
Cobalt	mg/L	0.0035 J	0.0038 J	0.00427 J	0.00348 J	0.00338 J	0.00308 J	--	0.00314 J	0.0036 J	--	0.00586 J	0.00702 J	0.0157	0.0109	0.0129	0.0123	0.00697	0.00611	0.00517	
Combined Radium 226 + 228	pCi/L	2.8971 U	1 U	0.841	1.74	1.47	0.952	--	0.768	1.04	--	0.513 U	0.916	1.37	1.57	0.905	1.77	1.77	0.639 U	1.77	
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	9.79e-005 J	0.000115 J	
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	

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



**Appendix A.
Historically Analytical Data
Barry Ash Pond
2016-Present**

Analytes	Wells	BY-AP-MW-2																			
		Date	03/02/2016	04/19/2016	06/08/2016	08/31/2016	10/19/2016	01/31/2017	03/21/2017	05/02/2017	06/06/2017	09/12/2017	01/24/2018	05/01/2018	11/27/2018	05/29/2019	10/01/2019	03/31/2020	08/31/2020	05/18/2021	11/01/2021
Appendix III	Units																				
Boron	mg/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	--	<0.02	<0.02	<0.02	--	<0.02	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	3.86	3.22	3.17	3.07	2.91	2.94	--	2.82	2.79	2.88	--	2.82	2.8	2.82	2.94	2.95	3	3.17	3.13	
Chloride	mg/L	6.08	6.2	6.2	6.51	6.85	--	7.2	8.3	8.5	8.6	--	7.6	8.8	8.31	8.19	8.48	8.3	7.89	8.16	
Fluoride	mg/L	0.04 J	0.038 J	0.067 J	0.05 J	<0.01	--	<0.032	0.04 J	0.04 J	0.037 J	<0.032	<0.032	<0.032	<0.05	<0.05	<0.06	<0.06	<0.06	<0.06	<0.06
pH_Field	SU	6.08	5.92	5.9	5.87	5.82	5.87	5.85	5.61	5.82	5.61	5.83	5.8	5.71	5.7	4.97	5.71	5.57	5.83	5.2	
Sulfate	mg/L	3.3	2.68	1.1	<0.3	<0.3	--	<1.4	5	<1.4	<1.4	--	<1.4	<1.4	0.885 J	<0.5	1.69	0.576 J	<0.5	1.56	
TDS	mg/L	42	51.3	46.7	32.7	37.3	47.3	--	44	48	40.7	--	42.7	48	47.3	44.7	42	45.3	48.7	52	
Appendix IV																					
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000739 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	
Arsenic	mg/L	0.00263 J	0.00247 J	0.0023 J	0.00237 J	0.00241 J	0.00185 J	--	0.00194 J	0.00175 J	--	0.00158 J	0.00166 J	0.00144 J	0.00132 J	0.0014 J	0.00149 J	0.00176 J	0.00159	0.00191	
Barium	mg/L	0.0285	0.0268	0.0248	0.026	0.0247	0.0228	--	0.0257	0.0219	--	0.0229	0.0279	0.0249	0.0232	0.0241	0.0264	0.0275	0.0259	0.0247	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000394 J	0.000288 J	
Cobalt	mg/L	0.00842 J	0.008 J	0.00796 J	0.00752 J	0.00778 J	0.00647 J	--	0.00686 J	0.00694 J	--	0.00592 J	0.00693 J	0.0066	0.00745	0.00696	0.00716	0.00751	0.00746	0.00706	
Combined Radium 226 + 228	pCi/L	1 U	1 U	0.121 U	0.348 U	0.48	0.00333 U	--	0.4 U	0.083 U	--	0.404 U	0.457	0.359 U	1.18	0.284 U	0.699	0.0265 U	0.72 U	0.523 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	
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	

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



**Appendix A.
Historically Analytical Data
Barry Ash Pond
2016-Present**

Analytes	Wells	BY-UP-MW-2																			
		Date	02/23/2016	04/19/2016	06/07/2016	08/30/2016	10/18/2016	01/31/2017	03/20/2017	05/02/2017	06/06/2017	09/13/2017	01/23/2018	05/01/2018	11/27/2018	05/29/2019	10/02/2019	03/31/2020	09/09/2020	05/11/2021	10/19/2021
Appendix III	Units																				
Boron	mg/L	0.0252 J	<0.02	0.0202 J	<0.02	<0.02	<0.02	--	<0.02	<0.02	<0.02	--	<0.02	0.0207 J	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	1.11	1.09	1.16	1.08	1.03	1.23	--	1.28	1.25	1.6	--	1.58	1.49	1.59	1.7	1.43	1.5	1.39	1.32	
Chloride	mg/L	3.99	4.08	4.28	4.26	4.26	--	4.1	5	3.9	4.3	--	3.7	3.2	2.93	2.75	2.72	2.32	2.16	2.08	
Fluoride	mg/L	0.02 J	0.021 J	0.06 J	0.05 J	0.04 J	--	<0.032	0.04 J	0.04 J	0.043 J	0.04 J	0.04 J	<0.032	<0.05	<0.05	<0.06	<0.06	<0.06	<0.06	
pH_Field	SU	4.79	4.84	4.81	4.76	4.84	4.6	4.71	4.8	4.72	4.71	4.67	4.61	4.72	4.58	4.43	4.6	4.67	4.29	4.6	
Sulfate	mg/L	7.2	7.22	7.92	8.17	7.99	--	6.1	5	5.3	4.9 J	--	4.2 J	3.7 J	5.94	6.04	6.83	6.08	7.92	7.48	
TDS	mg/L	30.7	--	35.3	27.3	--	32.7	--	30.7	34.7	39.3	--	42	31.3	40	41.3	40	40.7	35.3	36	
Appendix IV																					
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000898 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000136 J	0.000122 J	
Barium	mg/L	0.111	0.0875	0.0979	0.108	0.103	0.109	--	0.125	0.108	--	0.153	0.167	0.158	0.172	0.183	0.171	0.172	0.165	0.145	
Beryllium	mg/L	<0.0006	<0.0006	0.00093 J	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	0.000801 J	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	0.00596 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.00136	0.00135	
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	0.0021 J	<0.002	0.00209 J	0.00248 J	0.00244 J	0.00224 J	0.00219 J	0.00194	0.00192	
Combined Radium 226 + 228	pCi/L	1 U	1 U	0.652	0.411 U	1	0.398 U	--	0.66	0.639	--	0.669 U	1.06	0.636	0.579 U	1.33	0.814	0.653 U	0.945 U	1.85	
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	0.000118 J	0.0001 J	
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000602 J	<0.000508	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	

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



**Appendix A.
Historically Analytical Data
Barry Ash Pond
2016-Present**

Analytes	Wells	BY-AP-MW-3																			
		Date	03/02/2016	04/19/2016	06/07/2016	08/31/2016	10/19/2016	01/31/2017	03/21/2017	05/02/2017	06/06/2017	09/12/2017	01/24/2018	05/01/2018	11/27/2018	05/29/2019	10/01/2019	03/31/2020	09/01/2020	05/18/2021	11/01/2021
Appendix III	Units																				
Boron	mg/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	--	<0.02	<0.02	<0.02	--	<0.02	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	1.11	1.01	1.06	0.978	0.906	1.04	--	0.969	0.902	0.988	--	1.07	0.999	1.09	1.08	1.1	1.08	1.12	1.09	
Chloride	mg/L	8.04	7.6	7.7	7.7	7.73	--	7.2	8.6	8.3	8.5	--	7.6	8.4	9.01	8.05	9.07	8.97	9.52	9.76	
Fluoride	mg/L	0.01 J	0.014 J	0.049 J	0.034 J	0.023 J	--	<0.032	0.1	<0.032	<0.032	<0.032	<0.032	<0.032	<0.05	<0.05	<0.06	<0.06	<0.06	<0.06	<0.06
pH_Field	SU	5.14	5.06	5.13	5.11	5.05	5.14	5.13	4.85	5.15	4.96	5.22	5.11	5.05	5.05	4.37	5.08	4.24	4.93	4.94	
Sulfate	mg/L	0.79 J	0.674 J	1	0.702 J	0.739 J	--	<1.4	5	<1.4	<1.4	--	<1.4	<1.4	0.747 J	0.61 J	1.02	0.705 J	0.883 J	1.01	
TDS	mg/L	27.3	33.3	44	29.3	29.3	36.7	--	28	36.7	35.3	--	34.7	41.3	40	36.7	37.3	39.3	38	35.3	
Appendix IV																					
Antimony	mg/L	<0.0006	<0.0006	0.000606 J	<0.0006	<0.0006	0.000637 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	
Barium	mg/L	0.0306	0.0292	0.0318	0.0324	0.0313	0.0306	--	0.0332	0.0275	--	0.0317	0.0356	0.0339	0.037	0.0356	0.0393	0.038	0.0406	0.0371	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000919 J	0.000932 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	0.000196 J	0.000156 J	
Combined Radium 226 + 228	pCi/L	1 U	1 U	0.455	0.329 U	0.536	0.496	--	0.149 U	0.191 U	--	0.543 U	0.372 U	0.591	2.31	1.52	0.478 U	0.158 U	0.749 U	0.688 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	
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	

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



**Appendix A.
Historically Analytical Data
Barry Ash Pond
2016-Present**

Analytes	Wells	BY-UP-MW-3																			
		Date	02/23/2016	04/19/2016	06/07/2016	08/30/2016	10/18/2016	01/31/2017	03/20/2017	05/02/2017	06/06/2017	09/13/2017	01/23/2018	05/01/2018	11/27/2018	05/29/2019	10/02/2019	03/31/2020	09/09/2020	05/11/2021	10/18/2021
Appendix III	Units																				
Boron	mg/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	--	<0.02	<0.02	<0.02	--	<0.02	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	1.77	1.68	1.68	1.62	1.53	1.65	--	1.58	1.55	1.71	--	1.76	1.69	1.74	1.86	1.92	1.97	2.06	2.1	
Chloride	mg/L	3.68	3.72	3.66	3.7	3.77	--	3.7	4.6	3.4	3.9	--	4.1	3.5	3.58	3.64	3.47	3.47	3.42	3.41	
Fluoride	mg/L	0.02 J	0.016 J	0.052 J	0.038 J	0.03 J	--	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.05	<0.05	<0.06	<0.06	<0.06	<0.06	<0.06
pH_Field	SU	4.96	4.94	4.96	4.92	4.98	4.74	4.9	4.98	4.94	4.93	4.91	4.87	4.94	4.8	4.52	4.4	4.76	4.53	4.55	
Sulfate	mg/L	7.44	7.66	8.16	8.43	8.47	--	7.4	6.3	7.1	7.3	--	6.9	6.5	7.81	7.62	7.98	7.13	7.73	7.07	
TDS	mg/L	40	32	38.7	31.3	26.7	30	--	30.7	32.7	38	--	35.3	36	37.3	36.7	39.3	42.7	44	54	
Appendix IV																					
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000911 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	
Barium	mg/L	0.0862	0.0718	0.0754	0.0768	0.0727	0.0698	--	0.0723	0.07	--	0.0747	0.0877	0.0804	0.0831	0.089	0.0927	0.0919	0.0981	0.0935	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<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	--	0.00229 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.00146	0.0013	
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	0.00142	0.00156	
Combined Radium 226 + 228	pCi/L	1 U	1 U	0.342 U	0.702	0.791	0.0613 U	--	0.974	0.748	--	0.558 U	0.296 U	0.357 U	0.275 U	0.458 U	0.941	1.05	0.521 U	1.75	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	

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



**Appendix A.
Historically Analytical Data
Barry Ash Pond
2016-Present**

Analytes	Wells	BY-AP-MW-4																			
		Date	03/01/2016	04/19/2016	06/07/2016	08/30/2016	10/19/2016	01/31/2017	03/21/2017	05/02/2017	06/06/2017	09/12/2017	01/24/2018	05/01/2018	11/27/2018	05/29/2019	10/01/2019	03/31/2020	09/01/2020	05/18/2021	11/01/2021
Appendix III	Units																				
Boron	mg/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	--	<0.02	<0.02	<0.02	--	<0.02	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	1.07	0.969	1.08	0.952	1.17	0.946	--	0.826	0.834	0.884	--	0.921	1.01	0.622	0.645	0.898	0.566	0.974	0.816	
Chloride	mg/L	7.74	7.66	11.3	10.8	11.1	--	11	12	12	11	--	9.2	10	8.52	7.35	9.54	7.82	9.53	7.99	
Fluoride	mg/L	0.02 J	0.016 J	0.047 J	0.035 J	0.025 J	--	0.1	0.1	<0.032	<0.032	<0.032	<0.032	<0.032	<0.05	<0.05	<0.06	<0.06	<0.06	<0.06	<0.06
pH_Field	SU	5.19	5.06	4.7	4.77	4.67	4.42	4.45	4.46	4.89	4.71	5.03	4.44	4.78	4.65	4.28	4.69	4.23	4.17	5.18	
Sulfate	mg/L	2.58	2.3	2.58	2.81	5.06	--	3.4 J	2.7 J	1.5 J	1.9 J	--	1.4 J	2.3 J	2.83	2.09	4.12	1.83	4.43	3.34	
TDS	mg/L	27.3	38	48.7	32.7	36	40.7	--	30.7	41.3	34.7	--	39.3	32	36	32	42.7	36	47.3	32	
Appendix IV																					
Antimony	mg/L	<0.0006	<0.0006	0.000869 J	<0.0006	<0.0006	0.00086 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000125 J	0.000203	
Barium	mg/L	0.018	0.0166	0.0271	0.0312	0.0443	0.0231	--	0.0241	0.0276	--	0.0293	0.0205	0.0321	0.0213	0.0207	0.0193	0.0131	0.0225	0.0217	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	0.00071 J	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<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	0.000544 J	0.000668 J	
Cobalt	mg/L	<0.002	<0.002	0.00424 J	0.00262 J	0.00469 J	0.0127	--	0.00891 J	0.00217 J	--	<0.002	0.0126	0.00363 J	0.00576	<0.002	0.0205	0.00657	0.018	0.00478	
Combined Radium 226 + 228	pCi/L	1 U	1 U	0.287 U	0.585	1.85	0.25 U	--	0.391 U	0.183 U	--	0.622 U	0.0917 U	0.695	0.947	0.7	0.323 U	0.39 U	0.734 U	0.888 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	0.00013 J	6.92e-005 J	
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<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	<6.8e-005	<6.8e-005
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	

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



**Appendix A.
Historically Analytical Data
Barry Ash Pond
2016-Present**

Analytes	Wells	BY-UP-MW-4																			
		Date	02/23/2016	04/19/2016	06/06/2016	08/30/2016	10/18/2016	01/31/2017	03/20/2017	05/02/2017	06/06/2017	09/12/2017	01/23/2018	05/01/2018	11/26/2018	05/28/2019	10/02/2019	03/31/2020	09/08/2020	05/11/2021	10/18/2021
Appendix III	Units																				
Boron	mg/L	0.0257 J	<0.02	<0.02	<0.02	0.022 J	<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	1.42	1.31	1.35	1.31	1.22	1.36	--	1.24	1.28	1.47	--	1.47	1.52	1.6	1.7	1.78	1.94	1.93	2.01	
Chloride	mg/L	3.5	3.63	3.6	3.54	3.68	--	4.6	3.9	3.4	4.3	--	3.8	3.6	3.6	3.5	3.34	3.29	3.33	3.32	
Fluoride	mg/L	0.02 J	0.015 J	0.05 J	0.036 J	0.025 J	--	<0.032	0.1	0.1	<0.032	<0.032	<0.032	<0.032	<0.05	<0.05	<0.06	<0.06	<0.06	<0.06	
pH_Field	SU	4.74	4.86	4.88	4.91	4.95	4.71	4.83	4.93	4.9	4.82	4.85	4.8	4.88	4.73	4.67	4.51	4.75	4.67	4.38	
Sulfate	mg/L	7.04	6.74	7.04	7.57	6.62	--	7	5.6	6.6	7.2	--	5.9	5.1	7.1	6.88	10.8	6.52	6.8	6.58	
TDS	mg/L	--	--	28.7	25.3	--	26	--	--	42.7	26.7	--	34.7	32.7	31.3	36	36.7	39.3	46.7	36	
Appendix IV																					
Antimony	mg/L	0.000606 J	<0.0006	<0.0006	<0.0006	<0.0006	0.000928 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	0.0017 J	<0.001	0.000217	0.000193 J	
Barium	mg/L	0.0973	0.0802	0.0862	0.0841	0.0715	0.0825	--	0.0777	0.078	--	0.0825	0.102	0.0994	0.102	0.111	0.129	0.125	0.125	0.124	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.00604 J	<0.002	0.00159	0.00146	
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	0.00137	0.00139	
Combined Radium 226 + 228	pCi/L	2.1138	1 U	0.757	0.992	0.905	1.08	--	1.18	1.1	--	1.32 U	1.19	0.863	0.474 U	0.624 U	1.09	1.27	0.969 U	2.19	
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	0.00126 J	<0.001	0.000159 J	0.00012 J	
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	

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



**Appendix A.
Historically Analytical Data
Barry Ash Pond
2016-Present**

Analytes	Wells	BY-AP-MW-5																		
		Date	03/01/2016	04/20/2016	06/07/2016	08/30/2016	10/18/2016	01/31/2017	03/22/2017	05/03/2017	06/07/2017	09/14/2017	01/24/2018	05/02/2018	11/27/2018	05/29/2019	10/01/2019	03/31/2020	09/01/2020	11/02/2021
Appendix III	Units																			
Boron	mg/L	0.0462 J	0.0719 J	0.0591 J	0.0675 J	0.0699 J	0.0518 J	--	0.0737 J	0.0518 J	0.0825 J	--	0.0603 J	0.0613 J	0.0946 J	0.103	0.0782 J	0.115	0.0755 J	
Calcium	mg/L	15	14.3	14.8	13.7	13.3	13.7	--	14.3	14.7	15.1	--	14.5	13.7	14.5	13.8	14.4	13.6	16.2	
Chloride	mg/L	19.7	18.9	18.5	17.9	18.2	--	22	22	21	21	--	20	21	19.7	19.8	19.8	19.1	21	
Fluoride	mg/L	0.04 J	0.043 J	0.075 J	0.057 J	0.049 J	--	0.04 J	0.05 J	0.05 J	0.06 J	0.05 J	0.05 J	<0.032	0.0923 J	0.0557 J	0.0735 J	0.0921 J	0.0964 J	
pH_Field	SU	5.99	5.96	6.03	6	5.99	5.96	6.01	5.99	6.01	6	5.98	5.99	6.01	5.93	5.47	6.01	5.93	6.36	
Sulfate	mg/L	<0.3	<0.3	0.583 J	<0.3	<0.3	--	<1.4	<1.4	<1.4	<1.4	--	<1.4	2.7 J	5.51	7.4	23.7	11	15	
TDS	mg/L	273	269	272	244	238	266	--	259	255	276	--	247	248	259	243	243	253	297	
Appendix IV																				
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000765 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000508	
Arsenic	mg/L	0.0277	0.0307	0.0308	0.033	0.0296	0.0264	--	0.0309	0.0283	--	0.0282	0.0315	0.0283	0.0301	0.0307	0.0329	0.0372	0.0357	
Barium	mg/L	0.136	0.132	0.141	0.136	0.125	0.125	--	0.146	0.126	--	0.127	0.154	0.139	0.146	0.138	0.15	0.154	0.159	
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	
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	
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	0.00101 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	0.00197	
Combined Radium 226 + 228	pCi/L	1.67764 U	3.0801	1.5	1.17	1.93	1	--	1.48	0.915	--	1.74 U	0.58	1.43	2.16	2.14	0.754	1.1	2.06	
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	
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	
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	
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	0.000124 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	<0.000508	
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	

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



**Appendix A.
Historically Analytical Data
Barry Ash Pond
2016-Present**

Analytes	Wells	BY-AP-MW-6																			
		Date	03/01/2016	04/19/2016	06/07/2016	08/30/2016	10/19/2016	01/31/2017	03/22/2017	05/03/2017	06/07/2017	09/14/2017	01/24/2018	05/02/2018	11/28/2018	05/29/2019	10/01/2019	03/31/2020	09/02/2020	05/17/2021	11/02/2021
Appendix III	Units																				
Boron	mg/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	--	<0.02	<0.02	<0.02	--	<0.02	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	1.87	1.69	1.75	1.77	1.8	1.98	--	1.97	1.98	2.14	--	2.13	1.91	1.72	1.92	1.68	1.8	1.93	1.97	
Chloride	mg/L	5.77	5.57	5.52	5.5	5.55	--	6	6.4	5.9	6.5	--	5.5	6.2	6.15	5.99	5.94	5.94	6.26	6.4	
Fluoride	mg/L	<0.01	0.016 J	0.048 J	0.034 J	0.023 J	--	<0.032	0.1	<0.032	<0.032	<0.032	<0.032	<0.032	<0.05	<0.05	<0.06	<0.06	<0.06	<0.06	<0.06
pH_Field	SU	5.59	5.55	5.43	5.39	5.31	5.26	5.32	5.35	5.32	5.29	5.32	5.33	5.46	5.31	4.7	5.22	5.16	5.21	5.59	
Sulfate	mg/L	0.36 J	0.435 J	1.22	1.08	1.01	--	<1.4	1.4 J	1.5 J	1.8 J	--	<1.4	<1.4	1.17	1.04	1.21	1.02	0.981 J	1.37	
TDS	mg/L	45.3	46	46	30	37.3	43.3	--	44.7	45.3	48.7	--	44	50.7	48.7	38	42	37.3	46.7	38	
Appendix IV																					
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000852 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	
Arsenic	mg/L	0.00142 J	0.00138 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	0.000103 J	9.83e-005 J	
Barium	mg/L	0.0278	0.0242	0.0223	0.0242	0.024	0.0248	--	0.0268	0.0256	--	0.0254	0.0276	0.0231	0.0244	0.0257	0.0244	0.0282	0.0305	0.0286	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	7.34e-005 J	
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000313 J	0.000232 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	0.000678	0.000601	
Combined Radium 226 + 228	pCi/L	1 U	1 U	0.353 U	0.428 U	0.449 U	-0.0173 U	--	0.447	0.572	--	1.09 U	0.187 U	0.478 U	-0.276 U	0.742	0.291 U	0.241 U	1.84	0.773 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	0.00185 J	0.00545	0.00276 J	0.00171 J	0.00162	0.00336	
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000117 J	0.00011 J	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	

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



**Appendix A.
Historically Analytical Data
Barry Ash Pond
2016-Present**

Analytes	Wells	BY-AP-MW-7																			
		Date	03/01/2016	04/20/2016	06/07/2016	08/31/2016	10/19/2016	01/31/2017	03/22/2017	05/03/2017	06/07/2017	09/14/2017	01/24/2018	05/02/2018	11/28/2018	05/29/2019	09/30/2019	03/30/2020	09/02/2020	05/18/2021	10/27/2021
Appendix III	Units																				
Boron	mg/L	0.0546 J	0.0472 J	0.0417 J	0.036 J	0.0386 J	0.0343 J	--	0.037 J	0.0227 J	0.0471 J	--	0.0313 J	0.0311 J	0.042 J	0.0418 J	0.0369 J	0.042 J	0.037 J	0.0427 J	
Calcium	mg/L	7.65	7.54	7.71	8.1	8.59	8.78	--	8.85	8.99	9.64	--	9.14	9.66	8.88	9.8	10.1	10.4	10.2	10	
Chloride	mg/L	11.2	10.8	10.8	10.8	10.8	--	13	14	14	13	--	13	13	13.3	13.1	13.3	12.9	14.2	15.3	
Fluoride	mg/L	0.06 J	0.078 J	0.101 J	0.086 J	0.075 J	--	0.06 J	0.08 J	0.08 J	0.07 J	0.09 J	0.08 J	0.07 J	0.0937 J	0.0925 J	0.0933 J	0.109	0.11	0.0823 J	
pH_Field	SU	6.36	6.31	6.3	6.31	6.23	6.26	6.32	6.29	6.27	6.25	6.35	6.29	6.33	6.18	6.36	6.32	6.25	6.4	6.35	
Sulfate	mg/L	0.3 J	0.514 J	0.971 J	0.445 J	0.366 J	--	<1.4	<1.4	<1.4	<1.4	--	<1.4	<1.4	2.77	2.51	4.78	3.59	4.6	5.17	
TDS	mg/L	129	128	140	112	134	134	--	127	134	141	--	133	138	132	137	135	129	175	123	
Appendix IV																					
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.00107 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	
Arsenic	mg/L	0.0166	0.02	0.0223	0.0231	0.0244	0.0197	--	0.0212	0.0203	--	0.0214	0.0218	0.0209	0.0178	0.0217	0.0215	0.0234	0.0215	0.0236	
Barium	mg/L	0.0519	0.0517	0.0577	0.0614	0.0618	0.0576	--	0.0601	0.054	--	0.0568	0.063	0.0654	0.059	0.0648	0.059	0.0745	0.07	0.0664	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	0.00328 J	<0.002	<0.002	<0.002	<0.002	<0.002	0.00709	0.00309	
Cobalt	mg/L	0.011	0.0148	0.0172	0.0175	0.0189	0.0165	--	0.0172	0.0173	--	0.0158	0.0169	0.0178	0.0197	0.0186	0.0172	0.0197	0.0189	0.0206	
Combined Radium 226 + 228	pCi/L	1 U	1 U	0.555 U	0.284 U	0.557 U	0.0949 U	--	0.53	-0.231 U	--	0.691 U	0.535	0.62	0.244 U	0.388 U	0.744	0.567	0.597 U	1.46 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	
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	0.0108 J	<0.01	<0.01	<0.01	0.0102 J	<0.01	0.0882	<0.007105	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000214	0.000182 J	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	

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



**Appendix A.
Historically Analytical Data
Barry Ash Pond
2016-Present**

Analytes	Wells	BY-AP-MW-8																			
		Date	03/01/2016	04/20/2016	06/07/2016	08/30/2016	10/18/2016	01/31/2017	03/22/2017	05/03/2017	06/07/2017	09/14/2017	01/24/2018	05/02/2018	11/27/2018	05/29/2019	09/30/2019	03/30/2020	09/02/2020	05/11/2021	10/26/2021
Appendix III	Units																				
Boron	mg/L	1.72	1.7	1.57	1.67	1.4	1.46	--	1.45	1.41	1.16	--	1.12	1.31	1.44	1.38	1.12	1.26	0.971	0.933	
Calcium	mg/L	36.1	34.5	34.7	34.1	33.2	32.3	--	34.1	34.7	34.4	--	32.3	32.5	31.9	33	32.2	31.5	33	33.5	
Chloride	mg/L	24.5	22.5	21.6	21.6	20.2	--	24	25	24	24	--	23	27	27.4	25.5	22.6	22.2	21.9	21.7	
Fluoride	mg/L	0.03 J	0.043 J	0.069 J	0.052 J	0.042 J	--	0.1	0.05 J	0.05 J	0.05 J	0.04 J	0.04 J	<0.032	0.0958 J	0.0559 J	0.0701 J	<0.06	0.094 J	<0.06	
pH_Field	SU	6.21	6.22	6.26	6.21	6.21	6.17	6.22	6.22	6.21	6.18	6.16	6.17	6.18	6.11	6.19	6.2	5.89	6.25	6.26	
Sulfate	mg/L	<0.3	<0.3	0.504 J	<0.3	<0.3	--	<1.4	2.7 J	<1.4	<1.4	--	<1.4	<1.4	6.01	5.29	33.1	15.8	35.4	25.7	
TDS	mg/L	309	324	314	308	295	303	--	300	284	325	--	306	303	291	293	310	298	318	332	
Appendix IV																					
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.00074 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	
Arsenic	mg/L	0.036	0.0399	0.0401	0.0387	0.0394	0.0408	--	0.0416	0.0395	--	0.0536	0.0572	0.0536	0.0482	0.0514	0.0589	0.0629	0.0659	0.0668	
Barium	mg/L	0.142	0.143	0.145	0.147	0.14	0.134	--	0.145	0.128	--	0.129	0.149	0.143	0.138	0.138	0.141	0.151	0.147	0.136	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.00156	0.00165	
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	0.000778	0.000788	
Combined Radium 226 + 228	pCi/L	1 U	2.0115 U	0.853	0.669	1.32	0.801	--	0.648	0.408 U	--	0.706 U	0.572	0.687	0.627 U	0.321 U	0.6	3.95	0.648 U	1.61	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000321	0.000193 J	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	

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



**Appendix A.
Historically Analytical Data
Barry Ash Pond
2016-Present**

Analytes	Wells	BY-AP-MW-9																			
		Date	03/01/2016	04/20/2016	06/08/2016	08/31/2016	10/19/2016	02/01/2017	03/22/2017	05/03/2017	06/07/2017	09/14/2017	01/23/2018	05/02/2018	11/28/2018	05/30/2019	09/30/2019	03/31/2020	09/02/2020	05/18/2021	10/27/2021
Appendix III	Units																				
Boron	mg/L	1.79	2.01	2.23	2.14	2.13	2.17	--	2.28	2.25	2.41	--	2.34	2.23	2.44	2.34	2.27	2.05	2.08	2.04	
Calcium	mg/L	40.3	38.2	39.2	38.2	38.7	39.2	--	39.1	40.3	40.7	--	40	39.7	38.3	39.9	40.1	38	40.5	40.3	
Chloride	mg/L	20.4	22.7	25.3	24.4	23	--	26	26	27	24	--	22	23	27.3	21.7	20.6	18.5	18.3	19.1	
Fluoride	mg/L	0.04 J	0.052 J	0.077 J	0.056 J	0.045 J	--	0.05 J	0.06 J	0.06 J	0.07 J	0.06 J	0.05 J	0.04 J	0.0745 J	0.0679 J	0.0655 J	0.0804 J	0.0709 J	0.0803 J	
pH_Field	SU	6.26	6.26	6.25	6.29	6.22	6.24	6.28	6.17	6.24	6.24	6.3	6.31	6.32	6.14	6.07	6.31	5.97	6.3	6.13	
Sulfate	mg/L	<0.3	<0.3	0.51 J	<0.3	<0.3	--	<1.4	2.7 J	<1.4	<1.4	--	<1.4	1.4 J	4.69	3.77	43.5	21.9	27.7	6.33	
TDS	mg/L	314	338	288	334	333	330	--	338	300	350	--	333	330	316	319	330	301	314	302	
Appendix IV																					
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000738 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	
Arsenic	mg/L	0.0322	0.0354	0.0385	0.0404	0.0412	0.0374	--	0.0444	0.0423	--	0.0435	0.0437	0.0422	0.0383	0.0391	0.0393	0.0432	0.0435	0.0468	
Barium	mg/L	0.114	0.114	0.128	0.123	0.118	0.104	--	0.126	0.111	--	0.115	0.125	0.119	0.119	0.117	0.119	0.124	0.125	0.117	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.00078 J	0.00087 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	0.000725	0.000702	
Combined Radium 226 + 228	pCi/L	1.5514 U	1 U	0.837	0.917	1.41	0.785	--	1.33	0.758	--	1.06 U	0.983	0.747	1.08	0.58	0.82	2.25	0.98 U	1.07 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	
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.00022	0.000214	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	

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



**Appendix A.
Historically Analytical Data
Barry Ash Pond
2016-Present**

Analytes	Wells	BY-AP-MW-10																			
		Date	03/01/2016	04/20/2016	06/08/2016	08/31/2016	10/19/2016	02/01/2017	03/22/2017	05/03/2017	06/07/2017	09/14/2017	01/23/2018	05/02/2018	11/28/2018	05/30/2019	09/30/2019	03/31/2020	09/01/2020	05/11/2021	10/27/2021
Appendix III	Units																				
Boron	mg/L	1.39	1.51	1.62	1.73	1.77	1.42	--	1.52	1.52	1.96	--	2	2	2.11	2.02	2.12	2.02	1.99	2.39	
Calcium	mg/L	50.6	49.1	48.7	57.9	52.2	47.6	--	51.3	51.4	54.9	--	53.3	54.2	60.5	63.1	63.6	57.2	62.7	64.2	
Chloride	mg/L	19.6	18.8	18.6	18.5	18.7	--	21	22	22	22	--	23	25	25.9	25.7	26.1	25	27.3	27.2	
Fluoride	mg/L	0.02 J	0.034 J	0.061 J	0.04 J	0.03 J	--	0.1	0.04 J	0.04 J	0.04 J	<0.032	<0.032	<0.032	0.0573 J	<0.05	<0.06	0.0794 J	0.105	<0.06	
pH_Field	SU	6.33	6.31	6.34	6.35	6.35	6.27	6.29	6.23	6.27	6.27	6.32	6.36	6.32	6.23	6.11	6.37	6.33	6.4	5.91	
Sulfate	mg/L	0.34 J	<0.3	0.538 J	<0.3	<0.3	--	<1.4	4.1 J	<1.4	<1.4	--	<1.4	<1.4	3.76	2.77	20.1	15.6	13.2	5.72	
TDS	mg/L	326	366	314	368	381	342	--	369	340	391	--	343	378	377	361	387	392	391	373	
Appendix IV																					
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000743 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	
Arsenic	mg/L	0.0264	0.0303	0.0306	0.0304	0.0314	0.0274	--	0.03	0.0303	--	0.0362	0.0433	0.0536	0.0671	0.0704	0.0702	0.0763	0.0762	0.0705	
Barium	mg/L	0.0634	0.0622	0.0642	0.063	0.0577	0.0607	--	0.0665	0.0632	--	0.0673	0.0752	0.066	0.063	0.0669	0.0727	0.078	0.0757	0.0638	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000685 J	0.000724 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	0.000636	0.000645	
Combined Radium 226 + 228	pCi/L	1 U	1 U	1.06	0.871	1.25	1	--	1.07	0.254 U	--	0.795 U	0.405	0.609	0.0949 U	0.965	1.14	1.68	1.12 U	1.2 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	
Lithium	mg/L	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	

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



**Appendix A.
Historically Analytical Data
Barry Ash Pond
2016-Present**

Analytes	Wells	BY-AP-MW-11																			
		Date	03/01/2016	04/20/2016	06/08/2016	08/31/2016	10/19/2016	02/01/2017	03/22/2017	05/03/2017	06/07/2017	09/13/2017	01/23/2018	05/02/2018	11/28/2018	05/29/2019	09/30/2019	03/31/2020	09/01/2020	05/19/2021	11/02/2021
Appendix III	Units																				
Boron	mg/L	0.0482 J	0.059 J	0.0568 J	0.0651 J	0.06 J	0.0638 J	--	0.0655 J	0.0468 J	0.0751 J	--	0.0545 J	0.0545 J	0.082 J	0.103	0.0815 J	0.104	0.0856 J	0.0691 J	
Calcium	mg/L	35.3	28.9	27.6	25.4	25.7	25.6	--	24	25.2	25.5	--	25.2	24.6	23.9	24.6	25.1	23.9	41.5	25.8	
Chloride	mg/L	21.7	20.7	20.4	20.3	20.3	--	27	27	24	26	--	23	25	27.8	25	24.1	23.2	23.1	25.1	
Fluoride	mg/L	0.06 J	0.073 J	0.085 J	0.064 J	0.05 J	--	0.05 J	0.06 J	0.06 J	0.07 J	0.06 J	0.06 J	0.05 J	0.0759 J	0.0733 J	0.078 J	0.0841 J	0.0994 J	0.101	
pH_Field	SU	6.34	6.31	6.33	6.29	6.26	6.22	6.22	6.15	6.21	6.26	6.28	6.33	6.28	6.24	5.85	6.26	5.87	6.33	5.84	
Sulfate	mg/L	1.02	1.1	0.701 J	<0.3	<0.3	--	2.1 J	3.6 J	<1.4	<1.4	--	<1.4	<1.4	24.1	37.4	57.5	42.8	16.5	133	
TDS	mg/L	395	376	324	367	367	391	--	373	367	378	--	330	357	367	399	393	399	422	390	
Appendix IV																					
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000812 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	
Arsenic	mg/L	0.01	0.0127	0.0136	0.0149	0.0149	0.0151	--	0.0155	0.0145	--	0.0154	0.0158	0.014	0.0132	0.0145	0.0158	0.0165	0.0166	0.0161	
Barium	mg/L	0.122	0.11	0.105	0.102	0.0953	0.0917	--	0.0951	0.0864	--	0.0868	0.0816	0.0796	0.0653	0.0759	0.0842	0.0923	0.112	0.0894	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	
Chromium	mg/L	0.00213 J	0.00214 J	0.00205 J	0.00221 J	0.00213 J	0.00228 J	--	0.00229 J	0.00233 J	--	0.00248 J	0.00273 J	0.0023 J	0.00211 J	0.00228 J	0.00358 J	0.00259 J	0.00301	0.00348	
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	0.00257	0.00118	
Combined Radium 226 + 228	pCi/L	1 U	0.667	0.704	0.726	0.737	0.766	--	0.515	1.04	--	1.17 U	0.505	0.232 U	0.726	0.489 U	0.462 U	0.752	1.15	0.504 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	0.000102 J	0.000126 J	
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	0.0384 J	0.0262	0.0321	0.0228	0.022	<0.01	0.00754 J	<0.007105	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.00652	0.00161	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	

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



**Appendix A.
Historically Analytical Data
Barry Ash Pond
2016-Present**

Analytes	Wells	BY-AP-MW-12																				
		Date	03/02/2016	04/20/2016	06/07/2016	06/08/2016	08/31/2016	10/19/2016	02/01/2017	03/22/2017	05/03/2017	06/07/2017	09/13/2017	01/23/2018	05/02/2018	11/28/2018	05/29/2019	10/01/2019	03/31/2020	09/01/2020	05/18/2021	11/01/2021
Appendix III	Units																					
Boron	mg/L	0.0502 J	0.0672 J	--	0.0659 J	0.065 J	0.0721 J	0.06 J	--	0.0768 J	0.0625 J	0.0926 J	--	0.064 J	0.064 J	0.0952 J	0.0967 J	0.0856 J	0.115	0.0927 J	0.0769 J	
Calcium	mg/L	21	20.1	--	20.2	19.9	20.4	20.9	--	20.9	21.2	22.1	--	22.2	22.1	21.4	23.1	22.4	22.2	23.1	21.8	
Chloride	mg/L	22.2	21.7	--	22	22.3	20.8	--	23	25	23	23	--	21	23	24.1	26.1	23.9	23.4	25.4	27.4	
Fluoride	mg/L	0.04 J	0.059 J	--	0.08 J	0.059 J	0.045 J	--	0.04 J	0.06 J	0.06 J	0.07 J	0.05 J	0.06 J	0.04 J	0.0677 J	0.0682 J	0.0755 J	0.0845 J	0.0614 J	0.0928 J	
pH_Field	SU	6.16	6.17	--	6.25	6.23	6.2	6.08	6.12	6.12	6.13	6.19	6.17	6.15	6.11	6.13	6	6.21	6.19	5.58	5.75	
Sulfate	mg/L	<0.3	<0.3	--	0.511 J	<0.3	<0.3	--	<1.4	2.1 J	<1.4	<1.4	--	<1.4	<1.4	7.04	35.3	35.8	32.1	25.1	27	
TDS	mg/L	351	353	--	330	354	354	360	--	341	337	359	--	310	336	321	344	331	356	332	349	
Appendix IV																						
Antimony	mg/L	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	0.000838 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	
Arsenic	mg/L	0.0215	0.0214	--	0.0221	0.0223	0.0227	0.0215	--	0.0227	0.0211	--	0.0227	0.0239	0.0216	0.0215	0.0221	0.0246	0.0246	0.0237	0.0245	
Barium	mg/L	0.0815	0.0692	--	0.0763	0.0741	0.0727	0.0701	--	0.078	0.0682	--	0.0744	0.0814	0.0788	0.0769	0.0795	0.0851	0.0827	0.0902	0.0823	
Beryllium	mg/L	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	
Chromium	mg/L	0.0042 J	0.0034 J	--	0.00308 J	0.0032 J	0.0035 J	0.00371 J	--	0.00369 J	0.00372 J	--	0.00605 J	0.00351 J	0.00353 J	0.00333 J	0.00325 J	0.0056 J	0.00332 J	0.00377	0.00423	
Cobalt	mg/L	0.00235 J	0.00212 J	--	0.00276 J	0.00261 J	0.00256 J	0.00231 J	--	0.00279 J	0.00262 J	--	0.00248 J	0.00271 J	0.00274 J	0.00358 J	0.00303 J	0.00364 J	0.0031 J	0.00336	0.0037	
Combined Radium 226 + 228	pCi/L	1 U	1 U	1.08	--	0.528	0.81	1.11	--	0.639	0.705	--	1.1 U	1.11	0.846	2.06	0.984	1.26	1.2	1.11	1.79	
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	0.000326	0.000292	
Lithium	mg/L	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	
Mercury	mg/L	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000947	0.000985	
Selenium	mg/L	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	

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



**Appendix A.
Historically Analytical Data
Barry Ash Pond
2016-Present**

Analytes	Wells	BY-AP-MW-13																				
		Date	03/02/2016	04/20/2016	06/07/2016	06/08/2016	08/31/2016	10/19/2016	01/31/2017	03/22/2017	05/03/2017	06/07/2017	09/13/2017	01/22/2018	05/02/2018	11/28/2018	05/29/2019	10/01/2019	03/31/2020	09/01/2020	05/19/2021	10/26/2021
Appendix III	Units																					
Boron	mg/L	0.0328 J	0.0434 J	--	0.0391 J	0.0401 J	0.0427 J	0.034 J	--	0.0416 J	0.0277 J	0.044 J	--	0.0393 J	0.0417 J	0.0528 J	0.0604 J	0.0505 J	0.0642 J	0.0604 J	0.0511 J	
Calcium	mg/L	16.7	13.1	--	11.7	11.3	11.8	12.5	--	12	12.8	13.3	--	13.8	15.2	12.8	13.4	13.2	12.3	12.9	12.3	
Chloride	mg/L	47.3	40.5	--	37.2	38.2	39.4	--	49	48	49	42	--	47	43	44	39	44.9	39.1	46.8	38.4	
Fluoride	mg/L	0.05 J	0.064 J	--	0.082 J	0.062 J	0.049 J	--	0.05 J	0.06 J	0.07 J	0.07 J	0.06 J	0.07 J	0.05 J	0.0679 J	0.0661 J	0.0665 J	0.0757 J	0.0748 J	0.0641 J	
pH_Field	SU	6.1	6.14	--	6.11	6.1	6.1	6.07	6.07	6.1	6.07	6.12	6.12	6.13	6.04	6.01	6.02	5.98	5.82	5.79	5.69	
Sulfate	mg/L	<0.3	<0.3	--	0.496 J	<0.3	<0.3	--	6.9	6.6	6	2.2 J	--	4.1 J	4.9 J	49.5	48.1	23.2	14.2	50.4	21	
TDS	mg/L	319	305	--	287	295	305	325	--	306	320	332	--	320	304	307	296	290	285	300	280	
Appendix IV																						
Antimony	mg/L	<0.0006	<0.0006	--	0.00111 J	<0.0006	<0.0006	0.000834 J	--	<0.0006	0.000857 J	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	
Arsenic	mg/L	0.0115	0.0123	--	0.0121	0.0127	0.0131	0.0131	--	0.014	0.0141	--	0.0149	0.0175	0.0141	0.0138	0.0144	0.0154	0.0148	0.014	0.013	
Barium	mg/L	0.0947	0.0758	--	0.071	0.0722	0.0707	0.0686	--	0.0756	0.0695	--	0.0688	0.0806	0.0697	0.0704	0.0696	0.0728	0.0722	0.0817	0.0667	
Beryllium	mg/L	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	0.00103 J	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	0.00077 J	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	
Chromium	mg/L	0.00656 J	0.00661 J	--	0.0067 J	0.00693 J	0.00732 J	0.00699 J	--	0.00712 J	0.00752 J	--	0.00729 J	0.00642 J	0.0068 J	0.00727 J	0.00733 J	0.00955 J	0.00888 J	0.00692	0.00755	
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	0.00113	0.00122	
Combined Radium 226 + 228	pCi/L	1 U	0.398	0.812	--	0.46 U	0.601	1.1	--	0.832	0.752	--	0.898 U	0.752	0.523	1.01	1.07	0.725	0.698	1.15	1.74	
Lead	mg/L	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	
Lithium	mg/L	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	
Mercury	mg/L	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000437	0.000432	
Selenium	mg/L	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	0.000878 J	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	

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



**Appendix A.
Historically Analytical Data
Barry Ash Pond
2016-Present**

Analytes	Wells	BY-AP-MW-14																			
		Date	03/02/2016	04/20/2016	06/08/2016	08/30/2016	10/18/2016	01/31/2017	03/22/2017	05/02/2017	06/06/2017	09/13/2017	01/23/2018	05/02/2018	11/27/2018	05/29/2019	10/01/2019	03/31/2020	09/02/2020	05/25/2021	10/27/2021
Appendix III	Units																				
Boron	mg/L	0.0395 J	0.0549 J	0.0593 J	0.0534 J	0.0597 J	0.0479 J	--	0.0587 J	0.0428 J	0.0647 J	--	0.0484 J	0.0493 J	0.0682 J	0.0701 J	0.0655 J	0.0789 J	0.074 J	0.0677 J	
Calcium	mg/L	9.53	9.55	13.1	12.1	11.4	10.8	--	11.9	12.2	13.9	--	10.6	10.8	11.2	11.4	9.04	10.8	11.2	11.4	
Chloride	mg/L	36.6	35.5	43.8	41.6	39.5	--	46	42	44	43	--	39	43	50.1	44.8	44.7	47.2	52.1	42.9	
Fluoride	mg/L	0.07 J	0.076 J	0.105 J	0.083 J	0.067 J	--	0.06 J	0.08 J	0.077 J	0.07 J	0.08 J	0.08 J	0.06 J	0.0781 J	0.0885 J	0.0867 J	0.0957 J	0.0957 J	0.0651 J	
pH_Field	SU	6.08	6.04	6.13	6.08	6.13	6.06	6.09	5.94	6.1	6.11	6.12	6.13	6.07	6.07	6.01	5.76	5.8	5.82	6.41	
Sulfate	mg/L	<0.3	<0.3	0.514 J	<0.3	<0.3	--	<1.4	1.8 J	<1.4	<1.4	--	1.6 J	<1.4	67.6	61.6	34.7	18.5	59.2	98.5	
TDS	mg/L	266	311	353	328	310	312	--	300	335	339	--	301	295	318	317	317	327	318	327	
Appendix IV																					
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.00086 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	
Arsenic	mg/L	0.0101	0.0119	0.0119	0.0127	0.0136	0.0124	--	0.0131	0.0129	--	0.0148	0.0156	0.0145	0.014	0.0152	0.0177	0.0174	0.0172	0.0174	
Barium	mg/L	0.0491	0.049	0.0627	0.0635	0.0603	0.0533	--	0.0616	0.0585	--	0.0608	0.0614	0.0589	0.0617	0.0605	0.0619	0.0687	0.0745	0.0651	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	
Chromium	mg/L	0.00552 J	0.00572 J	0.00492 J	0.00534 J	0.00556 J	0.00514 J	--	0.00524 J	0.00541 J	--	0.00573 J	0.00534 J	0.00523 J	0.00455 J	0.00508 J	0.00463 J	0.00482 J	0.00365	0.00401	
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	0.00124	0.00125	
Combined Radium 226 + 228	pCi/L	1 U	1 U	0.631	0.693	0.626	0.0723 U	--	0.363 U	0.198 U	--	0.294 U	0.522	0.576	0.437 U	1.11	0.941	2.12	0.978 U	0.587 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	7.64e-005 J	8.69e-005 J	
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000701	0.00053	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	

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



**Appendix A.
Historically Analytical Data
Barry Ash Pond
2016-Present**

Analytes	Wells	BY-AP-MW-15																			
		Date	03/02/2016	04/19/2016	06/08/2016	08/31/2016	10/19/2016	01/31/2017	03/21/2017	05/02/2017	06/06/2017	09/13/2017	01/22/2018	05/01/2018	11/27/2018	05/29/2019	10/01/2019	04/01/2020	09/02/2020	05/11/2021	10/26/2021
Appendix III	Units																				
Boron	mg/L	0.0447 J	0.0645 J	0.0592 J	0.0632 J	0.0637 J	0.0536 J	--	0.0775 J	0.0535 J	0.0937 J	--	0.0683 J	0.0715 J	0.116	0.116	0.1	0.148	0.109	0.0953 J	
Calcium	mg/L	6.61	5.97	6.36	6.28	6.57	6.77	--	6.94	6.88	7.43	--	7.42	7.58	7.22	6.9	7.32	7.04	6.98	6.46	
Chloride	mg/L	20.9	19.8	24	28	21.3	--	34	33	35	36	--	42	43	47.2	56.3	54.7	47	80	85.4	
Fluoride	mg/L	0.18 J	0.21 J	0.223 J	0.196 J	0.166 J	--	0.18	0.18	0.18	0.2	0.19	0.19	0.18	0.168	0.185	0.187	0.18	0.214	0.171	
pH_Field	SU	6.61	6.75	6.63	6.71	6.66	6.73	6.62	6.49	6.7	6.66	6.73	6.62	6.58	6.63	6.2	6.72	6.57	6.76	6.7	
Sulfate	mg/L	<0.3	<0.3	0.489 J	<0.3	<0.3	--	<1.4	5	<1.4	<1.4	--	<1.4	<1.4	3.27	1.72	7.5	7.61	7.54	26.4	
TDS	mg/L	182	151	168	188	180	166	--	183	187	202	--	197	190	198	236	231	208	279	269	
Appendix IV																					
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000746 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	
Arsenic	mg/L	0.0128	0.0157	0.0168	0.0168	0.0178	0.0164	--	0.0172	0.0158	--	0.0173	0.0181	0.0158	0.0148	0.017	0.0183	0.0206	0.0184	0.0186	
Barium	mg/L	0.0468	0.043	0.0465	0.0464	0.0481	0.0427	--	0.0473	0.0437	--	0.0501	0.0575	0.0557	0.0562	0.0628	0.0697	0.0736	0.0762	0.0784	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<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	0.000581 J	0.00052 J	
Cobalt	mg/L	0.0279	0.0269	0.0293	0.0272	0.0285	0.025	--	0.0274	0.0285	--	0.0273	0.0298	0.0311	0.0343	0.0336	0.0344	0.0385	0.0349	0.0347	
Combined Radium 226 + 228	pCi/L	1 U	1 U	0.557	0.765	0.654	0.402 U	--	0.578	0.128 U	--	0.768 U	0.651	0.764	0.433	0.988	0.527	1.87	0.684 U	1.95	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	0.0169 J	0.0254	0.0248	0.0174 J	<0.01	0.00788 J	0.0117 J	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	0.00238 J	0.00203 J	<0.002	<0.002	<0.002	<0.002	--	0.00201 J	<0.002	--	0.00211 J	<0.002	<0.002	<0.002	<0.002	<0.002	0.00209 J	0.00171	0.00206	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	

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



**Appendix A.
Historically Analytical Data
Barry Ash Pond
2016-Present**

Analytes	Wells	BY-AP-MW-16																			
		Date	03/02/2016	04/19/2016	06/08/2016	08/31/2016	10/19/2016	01/31/2017	03/21/2017	05/02/2017	06/06/2017	09/13/2017	01/23/2018	05/01/2018	11/27/2018	05/29/2019	10/01/2019	03/31/2020	09/02/2020	05/19/2021	11/01/2021
Appendix III	Units																				
Boron	mg/L	1.47	1.53	1.7	1.68	1.53	1.51	--	1.64	1.57	2.18	--	1.57	1.58	1.7	2.05	1.74	1.9	1.74	2.18	
Calcium	mg/L	14.6	13.3	13.2	11.8	12.9	13.5	--	13.5	13.6	11.8	--	14	13.3	13.4	11.7	14.2	13.1	14.2	13.4	
Chloride	mg/L	16.6	15.7	15.1	15.9	15.3	--	19	19	19	21	--	18	20	20	20.3	20.8	20.8	21.4	22.3	
Fluoride	mg/L	0.04 J	0.05 J	0.073 J	0.051 J	<0.01	--	0.04 J	0.05 J	0.053 J	0.06 J	0.05 J	0.05 J	<0.032	0.0683 J	0.0774 J	0.0602 J	<0.06	0.0793 J	0.0887 J	
pH_Field	SU	5.79	5.78	5.8	5.83	5.81	5.84	5.79	5.68	5.8	5.86	5.86	5.85	5.76	5.76	5.23	5.75	5.47	5.8	5.36	
Sulfate	mg/L	<0.3	<0.3	0.514 J	<0.3	<0.3	--	<1.4	5	<1.4	2.6 J	--	<1.4	<1.4	6.72	3.4	17.5	13.3	3.11	11.9	
TDS	mg/L	263	259	285	279	264	270	--	259	278	333	--	274	250	264	295	276	279	274	324	
Appendix IV																					
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000769 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	
Arsenic	mg/L	0.0102	0.0103	0.0105	0.0117	0.0108	0.0102	--	0.0102	0.00982	--	0.0151	0.0114	0.0108	0.0106	0.0138	0.012	0.0137	0.0118	0.0151	
Barium	mg/L	0.0921	0.0775	0.0798	0.0801	0.0766	0.075	--	0.0761	0.07	--	0.0779	0.0877	0.0792	0.081	0.0803	0.091	0.0954	0.102	0.0988	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	
Chromium	mg/L	<0.002	<0.002	<0.002	0.00215 J	<0.002	<0.002	--	<0.002	<0.002	--	0.00253 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.00162	0.0018	
Cobalt	mg/L	0.0212	0.018	0.0176	0.0134	0.0193	0.017	--	0.0166	0.0172	--	0.00621 J	0.0189	0.0182	0.0206	0.0107	0.0199	0.0192	0.0182	0.0139	
Combined Radium 226 + 228	pCi/L	1 U	1 U	0.344 U	0.582	0.448	0.653	--	0.698	0.548	--	0.98 U	0.623	0.744	2.51	0.443 U	0.341 U	2.25	0.321 U	1.28	
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	0.000191 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	<0.007105	<0.007105	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000136 J	<6.8e-005	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	

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



**Appendix A.
Historically Analytical Data
Barry Ash Pond
2016-Present**

Analytes	Wells	BY-AP-MW-1V						BY-AP-MW-5V					BY-AP-MW-7V							
		Date	01/08/2019	10/02/2019	03/30/2020	09/01/2020	05/18/2021	11/01/2021	01/08/2019	10/02/2019	03/31/2020	09/01/2020	11/02/2021	01/09/2019	10/01/2019	12/02/2019	03/30/2020	09/02/2020	05/18/2021	10/27/2021
Appendix III	Units																			
Boron	mg/L	0.0205 J	<0.03	0.0347 J	0.0368 J	0.0334 J	<0.03	0.029 J	0.0336 J	0.0339 J	0.0414 J	<0.03	0.0615 J	0.0546 J	--	0.0555 J	0.0565 J	0.0599 J	0.0546 J	
Calcium	mg/L	15.7	3.16	3.23	3.43	3.79	3.68	3.7	2.43	1.88	2.13	2.11	37	18.7	--	20	13.9	14.1	17.2	
Chloride	mg/L	42	60.7	69.1	69	79.5	79.4	20.9	25.8	25.8	30.6	30.5	16.9	13.2	--	15.5	14.2	19	18.9	
Fluoride	mg/L	0.0548 J	0.0595 J	<0.06	<0.06	<0.06	<0.06	<0.05	0.0777 J	<0.06	0.0807 J	0.0627 J	0.139	0.0871 J	--	0.127	0.126	0.112	0.0795 J	
pH_Field	SU	6.38	5.27	5.65	5.62	5.55	5.76	6.07	5.9	6.05	5.7	6.35	7.12	6.67	6.56	6.69	6.49	6.53	6.78	
Sulfate	mg/L	20.9	10.5	11.1	13	16	20.2	1.75	5.8	0.98 J	1.47	1.34	3.69	2	--	9.65	6.7	5.53	5.31	
TDS	mg/L	192	154	160	175	189	190	76.7	98	81.3	94	77.3	240	182	--	204	168	192	169	
Appendix IV																				
Antimony	mg/L	0.00125 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	0.00207 J	<0.0008	<0.0008	<0.0008	<0.000508	0.000861 J	<0.0008	--	<0.0008	<0.0008	<0.000507	<0.000508	
Arsenic	mg/L	0.00109 J	0.00157 J	0.00152 J	0.00179 J	0.00144	0.000856	<0.001	<0.001	<0.001	<0.001	0.00101	<0.001	0.00278 J	--	0.005	0.0024 J	0.00242	0.0027	
Barium	mg/L	0.0826	0.0611	0.062	0.0795	0.0861	0.0731	0.0372	0.0338	0.0313	0.0399	0.0368	0.112	0.0541	--	0.0519	0.0648	0.0805	0.0684	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<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	0.000447 J	0.000454 J	<0.002	<0.002	<0.002	<0.002	0.000991 J	<0.002	<0.002	--	<0.002	<0.002	0.000463 J	0.000515 J	
Cobalt	mg/L	0.00911	0.00289 J	<0.002	0.00407 J	0.00483	0.00578	<0.002	<0.002	<0.002	<0.002	0.000132 J	<0.002	<0.002	--	<0.002	<0.002	0.000139 J	0.000134 J	
Combined Radium 226 + 228	pCi/L	1.06	1.03	0.579	0.948	0.814 U	1.3 U	0.298 U	0.206 U	0.024 U	0.741	0.158 U	0.527	1.01	--	0.604	1.12	0.199 U	0.914 U	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<0.001	<0.001	--	<0.001	<0.001	<6.8e-005	<6.8e-005	
Lithium	mg/L	0.0219	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.01	<0.01	<0.01	<0.01	<0.007105	0.0662	<0.01	<0.01	<0.01	<0.01	<0.007105	0.00746 J	
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	
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	0.00018 J	0.00013 J	<0.002	<0.002	<0.002	<0.002	8.05e-005 J	0.00511 J	<0.002	--	<0.002	<0.002	0.00021	0.000456	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.000508	<0.002	<0.002	--	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<0.0002	<0.0002	--	<0.0002	<0.0002	<6.8e-005	<6.8e-005	

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



**Appendix A.
Historically Analytical Data
Barry Ash Pond
2016-Present**

Analytes	Wells	BY-AP-MW-8V						BY-AP-MW-10V						BY-AP-MW-12V						
		Date	01/09/2019	10/01/2019	03/30/2020	09/02/2020	05/18/2021	10/26/2021	01/08/2019	10/01/2019	03/31/2020	09/01/2020	05/18/2021	10/27/2021	01/08/2019	10/02/2019	03/31/2020	09/01/2020	05/18/2021	11/01/2021
Appendix III	Units																			
Boron	mg/L	0.164	0.241	0.247	0.26	0.247	0.216	0.677	1.03	1.04	1.06	0.971	0.933	0.0939 J	0.131	0.101	0.149	0.118	0.0962 J	
Calcium	mg/L	27.2	24.2	24.5	23.3	26.4	25.7	57.2	62.5	66.6	57.3	64	61.6	33.8	22.2	21.3	21	22.1	21.4	
Chloride	mg/L	21.9	22.6	22.7	22.6	22.7	23.9	21.3	20	20.7	22.9	21	21	23.1	28	25	26.4	25.5	26.1	
Fluoride	mg/L	0.0831 J	0.0832 J	0.0935 J	0.098 J	0.0958 J	0.107	0.123	0.0517 J	<0.06	0.0695 J	<0.06	<0.06	0.0729 J	0.12	0.0828 J	0.0947 J	0.0783 J	0.123	
pH_Field	SU	6.38	6.16	6.2	5.79	6.33	6.26	6.5	6.05	6.38	6.34	6.34	6.1	6.48	5.9	6.33	6.2	5.92	6.09	
Sulfate	mg/L	1.74	7	75.8	24	19.6	58.2	93.7	5.19	20.3	30.1	24.9	6.04	10.3	9.34	61.1	47.5	32.8	10.9	
TDS	mg/L	276	324	328	318	331	350	462	393	413	403	401	400	348	317	328	338	329	352	
Appendix IV																				
Antimony	mg/L	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	0.000965 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	0.00117 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	
Arsenic	mg/L	0.00121 J	0.00243 J	0.00275 J	0.00346 J	0.00398	0.0048	<0.001	<0.001	<0.001	<0.001	0.000356	0.000331	0.0112	0.022	0.025	0.0257	0.0251	0.0256	
Barium	mg/L	0.337	0.264	0.264	0.289	0.299	0.282	0.149	0.167	0.184	0.203	0.212	0.182	0.144	0.101	0.0939	0.102	0.111	0.103	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<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	0.00129	0.00124	<0.002	<0.002	<0.002	<0.002	0.000684 J	0.000677 J	0.0021 J	<0.002	<0.002	<0.002	0.00112	0.000862 J	
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	0.000882	0.000879	<0.002	<0.002	<0.002	<0.002	0.000648	0.000613	<0.002	<0.002	<0.002	<0.002	0.00237	0.00231	
Combined Radium 226 + 228	pCi/L	1.69	1.66	0.787	2.89	0.975 U	1.61	1.35	1.99	0.957	0.625 U	1.66	1.44 U	1.04	0.896	0.923	1.03	1.31	0.814 U	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	8.16e-005 J	<6.8e-005	
Lithium	mg/L	0.0217	<0.01	<0.01	<0.01	<0.007105	<0.007105	0.0313	<0.01	<0.01	<0.01	<0.007105	<0.007105	0.0148 J	<0.01	<0.01	<0.01	<0.007105	<0.007105	
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	0.00243 J	<0.002	<0.002	<0.002	0.000363	0.000276	0.00335 J	<0.002	<0.002	<0.002	0.000148 J	0.000143 J	0.00303 J	<0.002	<0.002	<0.002	0.00106	0.00118	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	

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



**Appendix A.
Historically Analytical Data
Barry Ash Pond
2016-Present**

Analytes	Wells	BY-AP-MW-13V				BY-AP-MW-14V				BY-AP-MW-15V					BY-AP-MW-16V				
		Date	06/17/2020	09/02/2020	05/19/2021	10/26/2021	06/17/2020	09/02/2020	05/25/2021	10/26/2021	07/31/2019	10/01/2019	05/12/2020	09/01/2020	05/25/2021	10/26/2021	06/16/2020	09/02/2020	05/19/2021
Appendix III	Units																		
Boron	mg/L	0.0847 J	0.112	0.0976 J	0.0888 J	0.426	0.407	0.43	0.393	0.0439 J	0.0824 J	0.0559 J	0.0907 J	0.0617 J	0.0498 J	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	20.2	12.3	12.7	11.3	5.32	4.7	4.66	5.28	9.32	8.41	8.01	6.9	8.47	8.13	2.15	2.02	2.26	1.96
Chloride	mg/L	77	51.7	64.4	47.7	240	178	210	191	157	195	190	170	180	196	77.4	75.6	81.2	68.3
Fluoride	mg/L	0.103	0.0864 J	0.0884 J	0.096 J	0.343	0.359	0.378	0.384	0.0515 J	0.0931 J	0.0946 J	0.0624 J	<0.06	<0.06	0.0744 J	<0.06	<0.06	<0.06
pH_Field	SU	6.25	6.23	6.2	6.81	7.27	7.02	7.2	6.91	5.37	5.68	5.68	5.91	5.6	5.93	5.2	5.23	5.24	5.26
Sulfate	mg/L	101	30.6	39.7	47.3	28	63.6	39.5	75.1	2.65	0.854 J	1.61	2.21	1.19	0.966 J	41.5	40	40.9	38.1
TDS	mg/L	449	361	362	355	546	498	520	474	337	321	327	318	335	321	238	219	213	195
Appendix IV																			
Antimony	mg/L	<0.0008	<0.0008	<0.000507	<0.000508	<0.0008	<0.0008	<0.000507	<0.000508	0.00094 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.0008	<0.0008	<0.000507	<0.000508
Arsenic	mg/L	0.00321 J	0.00708	0.00877	0.0103	0.00208 J	0.00433 J	0.00324	0.0041	0.0174	0.0243	0.0206	0.0401	0.0233	0.0242	0.00135 J	0.0012 J	0.00123	0.00105
Barium	mg/L	0.106	0.109	0.114	0.0827	0.0809	0.0766	0.0729	0.0653	0.144	0.13	0.155	0.134	0.184	0.149	0.0658	0.0733	0.0743	0.0589
Beryllium	mg/L	<0.0006	<0.0006	<0.000406	<0.000406	<0.0006	<0.0006	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.0006	<0.0006	<0.000406	<0.000406
Cadmium	mg/L	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<6.8e-005	<6.8e-005
Chromium	mg/L	0.00537 J	0.00525 J	0.00416	0.00606	<0.002	<0.002	0.00113	0.00098 J	<0.002	<0.002	<0.002	<0.002	0.000258 J	0.000264 J	0.00222 J	<0.002	0.000385 J	0.000402 J
Cobalt	mg/L	<0.002	<0.002	0.000827	0.00114	<0.002	0.00444 J	0.00271	0.00419	0.0632	0.0629	0.0719	0.0665	0.0694	0.0756	0.0144	0.0163	0.0153	0.0159
Combined Radium 226 + 228	pCi/L	1.22	2.49	0.783 U	1.6	0.726	1.54	0.859 U	1.34 U	1.09	1.51	1.67	1.28	1.72	2.53	0.642	1.15	0.496 U	0.773 U
Lead	mg/L	<0.001	<0.001	<6.8e-005	<6.8e-005	<0.001	<0.001	7.24e-005 J	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<0.001	<0.001	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.01	<0.01	<0.007105	0.0484	<0.01	<0.01	<0.007105	<0.007105	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.01	<0.01	<0.007105	<0.007105
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.00237 J	<0.002	0.000642	0.00135	0.00451 J	0.00229 J	0.00135	0.0012	<0.002	<0.002	<0.002	<0.002	0.000106 J	0.00011 J	<0.002	<0.002	<6.8e-005	<6.8e-005
Selenium	mg/L	<0.002	<0.002	<0.000507	<0.000508	<0.002	<0.002	<0.000507	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.002	<0.002	<0.000507	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	8.49e-005 J	7.4e-005 J	<0.0002	<0.0002	9.13e-005 J	0.000103 J

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



**Appendix A.
Historically Analytical Data
Barry Ash Pond
2016-Present**

Analytes	Wells	BY-AP-MW-17V				BY-AP-MW-20V				BY-AP-MW-23V				BY-AP-MW-25VM			
		Date	06/16/2020	09/01/2020	05/18/2021	10/25/2021	06/17/2020	09/01/2020	05/19/2021	11/01/2021	06/16/2020	09/01/2020	05/17/2021	10/26/2021	06/17/2020	09/02/2020	05/24/2021
Appendix III	Units																
Boron	mg/L	0.176	0.124	0.124	0.113	0.118	0.134	0.119	0.11	0.325	0.307	0.32	0.306	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	65.3	20.5	15	6.58	17.9	14.7	15.3	15.1	1.25	1.27	1.33	0.837	0.842	0.547	0.554	0.567
Chloride	mg/L	734	273	225	111	29.2	27.1	32.4	29.6	120	117	134	124	4.04	3.85	3.48	3.42
Fluoride	mg/L	0.0994 J	0.144	0.16	0.172	0.155	0.106	0.123	0.14	0.393	0.401	0.379	0.445	<0.06	<0.06	<0.06	<0.06
pH_Field	SU	6.43	6.49	6.55	6.53	6.26	6.03	6.44	6	8.08	7.98	7.87	8.31	5.27	5.32	5.24	5.13
Sulfate	mg/L	57.4	26.6	17.4	11	10.1	38.3	1.93	5.66	28.6	9.25	6.92	4.23	2.39	2.26	2.59	2.08
TDS	mg/L	1460	576	438	280	301	308	271	282	479	391	386	362	37.3	34	26.7	36
Appendix IV																	
Antimony	mg/L	<0.0008	<0.0008	<0.000507	<0.000508	<0.0008	<0.0008	<0.000507	<0.000508	<0.0008	<0.0008	<0.000507	<0.000508	<0.0008	<0.0008	<0.000507	<0.000508
Arsenic	mg/L	0.0117	0.00472 J	0.00546	0.00162	0.00584	0.00845	0.0148	0.0182	0.00193 J	<0.001	0.00119	0.00119	<0.001	<0.001	<6.8e-005	<6.8e-005
Barium	mg/L	0.62	0.277	0.255	0.0928	0.152	0.115	0.107	0.0883	0.02	0.00933 J	0.0094	0.00766	0.0132	0.0111	0.00981	0.00907
Beryllium	mg/L	<0.0006	<0.0006	<0.000406	<0.000406	<0.0006	<0.0006	<0.000406	<0.000406	<0.0006	<0.0006	<0.000406	<0.000406	<0.0006	<0.0006	<0.000406	<0.000406
Cadmium	mg/L	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<6.8e-005	<6.8e-005
Chromium	mg/L	0.00475 J	<0.002	0.000973 J	0.000619 J	<0.002	<0.002	0.000669 J	0.000606 J	0.0221	0.00284 J	0.00163	0.000605 J	<0.002	<0.002	0.00119	0.0013
Cobalt	mg/L	0.0858	0.022	0.0197	0.00915	0.00593	0.012	0.0173	0.0236	0.00302 J	<0.002	0.000217	<6.8e-005	0.0026 J	<0.002	0.000422	0.000366
Combined Radium 226 + 228	pCi/L	3.7	1.9	1.05 U	1.04 U	0.767	1.43	1.43	1.48	-0.0436 U	0.323 U	0.374 U	0.285 U	0.479	0.596	0.531 U	1.05 U
Lead	mg/L	<0.001	<0.001	0.000137 J	<6.8e-005	<0.001	<0.001	<6.8e-005	<6.8e-005	0.00222 J	<0.001	0.000216	9.98e-005 J	<0.001	<0.001	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.01	<0.01	<0.007105	<0.007105	<0.01	<0.01	<0.007105	<0.007105	<0.01	<0.01	<0.007105	<0.007105	<0.01	<0.01	<0.007105	<0.007105
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	0.000571	0.000877	<0.002	<0.002	0.00155	0.00181	<0.002	<0.002	0.00147	0.00124	<0.002	<0.002	9.23e-005 J	<6.8e-005
Selenium	mg/L	<0.002	<0.002	<0.000507	<0.000508	<0.002	<0.002	<0.000507	<0.000508	<0.002	<0.002	<0.000507	<0.000508	<0.002	<0.002	<0.000507	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<6.8e-005	<6.8e-005

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



**Appendix A.
Historically Analytical Data
Barry Ash Pond
2016-Present**

Analytes	Wells	BY-AP-MW-17H						BY-AP-MW-18H						BY-AP-MW-19H						
		Date	07/31/2019	10/02/2019	04/01/2020	09/01/2020	05/17/2021	10/25/2021	03/20/2019	10/01/2019	04/01/2020	09/01/2020	05/19/2021	10/25/2021	07/31/2019	10/01/2019	05/12/2020	09/01/2020	05/25/2021	10/25/2021
Appendix III	Units																			
Boron	mg/L	0.0782 J	0.129	0.073 J	0.146	0.0911 J	0.0887 J	0.924	1.05	0.435	0.855	0.866	0.931	0.848	0.931	1.22	0.895	0.252	0.142	
Calcium	mg/L	19.1	13.2	27	10.8	12.8	10.4	28.2	27.2	23.1	25.6	27.1	27.1	31.8	31.1	34.2	31.6	23.9	18.3	
Chloride	mg/L	18	17.7	17.2	18.2	17.1	18.4	17.6	20.1	12.2	19.8	19.3	20.5	16.4	16.8	17.9	17.6	10.7	10.1	
Fluoride	mg/L	0.178	0.254	0.151	0.196	0.148	0.182	0.126	0.071 J	0.0722 J	0.0784 J	0.0886 J	0.11	0.089 J	0.0712 J	0.0732 J	0.0752 J	0.0673 J	<0.06	
pH_Field	SU	6.64	6.58	6.52	6.56	6.35	6.48	6.19	6.26	6.48	6.15	6.23	6.76	6.21	6.33	6.09	6.31	6.1	6.13	
Sulfate	mg/L	23	10.6	19.4	7.61	10.2	24.5	12.7	8.49	24.2	30.6	7.48	55	11.3	5.9	22.9	16.9	26.6	28.7	
TDS	mg/L	212	203	243	236	201	225	308	283	210	281	293	309	312	316	321	294	162	123	
Appendix IV																				
Antimony	mg/L	0.000878 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	0.0011 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	0.00137 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	
Arsenic	mg/L	0.0221	0.0251	0.0208	0.0371	0.0329	0.0364	0.00835	0.0137	0.00937	0.015	0.0147	0.0156	<0.001	<0.001	<0.001	0.00101 J	0.0015	0.00134	
Barium	mg/L	0.138	0.117	0.194	0.114	0.125	0.0974	0.154	0.126	0.109	0.123	0.147	0.12	0.137	0.113	0.167	0.159	0.104	0.0738	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<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	0.000627 J	0.000597 J	0.00243 J	<0.002	<0.002	<0.002	0.00132	0.00134	<0.002	<0.002	<0.002	<0.002	0.000391 J	0.00044 J	
Cobalt	mg/L	<0.002	0.0033 J	<0.002	0.00258 J	0.0013	0.00369	<0.002	<0.002	0.013	<0.002	0.00109	0.00103	<0.002	<0.002	<0.002	<0.002	0.00294	0.00501	
Combined Radium 226 + 228	pCi/L	0.621	1.14	0.797	0.44 U	1.64	1.57	0.473	0.6	1.05	0.684	0.971 U	1.2	0.272 U	0.817	0.691	0.675	1.04 U	1.03 U	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	9.09e-005 J	9.9e-005 J	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	0.000469	0.000779	<0.002	<0.002	<0.002	<0.002	0.00025	0.000249	<0.002	<0.002	<0.002	<0.002	0.000124 J	8.42e-005 J	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	

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



**Appendix A.
Historically Analytical Data
Barry Ash Pond
2016-Present**

Analytes	Wells	BY-AP-MW-20H						BY-AP-MW-22H						BY-AP-MW-23H					
		07/31/2019	10/01/2019	04/01/2020	09/01/2020	05/19/2021	10/26/2021	07/31/2019	10/01/2019	05/12/2020	09/01/2020	05/25/2021	10/26/2021	07/31/2019	10/01/2019	04/01/2020	09/01/2020	05/24/2021	10/26/2021
Appendix III	Units																		
Boron	mg/L	0.0707 J	0.101	0.046 J	0.106	0.0909 J	0.0784 J	0.0643 J	0.105	0.0807 J	0.115	0.0889 J	0.0725 J	0.0531 J	0.0856 J	<0.03	0.0943 J	0.0785 J	0.0709 J
Calcium	mg/L	30.3	29.4	26	28.8	30.9	30.2	15	15.5	15	14.8	15.2	15.1	25.8	27.2	15.8	35.8	27.1	29.4
Chloride	mg/L	33.4	44.7	23.1	34.6	36.2	34	60.3	70	58.3	59.9	65.4	54.5	8.03	6.7	4.46	6.96	6.33	5.64
Fluoride	mg/L	0.0934 J	0.0838 J	0.0793 J	0.0954 J	0.0852 J	0.114	0.257	0.268	0.323	0.301	0.282	0.323	0.0766 J	0.0804 J	0.0607 J	0.0919 J	0.0734 J	0.0709 J
pH_Field	SU	6.22	6.24	6.45	6.15	6.17	6.49	6.54	6.6	6.55	6.48	6.44	6.86	6.08	6.03	6.44	6.14	6.19	6.54
Sulfate	mg/L	83.2	28.9	18.7	43.5	59.5	73.2	171	17.2	59.5	93.2	72.3	140	18.4	4.89	18.1	24.5	3.99	29.5
TDS	mg/L	481	470	319	479	479	493	345	346	337	362	378	362	241	261	105	271	244	252
Appendix IV																			
Antimony	mg/L	0.00113 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	0.00117 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	0.000964 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508
Arsenic	mg/L	0.0112	0.013	0.00508	0.0172	0.0132	0.0133	0.0225	0.0225	0.0199	0.0217	0.0191	0.0202	0.0132	0.013	0.00689	0.0226	0.0133	0.00807
Barium	mg/L	0.0928	0.0913	0.119	0.11	0.111	0.0936	0.185	0.213	0.222	0.234	0.261	0.202	0.162	0.175	0.0629	0.182	0.208	0.188
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005
Chromium	mg/L	0.00209 J	0.0025 J	<0.002	0.00283 J	0.00284	0.00261	<0.002	<0.002	<0.002	<0.002	0.000667 J	0.000618 J	<0.002	<0.002	<0.002	<0.002	0.000814 J	0.000696 J
Cobalt	mg/L	0.00433 J	0.00431 J	0.00541	0.0046 J	0.00426	0.00447	0.00233 J	0.00268 J	0.00281 J	0.00294 J	0.00264	0.00285	0.0031 J	0.00201 J	0.0206	0.0273	0.00682	0.00495
Combined Radium 226 + 228	pCi/L	0.268 U	1.22	0.968	0.39 U	1.03 U	1.28 U	0.448	0.508	0.61	0.419 U	1.26	1.52	0.331 U	1.05	0.618	0.224 U	1.1 U	1.13 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	0.000224	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	0.000503	0.000482	0.00426 J	<0.002	<0.002	<0.002	0.00137	0.00136	<0.002	<0.002	<0.002	<0.002	0.00069	0.00035
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005

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



**Appendix A.
Historically Analytical Data
Barry Ash Pond
2016-Present**

Analytes	Wells	BY-AP-MW-24H						BY-AP-MW-25H			
		Date	01/08/2019	10/02/2019	03/31/2020	09/02/2020	05/25/2021	10/26/2021	06/17/2020	09/02/2020	05/24/2021
Appendix III	Units										
Boron	mg/L	0.213	0.344	0.325	0.382	0.37	0.354	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	38	18.4	18.1	17.6	18.6	18.4	0.793	0.875	0.905	1.05
Chloride	mg/L	44.6	53	47.5	43.7	46	41.6	4.81	4.62	4.72	5.07
Fluoride	mg/L	0.147	0.183	0.148	0.158	0.156	0.158	<0.06	<0.06	<0.06	<0.06
pH_Field	SU	6.51	6.21	6.23	6.01	6.16	6.2	5.27	5.39	4.12	5.01
Sulfate	mg/L	31.2	92.3	84.5	59.7	17	122	6.1	4.39	4.94	4.28
TDS	mg/L	504	430	418	471	420	448	44	36	39.3	34.7
Appendix IV											
Antimony	mg/L	0.00116 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.0008	<0.0008	<0.000507	<0.000508
Arsenic	mg/L	0.0306	0.0673	0.0729	0.0783	0.0693	0.0752	<0.001	<0.001	8.73e-005 J	0.000162 J
Barium	mg/L	0.294	0.229	0.243	0.26	0.26	0.238	0.0189	0.0204	0.0206	0.0203
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.0006	<0.0006	<0.000406	<0.000406
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	0.000878 J	0.00104	<0.002	<0.002	0.00117	0.000976 J
Cobalt	mg/L	0.00243 J	0.00513	0.00528	0.0061	0.00542	0.00591	<0.002	0.00246 J	0.00156	0.00146
Combined Radium 226 + 228	pCi/L	1.49	1.24	0.577	1.5 U	0.695 U	0.987 U	0.554	0.0187 U	0.545 U	0.707 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<0.001	<0.001	<6.8e-005	<6.8e-005
Lithium	mg/L	0.0183 J	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.01	<0.01	<0.007105	<0.007105
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.00399 J	<0.002	<0.002	<0.002	0.000869	0.000964	<0.002	<0.002	0.000102 J	0.00014 J
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.002	<0.002	<0.000507	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<6.8e-005	<6.8e-005

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

Appendix B

**Appendix B.
Historical Groundwater Elevations Summary**

Well Name	Top of Casing Elevation	Groundwater Elevation (ft AMSL)										
		2/29/2016	4/18/2016	6/7/2016	8/30/2016	10/17/2016	1/31/2017	3/20/2017	5/1/2017	6/5/2017	9/12/2017	1/22/2018
BY-AP-MW-1	25.80	8.19	7.23	4.52	4.12	2.86	6.90	4.27	4.49	5.11	3.46	3.67
BY-AP-MW-2	23.89	7.59	6.58	3.51	3.03	2.61	5.79	2.99	3.95	4.13	2.49	2.47
BY-AP-MW-3	26.61	7.53	6.53	3.35	2.84	2.43	5.73	2.85	3.81	4.00	2.31	2.31
BY-AP-MW-4	26.97	7.41	6.36	3.12	2.68	2.10	5.56	2.62	3.54	3.73	2.88	2.58
BY-AP-MW-5	28.93	7.39	6.24	2.78	2.46	1.80	5.35	2.44	3.27	3.43	1.58	1.78
BY-AP-MW-6	26.69	7.48	6.34	2.87	2.46	1.66	5.36	2.33	3.20	3.36	1.36	1.63
BY-AP-MW-7	25.94	7.86	6.51	2.74	2.52	1.52	5.52	2.28	3.15	3.40	1.25	1.81
BY-AP-MW-8	28.45	7.90	6.36	2.48	2.34	1.19	5.35	2.06	2.91	3.16	0.92	1.32
BY-AP-MW-9	24.39	7.64	6.16	2.54	2.17	1.08	5.09	1.85	2.77	3.00	0.74	1.09
BY-AP-MW-10	26.89	7.77	6.29	2.74	1.35	1.19	5.19	2.01	2.88	3.14	0.88	1.26
BY-AP-MW-11	26.08	7.82	6.36	2.89	2.48	1.34	5.28	2.23	3.00	3.25	1.04	1.52
BY-AP-MW-12	23.88	7.43	6.00	2.56	2.16	1.07	4.93	1.91	2.67	2.93	0.73	1.19
BY-AP-MW-13	24.22	7.49	6.06	2.67	2.28	1.14	4.98	1.99	2.74	3.01	0.81	1.17
BY-AP-MW-14	11.74	6.89	5.49	2.66	1.72	0.73	4.49	1.44	2.29	2.54	0.36	0.61
BY-AP-MW-15	23.89	7.21	5.88	2.61	2.20	1.34	4.94	1.93	2.82	3.04	0.99	1.72
BY-AP-MW-16	25.01	7.344	6.174	2.944	2.524	2.044	5.31	2.38	3.4	3.52	1.76	1.93
BY-AP-MW-1V	26.23	--	--	--	--	--	--	--	--	--	--	--
BY-AP-MW-5V	28.94	--	--	--	--	--	--	--	--	--	--	--
BY-AP-MW-7V	25.54	--	--	--	--	--	--	--	--	--	--	--
BY-AP-MW-8V	28.25	--	--	--	--	--	--	--	--	--	--	--
BY-AP-MW-10V	25.39	--	--	--	--	--	--	--	--	--	--	--
BY-AP-MW-12V	25.51	--	--	--	--	--	--	--	--	--	--	--
BY-AP-MW-13V	24.65	--	--	--	--	--	--	--	--	--	--	--
BY-AP-MW-14V	24.72	--	--	--	--	--	--	--	--	--	--	--
BY-AP-MW-15V	7.03	--	--	--	--	--	--	--	--	--	--	--
BY-AP-MW-15VM	23.51	--	--	--	--	--	--	--	--	--	--	--
BY-AP-MW-16V	23.65	--	--	--	--	--	--	--	--	--	--	--
BY-AP-MW-17H	19.83	--	--	--	--	--	--	--	--	--	--	--
BY-AP-MW-17V	20.40	--	--	--	--	--	--	--	--	--	--	--
BY-AP-MW-18H	10.30	--	--	--	--	--	--	--	--	--	--	--
BY-AP-MW-19H	9.40	--	--	--	--	--	--	--	--	--	--	--
BY-AP-MW-20H	9.40	--	--	--	--	--	--	--	--	--	--	--
BY-AP-MW-20V	24.91	--	--	--	--	--	--	--	--	--	--	--
BY-AP-MW-22H	7.85	--	--	--	--	--	--	--	--	--	--	--
BY-AP-MW-23H	10.63	--	--	--	--	--	--	--	--	--	--	--
BY-AP-MW-23V	15.33	--	--	--	--	--	--	--	--	--	--	--
BY-AP-MW-24H	26.28	--	--	--	--	--	--	--	--	--	--	--
BY-AP-MW-25H	23.82	--	--	--	--	--	--	--	--	--	--	--
BY-AP-MW-25VM	23.81	--	--	--	--	--	--	--	--	--	--	--

Well Name	Top of Casing Elevation	Groundwater Elevation (ft AMSL)										
		2/22/2016	4/18/2016	6/7/2016	8/29/2016	10/17/2016	1/30/2017	3/20/2017	5/1/2017	6/5/2017	9/12/2017	1/21/2018
BY-GSA-MW-1 ³	20.66	7.73	7.92	5.81	5.13	4.59	6.94	5.42	5.51	6.64	5.45	4.75
BY-GSA-MW-2 ³	19.95	7.55	7.77	5.75	5.04	4.50	6.82	5.30	5.48	6.45	5.30	4.68
BY-GSA-MW-3 ³	23.24	8.19	8.45	6.52	5.78	5.19	7.55	6.04	6.16	7.39	6.16	5.46
BY-GSA-MW-4 ³	29.12	7.83	8.13	6.21	5.47	4.93	7.25	5.71	5.98	6.87	5.74	5.18

Notes:

1. ft. AMSL - feet above mean sea level
2. -- Not Measured
3. BY-GSA-MW-1 - BY-GSA-MW-4 designated as upgradient Ash Pond well locations.

**Appendix B.
Historical Groundwater Elevations Summary**

Well Name	Top of Casing Elevation	Groundwater Elevation (ft AMSL)											
		4/30/2018	8/27/2018	11/26/2018	3/20/2019	5/28/2019	9/30/2019	3/30/2020	5/12/2020	6/15/2020	8/31/2020	5/24/2021	10/18/2021
BY-AP-MW-1	25.80	6.52	4.19	5.1	7.53	4.33	3.4	6.97	4.38	5.02	5.02	5.28	5.06
BY-AP-MW-2	23.89	5.84	2.95	4.26	6.99	3.55	2.74	6.53	3.55	3.81	3.84	3.96	3.63
BY-AP-MW-3	26.61	5.78	2.83	4.09	6.86	3.41	2.6	6.46	3.39	3.70	3.84	3.84	3.47
BY-AP-MW-4	26.97	5.62	2.62	3.84	6.63	3.14	2.33	6.21	3.06	3.39	3.60	3.57	3.15
BY-AP-MW-5	28.93	5.49	2.48	3.53	6.43	2.89	2.08	5.9	2.66	3.00	3.29	--	2.81
BY-AP-MW-6	26.69	5.58	2.33	3.6	6.45	2.66	1.91	6.1	2.51	2.85	3.30	3.04	2.64
BY-AP-MW-7	25.94	5.82	2.29	3.51	6.60	2.47	1.69	6.25	2.31	2.90	3.35	2.53	2.21
BY-AP-MW-8	28.45	5.56	2.14	3.17	6.37	2.17	1.32	5.89	1.53	2.41	3.21	2.35	4.96
BY-AP-MW-9	24.39	5.33	1.90	3.15	6.17	1.96	1.26	5.83	1.47	2.36	2.97	-7.64	2.05
BY-AP-MW-10	26.89	5.47	2.07	3.09	6.26	2.12	1.34	4.96	1.58	2.46	3.11	2.17	1.89
BY-AP-MW-11	26.08	5.60	2.26	3.2	6.41	2.32	1.54	5.94	1.64	2.50	3.16	2.41	2.06
BY-AP-MW-12	23.88	5.23	1.99	2.86	5.98	1.97	1.26	6.02	1.52	2.31	2.95	2.48	2.13
BY-AP-MW-13	24.22	5.28	2.10	2.94	6.09	2.11	1.42	5.83	1.68	2.43	3.11	2.64	2.29
BY-AP-MW-14	11.74	4.66	1.49	2.51	5.49	1.6	0.89	5.04	0.97	1.77	1.96	1.89	1.56
BY-AP-MW-15	23.89	5.14	1.98	3.07	6.13	2.23	1.58	5.77	1.93	2.57	3.12	2.74	2.45
BY-AP-MW-16	25.01	5.4	2.4	3.7	6.47	2.82	2.2	6.08	2.35	3.83	3.45	3.22	2.92
BY-AP-MW-1V	26.23	--	--	--	6.90	--	2.65	7.34	3.69	3.61	3.72	3.72	3.43
BY-AP-MW-5V	28.94	--	--	--	6.43	--	2.1	5.88	2.63	3.00	3.32	--	2.79
BY-AP-MW-7V	25.54	--	--	--	6.54	--	1.66	6.03	2.15	2.68	3.13	2.51	2.21
BY-AP-MW-8V	28.25	--	--	--	6.18	--	1.23	5.74	1.44	2.23	2.82	2.41	2.07
BY-AP-MW-10V	25.39	--	--	--	6.09	--	1.21	5.65	1.23	2.17	2.78	2.21	1.93
BY-AP-MW-12V	25.51	--	--	--	8.15	--	3.46	7.83	3.53	4.33	5.00	4.53	4.19
BY-AP-MW-13V	24.65	--	--	--	--	--	--	--	1.48	2.23	2.93	2.47	2.57
BY-AP-MW-14V	24.72	--	--	--	--	--	--	--	2.13	2.26	2.88	2.41	2.09
BY-AP-MW-15V	7.03	--	--	--	--	--	1.97	--	2.17	2.71	3.23	2.83	2.52
BY-AP-MW-15VM	23.51	--	--	--	--	--	--	--	4.15	3.95	3.90	3.98	3.45
BY-AP-MW-16V	23.65	--	--	--	--	--	--	--	2.97	3.15	3.47	3.26	2.94
BY-AP-MW-17H	19.83	--	--	--	--	--	1.51	5.88	1.47	2.36	2.93	2.37	2.14
BY-AP-MW-17V	20.40	--	--	--	--	--	--	--	1.51	2.11	3.01	2.44	2.20
BY-AP-MW-18H	10.30	--	--	--	6.33	--	1.34	5.88	1.87	2.03	3.00	2.40	2.05
BY-AP-MW-19H	9.40	--	--	--	--	--	1.42	5.85	2.02	2.07	3.04	2.45	2.14
BY-AP-MW-20H	9.40	--	--	--	--	--	1.55	5.79	1.55	2.31	2.97	2.51	2.13
BY-AP-MW-20V	24.91	--	--	--	--	--	--	--	1.4	2.19	2.87	2.39	2.04
BY-AP-MW-22H	7.85	--	--	--	--	--	1.85	--	2.17	2.75	3.09	2.80	2.46
BY-AP-MW-23H	10.63	--	--	--	--	--	1.67	5.98	1.55	2.48	3.07	2.44	2.14
BY-AP-MW-23V	15.33	--	--	--	--	--	--	--	1.5	2.09	2.98	2.34	2.15
BY-AP-MW-24H	26.28	--	--	--	6.31	--	1.86	5.82	1.4	2.74	3.16	2.92	2.60
BY-AP-MW-25H	23.82	--	--	--	--	--	--	--	3.49	3.53	3.37	3.63	3.29
BY-AP-MW-25VM	23.81	--	--	--	--	--	--	--	3.22	3.42	3.38	3.58	3.19

Well Name	Top of Casing Elevation	Groundwater Elevation (ft AMSL)									
		4/30/2018	8/27/2018	11/26/2018	3/20/2019	5/28/2019	10/2/2019	3/30/2020	9/8/2020	5/24/2021	10/18/2021
BY-GSA-MW-1 ³	20.66	6.83	5.22	5.84	--	6.60	4.78	8.38	5.31	7.13	6.64
BY-GSA-MW-2 ³	19.95	6.66	5.06	5.73	--	6.32	4.71	8.05	5.16	6.80	6.40
BY-GSA-MW-3 ³	23.24	7.19	5.76	6.40	--	7.02	5.37	8.54	5.83	7.49	7.19
BY-GSA-MW-4 ³	29.12	6.99	5.47	6.13	--	6.57	5.16	8.20	5.53	6.99	6.68

Notes:

1. ft. AMSL - feet above mean sea level
2. -- Not Measured
3. BY-GSA-MW-1 - BY-GSA-MW-4 designated as upgradient Ash Pond well locations.

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



Plant Barry Pooled Upgradient

2021 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).

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.

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

Analytical Report



Sample Group : WMWBARAP_1320

Project/Site : Barry Ash Pond
Bucks, AL 36512

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

Attention : Dustin Brooks & Greg Dyer

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

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



June 16, 2021

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory between May 13, 2021 and May 26, 2021. All results reported herein conform to the laboratory's most current Quality Assurance Manual. Results marked with an asterisk conform to the most current applicable TNI/NELAC requirements. Exceptions will be noted in the body of the report.

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

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

Sincerely,

Quality Control: **Laura Midkiff**
Digitally signed by Laura Midkiff
DN: cn=Laura Midkiff, o=Alabama Power
Company, ou=Environmental Affairs,
email=lmidkif@southernco.com, c=US
Date: 2021.06.22 10:35:13 -0500

Supervision: **T. Durant Maske**
Digitally signed by T. Durant Maske
DN: cn=T. Durant Maske, o=Alabama
Power Company, ou=Environmental
Affairs, email=tdmaske@southernco.com,
c=US
Date: 2021.06.23 15:53:27 -0500



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

Barry Ash Pond

WMWBARAP_1320

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>
BB08940	699666	WMWBARAP_1320
BB08941	699666	WMWBARAP_1320
BB08942	699666	WMWBARAP_1320
BB09274	699666	WMWBARAP_1320
BB09275	699666	WMWBARAP_1320
BB09276	699666	WMWBARAP_1320
BB09277	699666	WMWBARAP_1320
BB09278	699666	WMWBARAP_1320
BB09279	699666	WMWBARAP_1320
BB09280	699666	WMWBARAP_1320
BB09281	699667	WMWBARAP_1320
BB09282	699667	WMWBARAP_1320
BB09283	699667	WMWBARAP_1320
BB09284	699667	WMWBARAP_1320
BB09285	699667	WMWBARAP_1320
BB09286	699667	WMWBARAP_1320
BB09287	699667	WMWBARAP_1320
BB09288	699667	WMWBARAP_1320
BB09289	699667	WMWBARAP_1320
BB09290	699667	WMWBARAP_1320
BB09291	669668	WMWBARAP_1320
BB09292	669668	WMWBARAP_1320
BB09293	669668	WMWBARAP_1320
BB09405	669668	WMWBARAP_1320
BB09406	669668	WMWBARAP_1320
BB09407	669668	WMWBARAP_1320
BB09408	669668	WMWBARAP_1320
BB09409	669668	WMWBARAP_1320
BB09410	669668	WMWBARAP_1320
BB09411	669668	WMWBARAP_1320
BB09412	669669	WMWBARAP_1320

BB09413	669669	WMWBARAP_1320
BB09697	669669	WMWBARAP_1320
BB09698	669669	WMWBARAP_1320
BB09699	669669	WMWBARAP_1320
BB09700	669669	WMWBARAP_1320
BB09701	669669	WMWBARAP_1320
BB09702	669669	WMWBARAP_1320
BB09703	669669	WMWBARAP_1320
BB09704	669669	WMWBARAP_1320
BB09705	669670	WMWBARAP_1320
BB09706	669670	WMWBARAP_1320
BB09707	669670	WMWBARAP_1320
BB09708	669670	WMWBARAP_1320
BB09709	669670	WMWBARAP_1320

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

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- 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:
 - BB09411 and BB09290 Iron MS/MSD spike levels were less than 30% of the sample concentrations.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution factor</u>
BB08940	Calcium, Iron	20.3
BB08941	Iron	101.5
BB08942	Iron	101.5
BB09274	Sodium	101.5
BB09276	Iron	101.5
BB09277	Iron	20.3
BB09278	Iron	20.3
BB09279	Iron	20.3
BB09280	Sodium	101.5
BB09283	Sodium	20.3
BB09284	Sodium	20.3
BB09285	Iron	101.5
BB09289	Iron	101.5
BB09290	Calcium, Iron	50.75
BB09291	Calcium, Iron	50.75
BB09292	Iron, Sodium	50.75
BB09293	Iron, Sodium	50.75
BB09405	Iron	50.75
BB09406	Calcium, Iron, Sodium	50.75
BB09407	Iron	50.75
BB09408	Iron, Sodium	10.15
BB09409	Iron, Sodium	50.75
BB09410	Iron, Sodium	50.75
BB09411	Iron, Sodium	50.75
BB09412	Iron, Sodium	50.75

Case Narrative

BB09697	Iron	50.75
BB09699	Iron	20.3
BB09700	Iron, Sodium	50.75
BB09701	Iron, Sodium	50.75
BB09702	Iron, Sodium	50.75
BB09706	Iron, Sodium	50.75
BB09707	Iron, Sodium	50.75
BB09708	Iron, Sodium	50.75

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

Dissolved Metals ICP

Barry Ash Pond

WMWBARAP_1320

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>
BB08940	699623	WMWBARAP_1320
BB08941	699623	WMWBARAP_1320
BB08942	699623	WMWBARAP_1320
BB09274	699623	WMWBARAP_1320
BB09276	699623	WMWBARAP_1320
BB09277	699623	WMWBARAP_1320
BB09278	699623	WMWBARAP_1320
BB09279	699623	WMWBARAP_1320
BB09280	699623	WMWBARAP_1320
BB09281	699623	WMWBARAP_1320
BB09283	699624	WMWBARAP_1320
BB09284	699624	WMWBARAP_1320
BB09285	699624	WMWBARAP_1320
BB09286	699624	WMWBARAP_1320
BB09287	699624	WMWBARAP_1320
BB09288	699624	WMWBARAP_1320
BB09289	699624	WMWBARAP_1320
BB09290	699624	WMWBARAP_1320
BB09291	699624	WMWBARAP_1320
BB09292	699624	WMWBARAP_1320
BB09293	699625	WMWBARAP_1320
BB09405	699625	WMWBARAP_1320
BB09406	699625	WMWBARAP_1320
BB09407	699625	WMWBARAP_1320
BB09408	699625	WMWBARAP_1320
BB09409	699625	WMWBARAP_1320
BB09410	699625	WMWBARAP_1320
BB09411	699625	WMWBARAP_1320
BB09412	699625	WMWBARAP_1320
BB09697	699625	WMWBARAP_1320
BB09699	699626	WMWBARAP_1320

BB09700	699626	WMWBARAP_1320
BB09701	699626	WMWBARAP_1320
BB09702	699626	WMWBARAP_1320
BB09703	699626	WMWBARAP_1320
BB09704	699626	WMWBARAP_1320
BB09705	699626	WMWBARAP_1320
BB09706	699626	WMWBARAP_1320
BB09707	699626	WMWBARAP_1320
BB09708	699626	WMWBARAP_1320

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

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each batch passed all acceptance criteria for all requested analytes.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed and all acceptance criteria were met.
- 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:
 - BB09292, BB09697, and BB09708 Iron MS/MSD spike levels were less than 30% of 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>
BB08940	Iron	101.5
BB08941	Iron	101.5
BB08942	Iron	101.5
BB09276	Iron	101.5
BB09277	Iron	10.15
BB09278	Iron	10.15
BB09279	Iron	10.15
BB09285	Iron	101.5
BB09289	Iron	101.5
BB09290	Iron	101.5
BB09291	Iron	101.5
BB09292	Iron	101.5
BB09293	Iron	101.5
BB09405	Iron	101.5
BB09406	Iron	101.5
BB09407	Iron	101.5
BB09408	Iron	10.15
BB09409	Iron	101.5
BB09410	Iron	101.5
BB09411	Iron	101.5
BB09412	Iron	101.5
BB09697	Iron	101.5
BB09699	Iron	10.15
BB09700	Iron	10.15
BB09701	Iron	10.15

Case Narrative

BB09702	Iron	101.5
BB09706	Iron	101.5
BB09707	Iron	101.5
BB09708	Iron	101.5

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

Total Metals ICPMS

Barry Ash Pond

WMWBARAP_1320

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>
BB08940	700073	WMWBARAP_1320
BB08941	700073	WMWBARAP_1320
BB08942	700073	WMWBARAP_1320
BB09274	700073	WMWBARAP_1320
BB09275	700073	WMWBARAP_1320
BB09276	700073	WMWBARAP_1320
BB09277	700073	WMWBARAP_1320
BB09278	700073	WMWBARAP_1320
BB09279	700073	WMWBARAP_1320
BB09280	700073	WMWBARAP_1320
BB09281	700074	WMWBARAP_1320
BB09282	700074	WMWBARAP_1320
BB09283	700074	WMWBARAP_1320
BB09284	700074	WMWBARAP_1320
BB09285	700074	WMWBARAP_1320
BB09286	700074	WMWBARAP_1320
BB09287	700074	WMWBARAP_1320
BB09288	700074	WMWBARAP_1320
BB09289	700074	WMWBARAP_1320
BB09290	700074	WMWBARAP_1320
BB09291	700075	WMWBARAP_1320
BB09292	700075	WMWBARAP_1320
BB09293	700075	WMWBARAP_1320
BB09405	700075	WMWBARAP_1320
BB09406	700075	WMWBARAP_1320
BB09407	700075	WMWBARAP_1320
BB09408	700075	WMWBARAP_1320
BB09409	700075	WMWBARAP_1320
BB09410	700075	WMWBARAP_1320
BB09411	700075	WMWBARAP_1320
BB09412	700076	WMWBARAP_1320

BB09413	700076	WMWBARAP_1320
BB09697	700076	WMWBARAP_1320
BB09698	700076	WMWBARAP_1320
BB09699	700076	WMWBARAP_1320
BB09700	700076	WMWBARAP_1320
BB09701	700076	WMWBARAP_1320
BB09702	700076	WMWBARAP_1320
BB09703	700076	WMWBARAP_1320
BB09704	700076	WMWBARAP_1320
BB09705	700077	WMWBARAP_1320
BB09706	700077	WMWBARAP_1320
BB09707	700077	WMWBARAP_1320
BB09708	700077	WMWBARAP_1320
BB09709	700077	WMWBARAP_1320

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.

Matrix Specific Quality Control Procedures:

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

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution factor</u>
BB08940	Manganese	5.075
BB08941	Manganese	5.075
BB09290	Manganese	5.075
BB09410	Manganese	5.075

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

Dissolved Metals ICPMS

Barry Ash Pond

WMWBARAP_1320

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>
BB08940	699798	WMWBARAP_1320
BB08941	699798	WMWBARAP_1320
BB08942	699798	WMWBARAP_1320
BB09274	699798	WMWBARAP_1320
BB09276	699798	WMWBARAP_1320
BB09277	699798	WMWBARAP_1320
BB09278	699798	WMWBARAP_1320
BB09279	699798	WMWBARAP_1320
BB09280	699798	WMWBARAP_1320
BB09281	699798	WMWBARAP_1320
BB09283	699799	WMWBARAP_1320
BB09284	699799	WMWBARAP_1320
BB09285	699799	WMWBARAP_1320
BB09286	699799	WMWBARAP_1320
BB09287	699799	WMWBARAP_1320
BB09288	699799	WMWBARAP_1320
BB09289	699799	WMWBARAP_1320
BB09290	699799	WMWBARAP_1320
BB09291	699799	WMWBARAP_1320
BB09292	699799	WMWBARAP_1320
BB09293	699800	WMWBARAP_1320
BB09405	699800	WMWBARAP_1320
BB09406	699800	WMWBARAP_1320
BB09407	699800	WMWBARAP_1320
BB09408	699800	WMWBARAP_1320
BB09409	699800	WMWBARAP_1320
BB09410	699800	WMWBARAP_1320
BB09411	699800	WMWBARAP_1320
BB09412	699800	WMWBARAP_1320
BB09697	699800	WMWBARAP_1320
BB09699	699801	WMWBARAP_1320

BB09700	699801	WMWBARAP_1320
BB09701	699801	WMWBARAP_1320
BB09702	699801	WMWBARAP_1320
BB09703	699801	WMWBARAP_1320
BB09704	699801	WMWBARAP_1320
BB09705	699801	WMWBARAP_1320
BB09706	699801	WMWBARAP_1320
BB09707	699801	WMWBARAP_1320
BB09708	699801	WMWBARAP_1320

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.

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:
 - BB09292 Manganese MS/MSD spike level was less than 30% of the sample concentration.
- A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for precision were met.

7. The following 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>
BB08940	Manganese	5.075
BB08941	Manganese	5.075
BB09290	Manganese	5.075
BB09405	Manganese	5.075
BB09410	Manganese	5.075

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

Mercury

Barry Ash Pond

WMWBARAP_1320

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>
BB08940	698556	WMWBARAP_1320
BB08941	698556	WMWBARAP_1320
BB08942	698556	WMWBARAP_1320
BB09274	698610	WMWBARAP_1320
BB09275	698610	WMWBARAP_1320
BB09276	698610	WMWBARAP_1320
BB09277	698610	WMWBARAP_1320
BB09278	698610	WMWBARAP_1320
BB09279	698610	WMWBARAP_1320
BB09280	698610	WMWBARAP_1320
BB09281	698610	WMWBARAP_1320
BB09282	698610	WMWBARAP_1320
BB09283	698610	WMWBARAP_1320
BB09284	698611	WMWBARAP_1320
BB09285	698611	WMWBARAP_1320
BB09286	698611	WMWBARAP_1320
BB09287	698611	WMWBARAP_1320
BB09288	698611	WMWBARAP_1320
BB09289	698611	WMWBARAP_1320
BB09290	698611	WMWBARAP_1320
BB09291	698611	WMWBARAP_1320
BB09292	698611	WMWBARAP_1320
BB09293	698611	WMWBARAP_1320
BB09405	699808	WMWBARAP_1320
BB09406	699808	WMWBARAP_1320
BB09407	699808	WMWBARAP_1320
BB09408	699808	WMWBARAP_1320
BB09409	699808	WMWBARAP_1320
BB09410	699808	WMWBARAP_1320
BB09411	699808	WMWBARAP_1320
BB09412	699808	WMWBARAP_1320

BB09413	699808	WMWBARAP_1320
BB09697	699808	WMWBARAP_1320
BB09698	699809	WMWBARAP_1320
BB09699	699809	WMWBARAP_1320
BB09700	699809	WMWBARAP_1320
BB09701	699809	WMWBARAP_1320
BB09702	699809	WMWBARAP_1320
BB09703	699809	WMWBARAP_1320
BB09704	699809	WMWBARAP_1320
BB09705	699809	WMWBARAP_1320
BB09706	699809	WMWBARAP_1320
BB09707	699809	WMWBARAP_1320
BB09708	699810	WMWBARAP_1320
BB09709	699810	WMWBARAP_1320

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 batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution.
 8. The raw data results are shown with dilution factors included.

TDS

Barry Ash Pond

WMWBARAP_1320

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>
BB08940	698157	WMWBARAP_1320
BB08941	698157	WMWBARAP_1320
BB08942	698157	WMWBARAP_1320
BB09274	698835	WMWBARAP_1320
BB09275	698835	WMWBARAP_1320
BB09276	698835	WMWBARAP_1320
BB09277	698835	WMWBARAP_1320
BB09278	699004	WMWBARAP_1320
BB09279	699004	WMWBARAP_1320
BB09280	698835	WMWBARAP_1320
BB09281	698835	WMWBARAP_1320
BB09282	698835	WMWBARAP_1320
BB09283	698835	WMWBARAP_1320
BB09284	698836	WMWBARAP_1320
BB09285	698836	WMWBARAP_1320
BB09286	698836	WMWBARAP_1320
BB09287	699004	WMWBARAP_1320
BB09288	699004	WMWBARAP_1320
BB09289	698836	WMWBARAP_1320
BB09290	698836	WMWBARAP_1320
BB09291	698836	WMWBARAP_1320
BB09292	698836	WMWBARAP_1320
BB09293	699004	WMWBARAP_1320
BB09405	699005	WMWBARAP_1320
BB09406	699005	WMWBARAP_1320
BB09407	699005	WMWBARAP_1320
BB09408	699005	WMWBARAP_1320
BB09409	699005	WMWBARAP_1320
BB09410	699005	WMWBARAP_1320
BB09411	699005	WMWBARAP_1320
BB09412	699005	WMWBARAP_1320

BB09413	699005	WMWBARAP_1320
BB09697	699587	WMWBARAP_1320
BB09698	699587	WMWBARAP_1320
BB09699	699587	WMWBARAP_1320
BB09700	699587	WMWBARAP_1320
BB09701	699587	WMWBARAP_1320
BB09702	699587	WMWBARAP_1320
BB09703	699587	WMWBARAP_1320
BB09704	699587	WMWBARAP_1320
BB09705	699587	WMWBARAP_1320
BB09706	699587	WMWBARAP_1320
BB09707	699588	WMWBARAP_1320
BB09708	699588	WMWBARAP_1320
BB09709	699588	WMWBARAP_1320

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

General Quality Control Procedures:

- A Method Blank was analyzed with each batch. All criteria were met.
- All final weights of samples, standards, and blanks agreed within 0.5mg of the previous weight.
- A sample duplicate was analyzed with each batch. RPD/2 was less than 5%.
- A laboratory control sample was analyzed with each batch. All criteria were met.
- Samples were between 2.5mg and 200mg residue.
- All samples with residue <2.5mg had the maximum volume of 150mL filtered. Affected samples are as follows:
 - BB09275
 - BB09282
 - BB09413
 - BB09698
 - BB09709

Anions

Barry Ash Pond

WMWBARAP_1320

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>
BB08940	698492, 698495, & 698614	WMWBARAP_1320
BB08941	698492, 698495, & 698614	WMWBARAP_1320
BB08942	698492, 698495, & 698614	WMWBARAP_1320
BB09274	699904, 699909, & 698617	WMWBARAP_1320
BB09275	699904, 699909, & 698617	WMWBARAP_1320
BB09276	699904, 699909, & 698617	WMWBARAP_1320
BB09277	699904, 699909, & 698617	WMWBARAP_1320
BB09278	699904, 699909, & 698617	WMWBARAP_1320
BB09279	699904, 699909, & 698617	WMWBARAP_1320
BB09280	699904, 699909, & 698617	WMWBARAP_1320
BB09281	699904, 699909, & 698617	WMWBARAP_1320
BB09282	699904, 699909, & 698617	WMWBARAP_1320
BB09283	699904, 699909, & 698617	WMWBARAP_1320
BB09284	699905, 699910, & 698618	WMWBARAP_1320
BB09285	699905, 699910, & 698618	WMWBARAP_1320
BB09286	699905, 699910, & 698618	WMWBARAP_1320
BB09287	699905, 699910, & 698618	WMWBARAP_1320
BB09288	699905, 699910, & 698618	WMWBARAP_1320
BB09289	699905, 699910, & 698618	WMWBARAP_1320
BB09290	699905, 699910, & 698618	WMWBARAP_1320
BB09291	699905, 699910, & 698618	WMWBARAP_1320
BB09292	699905, 699910, & 698618	WMWBARAP_1320
BB09293	699905, 699910, & 698618	WMWBARAP_1320
BB09405	699906, 699911, & 700277	WMWBARAP_1320
BB09406	699906, 699911, & 700277	WMWBARAP_1320
BB09407	699906, 699911, & 700277	WMWBARAP_1320
BB09408	699906, 699911, & 700277	WMWBARAP_1320
BB09409	699906, 699911, & 700277	WMWBARAP_1320
BB09410	699906, 699911, & 700277	WMWBARAP_1320
BB09411	699906, 699911, & 700277	WMWBARAP_1320
BB09412	699906, 699911, & 700277	WMWBARAP_1320

BB09413	699906, 699911, & 700277	WMWBARAP_1320
BB09697	699907, 699912, & 700278	WMWBARAP_1320
BB09698	699907, 699912, & 700278	WMWBARAP_1320
BB09699	699907, 699912, & 700278	WMWBARAP_1320
BB09700	699907, 699912, & 700278	WMWBARAP_1320
BB09701	699907, 699912, & 700278	WMWBARAP_1320
BB09702	699907, 699912, & 700278	WMWBARAP_1320
BB09703	699907, 699912, & 700278	WMWBARAP_1320
BB09704	699907, 699912, & 700278	WMWBARAP_1320
BB09705	699907, 699912, & 700278	WMWBARAP_1320
BB09706	699907, 699912, & 700278	WMWBARAP_1320
BB09707	699908, 699913, & 700279	WMWBARAP_1320
BB09708	699908, 699913, & 700279	WMWBARAP_1320
BB09709	699908, 699913, & 700279	WMWBARAP_1320

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

General Quality Control Procedures:

- All calibration met criteria for the requested analyte.
- Prior to sample analysis, an initial calibration verification (ICV), and all criteria were met.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

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

- A matrix spike was analyzed with each batch. Acceptance criteria for accuracy were met.
- A sample duplicate was analyzed with each batch. Acceptance criteria for precision were met.

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

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution factor</u>
BB08940	Chloride	2
BB08941	Chloride & Sulfate	2 & 2
BB08942	Chloride	10
BB09274	Chloride	16
BB09276	Chloride	2
BB09280	Chloride	10
BB09283	Chloride	10
BB09284	Chloride	8
BB09285	Chloride	2
BB09291	Chloride	2
BB09292	Chloride	2
BB09293	Chloride	4
BB09406	Chloride	2
BB09407	Chloride	2
BB09408	Chloride & Sulfate	8 & 2
BB09409	Chloride & Sulfate	3 & 3
BB09410	Chloride	2
BB09411	Chloride	8
BB09412	Chloride & Sulfate	5 & 2
BB09700	Chloride & Sulfate	25 & 2
BB09701	Chloride	25
BB09702	Chloride & Sulfate	5 & 3
BB09706	Chloride	25
BB09707	Chloride & Sulfate	8 & 3
BB09708	Chloride	5

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

Alkalinity

Barry Ash Pond

WMWBARAP_1320

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>
BB08940	698928 & 698929	WMWBARAP_1320
BB08941	698928 & 698929	WMWBARAP_1320
BB08942	698928 & 698929	WMWBARAP_1320
BB09274	699554 & 699555	WMWBARAP_1320
BB09276	699554 & 699555	WMWBARAP_1320
BB09277	699554 & 699555	WMWBARAP_1320
BB09278	699554 & 699555	WMWBARAP_1320
BB09279	699554 & 699555	WMWBARAP_1320
BB09280	699554 & 699555	WMWBARAP_1320
BB09281	699554 & 699555	WMWBARAP_1320
BB09283	699554 & 699555	WMWBARAP_1320
BB09284	699554 & 699555	WMWBARAP_1320
BB09285	699554 & 699555	WMWBARAP_1320
BB09286	699554 & 699555	WMWBARAP_1320
BB09287	699554 & 699555	WMWBARAP_1320
BB09288	699554 & 699555	WMWBARAP_1320
BB09289	699554 & 699555	WMWBARAP_1320
BB09290	699554 & 699555	WMWBARAP_1320
BB09291	699554 & 699555	WMWBARAP_1320
BB09292	699554 & 699555	WMWBARAP_1320
BB09293	699554 & 699555	WMWBARAP_1320
BB09405	699554 & 699555	WMWBARAP_1320
BB09406	699554 & 699555	WMWBARAP_1320
BB09407	699679 & 699680	WMWBARAP_1320
BB09408	699679 & 699680	WMWBARAP_1320
BB09409	699679 & 699680	WMWBARAP_1320
BB09410	699679 & 699680	WMWBARAP_1320
BB09411	699679 & 699680	WMWBARAP_1320
BB09412	699679 & 699680	WMWBARAP_1320
BB09697	699679 & 699680	WMWBARAP_1320
BB09699	699679 & 699680	WMWBARAP_1320

BB09700	699679 & 699680	WMWBARAP_1320
BB09701	699679 & 699680	WMWBARAP_1320
BB09702	699679 & 699680	WMWBARAP_1320
BB09703	699679 & 699680	WMWBARAP_1320
BB09704	699679 & 699680	WMWBARAP_1320
BB09705	699679 & 699680	WMWBARAP_1320
BB09706	699679 & 699680	WMWBARAP_1320
BB09707	699679 & 699680	WMWBARAP_1320
BB09708	699679 & 699680	WMWBARAP_1320

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

General Quality Control Procedures:

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-10

Location Code: WMWBARAP
Collected: 5/11/21 08:20
Customer ID:
Submittal Date: 5/13/21 13:56

Laboratory ID Number: BB08940

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA			Preparation Method: EPA 1638			
* Boron, Total	6/1/21 09:55	6/4/21 09:01		1.015	1.99	mg/L	0.030000	0.1015	
* Calcium, Total	6/1/21 09:55	6/4/21 14:57		20.3	62.7	mg/L	1.4007	8.12	
* Iron, Total	6/1/21 09:55	6/4/21 14:57		20.3	63.6	mg/L	0.1624	0.812	
* Lithium, Total	6/1/21 09:55	6/4/21 09:01		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/1/21 09:55	6/4/21 09:01		1.015	17.3	mg/L	0.021315	0.406	
* Sodium, Total	6/1/21 09:55	6/4/21 09:01		1.015	26.5	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA						
* Iron, Dissolved	6/1/21 06:55	6/2/21 14:00		101.5	65.3	mg/L	0.8120	4.06	
Analytical Method: EPA 200.8			Analyst: DLJ			Preparation Method: EPA 1638			
* Antimony, Total	6/1/21 09:55	6/2/21 13:29		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	6/1/21 09:55	6/2/21 13:29		1.015	0.0762	mg/L	0.000068	0.000203	
* Barium, Total	6/1/21 09:55	6/2/21 13:29		1.015	0.0757	mg/L	0.000101	0.000203	
* Beryllium, Total	6/1/21 09:55	6/2/21 13:29		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/21 09:55	6/2/21 13:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/21 09:55	6/2/21 13:29		1.015	0.000685	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/1/21 09:55	6/2/21 13:29		1.015	0.000636	mg/L	0.000068	0.000203	
* Lead, Total	6/1/21 09:55	6/2/21 13:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	6/1/21 09:55	6/2/21 13:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	6/1/21 09:55	6/2/21 13:29		1.015	1.50	mg/L	0.169505	0.5075	
* Manganese, Total	6/1/21 09:55	6/2/21 17:52		5.075	1.53	mg/L	0.000340	0.001015	
* Selenium, Total	6/1/21 09:55	6/2/21 13:29		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	6/1/21 09:55	6/2/21 13:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8			Analyst: DLJ						
* Manganese, Dissolved	6/1/21 06:55	6/1/21 13:51		5.075	1.67	mg/L	0.000340	0.001015	
Analytical Method: EPA 245.1			Analyst: CRB						
* Mercury, Total by CVAA	5/19/21 10:43	5/19/21 14:40		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B			Analyst: JAG						
Alkalinity, Total as CaCO3	5/17/21 11:00	5/17/21 11:20		1	336	mg/L		0.1	
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	5/14/21 15:15	5/19/21 13:20		1	391	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-10

Location Code: WMWBARAP
Collected: 5/11/21 08:20
Customer ID:
Submittal Date: 5/13/21 13:56

Laboratory ID Number: BB08940

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	5/17/21 11:00	5/17/21 11:20		1	336	mg/L			
Carbonate Alkalinity, (calc.)	5/17/21 11:00	5/17/21 11:20		1	0.09	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	5/17/21 10:25	5/17/21 10:25		2	27.3	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	5/17/21 12:31	5/17/21 12:31		1	0.105	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/19/21 15:00	5/19/21 15:00		1	13.2	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	5/11/21 08:15	5/11/21 08:15			669.59	uS/cm			FA
pH	5/11/21 08:15	5/11/21 08:15			6.40	SU			FA
Temperature	5/11/21 08:15	5/11/21 08:15			21.23	C			FA
Turbidity	5/11/21 08:15	5/11/21 08:15			1.5	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/11/21 08:20

Customer ID:

Delivery Date: 5/13/21 13:56

Description: Barry Ash Pond - MW-10

Laboratory ID Number: BB08940

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB09280	Antimony, Total	mg/L	0.000101	0.00100	0.10	0.0931	0.0932	0.0969	0.0850 to 0.115	93.1	70.0 to 130	0.0552	20.0
BB09280	Magnesium, Total	mg/L	0.000787	0.0462	5.00	5.79	5.86	5.13	4.25 to 5.75	103	70.0 to 130	1.09	20.0
BB09280	Manganese, Total	mg/L	-0.0000455	0.000147	0.10	0.134	0.135	0.102	0.0850 to 0.115	97.2	70.0 to 130	1.05	20.0
BB09280	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.101	0.0975	0.0916	0.0850 to 0.115	99.4	70.0 to 130	3.44	20.0
BB09281	Iron, Dissolved	mg/L	-0.000111	0.0176	0.2	0.246	0.242	0.204	0.170 to 0.230	103	70.0 to 130	1.33	20.0
BB09280	Barium, Total	mg/L	-0.0000216	0.000200	0.10	0.111	0.117	0.105	0.0850 to 0.115	102	70.0 to 130	5.43	20.0
BB09280	Lead, Total	mg/L	0.0000023	0.000147	0.10	0.108	0.106	0.106	0.0850 to 0.115	108	70.0 to 130	1.46	20.0
BB09280	Arsenic, Total	mg/L	-0.0000014	0.000147	0.10	0.103	0.104	0.108	0.0850 to 0.115	102	70.0 to 130	0.123	20.0
BB09280	Boron, Total	mg/L	0.00744	0.0650	1.00	1.32	1.33	1.01	0.850 to 1.15	100	70.0 to 130	0.590	20.0
BB08942	Mercury, Total by CVAA	mg/L	0.0000543	0.000500	0.004	0.00420	0.00422	0.00438	0.00340 to 0.00460	105	70.0 to 130	0.475	20.0
BB09280	Cobalt, Total	mg/L	-0.0000064	0.000147	0.10	0.0990	0.0989	0.0988	0.0850 to 0.115	98.8	70.0 to 130	0.149	20.0
BB09280	Beryllium, Total	mg/L	0.0000218	0.000880	0.10	0.0965	0.0982	0.105	0.0850 to 0.115	96.5	70.0 to 130	1.79	20.0
BB09280	Potassium, Total	mg/L	-0.00760	0.367	10.0	11.2	11.2	10.3	8.50 to 11.5	95.1	70.0 to 130	0.390	20.0
BB09280	Lithium, Total	mg/L	0.000146	0.0154	0.20	0.229	0.231	0.199	0.170 to 0.230	115	70.0 to 130	0.870	20.0
BB09280	Sodium, Total	mg/L	0.00332	0.0660	5.00	150	150	5.15	4.25 to 5.75	96.1	70.0 to 130	0.0675	20.0
BB09280	Calcium, Total	mg/L	0.0516	0.152	5.00	6.52	6.61	5.17	4.25 to 5.75	104	70.0 to 130	1.45	20.0
BB09280	Iron, Total	mg/L	0.00139	0.0176	0.2	0.991	1.01	0.204	0.170 to 0.230	110	70.0 to 130	1.36	20.0
BB09280	Thallium, Total	mg/L	-0.0000022	0.000147	0.10	0.103	0.106	0.102	0.0850 to 0.115	103	70.0 to 130	2.61	20.0
BB09281	Manganese, Dissolved	mg/L	0.0000025	0.000147	0.10	0.107	0.106	0.103	0.0850 to 0.115	101	70.0 to 130	0.885	20.0
BB09280	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0993	0.0996	0.0944	0.0850 to 0.115	99.3	70.0 to 130	0.287	20.0
BB09280	Chromium, Total	mg/L	-0.0000409	0.000440	0.10	0.100	0.100	0.0993	0.0850 to 0.115	98.4	70.0 to 130	0.261	20.0
BB09280	Selenium, Total	mg/L	-0.0000201	0.00100	0.10	0.0992	0.0989	0.102	0.0850 to 0.115	99.2	70.0 to 130	0.354	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/11/21 08:20

Customer ID:

Delivery Date: 5/13/21 13:56

Description: Barry Ash Pond - MW-10

Laboratory ID Number: BB08940

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB08942	Chloride	mg/L	-0.048	1.00	100	179	79.1	9.76	9.00 to 11.0	99.0	80.0 to 120	1.13	20.0
BB08942	Sulfate	mg/L	-0.307	1.00	20.0	26.9	7.86	20.0	18.0 to 22.0	96.8	80.0 to 120	4.16	20.0
BB08942	Fluoride	mg/L	0.0212	0.100	2.50	2.79	0.208	2.52	2.25 to 2.75	103	80.0 to 120	2.84	20.0
BB08940	Solids, Dissolved	mg/L	1.00	25.0			387	56.0	40.0 to 60.0			0.514	5.00
BB08942	Alkalinity, Total as CaCO3	mg/L					120	51.7	45.0 to 55.0			2.53	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-8

Location Code: WMWBARAP
Collected: 5/11/21 08:04
Customer ID:
Submittal Date: 5/13/21 13:56

Laboratory ID Number: BB08941

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	6/1/21 09:55	6/4/21 09:04		1.015	0.971	mg/L	0.030000	0.1015	
* Calcium, Total	6/1/21 09:55	6/4/21 09:04		1.015	33.0	mg/L	0.070035	0.406	
* Iron, Total	6/1/21 09:55	6/4/21 15:00		101.5	74.7	mg/L	0.8120	4.06	
* Lithium, Total	6/1/21 09:55	6/4/21 09:04		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/1/21 09:55	6/4/21 09:04		1.015	10.2	mg/L	0.021315	0.406	
* Sodium, Total	6/1/21 09:55	6/4/21 09:04		1.015	20.2	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	6/1/21 06:55	6/2/21 16:20		101.5	77.3	mg/L	0.8120	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	6/1/21 09:55	6/2/21 13:32		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	6/1/21 09:55	6/2/21 13:32		1.015	0.0659	mg/L	0.000068	0.000203	
* Barium, Total	6/1/21 09:55	6/2/21 13:32		1.015	0.147	mg/L	0.000101	0.000203	
* Beryllium, Total	6/1/21 09:55	6/2/21 13:32		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/21 09:55	6/2/21 13:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/21 09:55	6/2/21 13:32		1.015	0.00156	mg/L	0.000203	0.001015	
* Cobalt, Total	6/1/21 09:55	6/2/21 13:32		1.015	0.000778	mg/L	0.000068	0.000203	
* Lead, Total	6/1/21 09:55	6/2/21 13:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	6/1/21 09:55	6/2/21 13:32		1.015	0.000321	mg/L	0.000068	0.000203	
* Potassium, Total	6/1/21 09:55	6/2/21 13:32		1.015	0.918	mg/L	0.169505	0.5075	
* Manganese, Total	6/1/21 09:55	6/2/21 17:56		5.075	1.70	mg/L	0.000340	0.001015	
* Selenium, Total	6/1/21 09:55	6/2/21 13:32		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	6/1/21 09:55	6/2/21 13:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	6/1/21 06:55	6/1/21 13:55		5.075	1.75	mg/L	0.000340	0.001015	
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	5/19/21 10:43	5/19/21 14:42		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	5/17/21 11:00	5/17/21 11:20		1	232	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	5/14/21 15:15	5/19/21 13:20		1	318	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-8

Location Code: WMWBARAP
Collected: 5/11/21 08:04
Customer ID:
Submittal Date: 5/13/21 13:56

Laboratory ID Number: BB08941

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	5/17/21 11:00	5/17/21 11:20		1	232	mg/L			
Carbonate Alkalinity, (calc.)	5/17/21 11:00	5/17/21 11:20		1	0.29	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	5/17/21 10:26	5/17/21 10:26		2	21.9	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	5/17/21 12:32	5/17/21 12:32		1	0.0940	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/19/21 15:06	5/19/21 15:06		2	35.4	mg/L	1.00	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	5/11/21 08:01	5/11/21 08:01			516.29	uS/cm			FA
pH	5/11/21 08:01	5/11/21 08:01			6.25	SU			FA
Temperature	5/11/21 08:01	5/11/21 08:01			20.67	C			FA
Turbidity	5/11/21 08:01	5/11/21 08:01			4.91	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/11/21 08:04

Customer ID:

Delivery Date: 5/13/21 13:56

Description: Barry Ash Pond - MW-8

Laboratory ID Number: BB08941

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB09280	Antimony, Total	mg/L	0.000101	0.00100	0.10	0.0931	0.0932	0.0969	0.0850 to 0.115	93.1	70.0 to 130	0.0552	20.0
BB08942	Mercury, Total by CVAA	mg/L	0.0000543	0.000500	0.004	0.00420	0.00422	0.00438	0.00340 to 0.00460	105	70.0 to 130	0.475	20.0
BB09280	Cobalt, Total	mg/L	-0.0000064	0.000147	0.10	0.0990	0.0989	0.0988	0.0850 to 0.115	98.8	70.0 to 130	0.149	20.0
BB09280	Magnesium, Total	mg/L	0.000787	0.0462	5.00	5.79	5.86	5.13	4.25 to 5.75	103	70.0 to 130	1.09	20.0
BB09280	Manganese, Total	mg/L	-0.0000455	0.000147	0.10	0.134	0.135	0.102	0.0850 to 0.115	97.2	70.0 to 130	1.05	20.0
BB09280	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.101	0.0975	0.0916	0.0850 to 0.115	99.4	70.0 to 130	3.44	20.0
BB09281	Iron, Dissolved	mg/L	-0.000111	0.0176	0.2	0.246	0.242	0.204	0.170 to 0.230	103	70.0 to 130	1.33	20.0
BB09280	Calcium, Total	mg/L	0.0516	0.152	5.00	6.52	6.61	5.17	4.25 to 5.75	104	70.0 to 130	1.45	20.0
BB09280	Iron, Total	mg/L	0.00139	0.0176	0.2	0.991	1.01	0.204	0.170 to 0.230	110	70.0 to 130	1.36	20.0
BB09280	Thallium, Total	mg/L	-0.0000022	0.000147	0.10	0.103	0.106	0.102	0.0850 to 0.115	103	70.0 to 130	2.61	20.0
BB09281	Manganese, Dissolved	mg/L	0.0000025	0.000147	0.10	0.107	0.106	0.103	0.0850 to 0.115	101	70.0 to 130	0.885	20.0
BB09280	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0993	0.0996	0.0944	0.0850 to 0.115	99.3	70.0 to 130	0.287	20.0
BB09280	Chromium, Total	mg/L	-0.0000409	0.000440	0.10	0.100	0.100	0.0993	0.0850 to 0.115	98.4	70.0 to 130	0.261	20.0
BB09280	Selenium, Total	mg/L	-0.0000201	0.00100	0.10	0.0992	0.0989	0.102	0.0850 to 0.115	99.2	70.0 to 130	0.354	20.0
BB09280	Beryllium, Total	mg/L	0.0000218	0.000880	0.10	0.0965	0.0982	0.105	0.0850 to 0.115	96.5	70.0 to 130	1.79	20.0
BB09280	Potassium, Total	mg/L	-0.00760	0.367	10.0	11.2	11.2	10.3	8.50 to 11.5	95.1	70.0 to 130	0.390	20.0
BB09280	Lithium, Total	mg/L	0.000146	0.0154	0.20	0.229	0.231	0.199	0.170 to 0.230	115	70.0 to 130	0.870	20.0
BB09280	Sodium, Total	mg/L	0.00332	0.0660	5.00	150	150	5.15	4.25 to 5.75	96.1	70.0 to 130	0.0675	20.0
BB09280	Arsenic, Total	mg/L	-0.0000014	0.000147	0.10	0.103	0.104	0.108	0.0850 to 0.115	102	70.0 to 130	0.123	20.0
BB09280	Boron, Total	mg/L	0.00744	0.0650	1.00	1.32	1.33	1.01	0.850 to 1.15	100	70.0 to 130	0.590	20.0
BB09280	Barium, Total	mg/L	-0.0000216	0.000200	0.10	0.111	0.117	0.105	0.0850 to 0.115	102	70.0 to 130	5.43	20.0
BB09280	Lead, Total	mg/L	0.0000023	0.000147	0.10	0.108	0.106	0.106	0.0850 to 0.115	108	70.0 to 130	1.46	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/11/21 08:04

Customer ID:

Delivery Date: 5/13/21 13:56

Description: Barry Ash Pond - MW-8

Laboratory ID Number: BB08941

Sample	Analysis	Units	MB	MB			Sample		Standard		Rec		Prec	Limit
				Limit	Spike	MS	Duplicate	Standard	Limit	Rec	Limit			
BB08942	Chloride	mg/L	-0.048	1.00	100	179	79.1	9.76	9.00 to 11.0	99.0	80.0 to 120	1.13	20.0	
BB08942	Sulfate	mg/L	-0.307	1.00	20.0	26.9	7.86	20.0	18.0 to 22.0	96.8	80.0 to 120	4.16	20.0	
BB08942	Fluoride	mg/L	0.0212	0.100	2.50	2.79	0.208	2.52	2.25 to 2.75	103	80.0 to 120	2.84	20.0	
BB08940	Solids, Dissolved	mg/L	1.00	25.0			387	56.0	40.0 to 60.0			0.514	5.00	
BB08942	Alkalinity, Total as CaCO3	mg/L					120	51.7	45.0 to 55.0			2.53	10.0	

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-15

Location Code: WMWBARAP
Collected: 5/11/21 11:35
Customer ID:
Submittal Date: 5/13/21 13:56

Laboratory ID Number: BB08942

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA			Preparation Method: EPA 1638			
* Boron, Total	6/1/21 09:55	6/4/21 09:08		1.015	0.109	mg/L	0.030000	0.1015	
* Calcium, Total	6/1/21 09:55	6/4/21 09:08		1.015	6.98	mg/L	0.070035	0.406	
* Iron, Total	6/1/21 09:55	6/4/21 15:03		101.5	102	mg/L	0.8120	4.06	
* Lithium, Total	6/1/21 09:55	6/4/21 09:08		1.015	0.00788	mg/L	0.007105	0.01999956	J
* Magnesium, Total	6/1/21 09:55	6/4/21 09:08		1.015	5.16	mg/L	0.021315	0.406	
* Sodium, Total	6/1/21 09:55	6/4/21 09:08		1.015	34.1	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA						
* Iron, Dissolved	6/1/21 06:55	6/2/21 14:06		101.5	103	mg/L	0.8120	4.06	
Analytical Method: EPA 200.8			Analyst: DLJ			Preparation Method: EPA 1638			
* Antimony, Total	6/1/21 09:55	6/2/21 13:36		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	6/1/21 09:55	6/2/21 13:36		1.015	0.0184	mg/L	0.000068	0.000203	
* Barium, Total	6/1/21 09:55	6/2/21 13:36		1.015	0.0762	mg/L	0.000101	0.000203	
* Beryllium, Total	6/1/21 09:55	6/2/21 13:36		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/21 09:55	6/2/21 13:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/21 09:55	6/2/21 13:36		1.015	0.000581	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/1/21 09:55	6/2/21 13:36		1.015	0.0349	mg/L	0.000068	0.000203	
* Lead, Total	6/1/21 09:55	6/2/21 13:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	6/1/21 09:55	6/2/21 13:36		1.015	0.00171	mg/L	0.000068	0.000203	
* Potassium, Total	6/1/21 09:55	6/2/21 13:36		1.015	2.85	mg/L	0.169505	0.5075	
* Manganese, Total	6/1/21 09:55	6/2/21 13:36		1.015	0.734	mg/L	0.000068	0.000203	
* Selenium, Total	6/1/21 09:55	6/2/21 13:36		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	6/1/21 09:55	6/2/21 13:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8			Analyst: DLJ						
* Manganese, Dissolved	6/1/21 06:55	6/1/21 09:42		1.015	0.717	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1			Analyst: CRB						
* Mercury, Total by CVAA	5/19/21 10:43	5/19/21 14:45		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B			Analyst: JAG						
Alkalinity, Total as CaCO3	5/17/21 11:00	5/17/21 11:20		1	117	mg/L		0.1	
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	5/14/21 15:15	5/19/21 13:20		1	279	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-15

Location Code: WMWBARAP
Collected: 5/11/21 11:35
Customer ID:
Submittal Date: 5/13/21 13:56

Laboratory ID Number: BB08942

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	5/17/21 11:00	5/17/21 11:20		1	117	mg/L			
Carbonate Alkalinity, (calc.)	5/17/21 11:00	5/17/21 11:20		1	0.04	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	5/17/21 10:27	5/17/21 10:27		10	80.0	mg/L	5.00	10	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	5/17/21 12:33	5/17/21 12:33		1	0.214	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/19/21 15:02	5/19/21 15:02		1	7.54	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	5/11/21 11:33	5/11/21 11:33			558.35	uS/cm			FA
pH	5/11/21 11:33	5/11/21 11:33			6.76	SU			FA
Temperature	5/11/21 11:33	5/11/21 11:33			21.05	C			FA
Turbidity	5/11/21 11:33	5/11/21 11:33			9.37	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/11/21 11:35

Customer ID:

Delivery Date: 5/13/21 13:56

Description: Barry Ash Pond - MW-15

Laboratory ID Number: BB08942

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB09280	Magnesium, Total	mg/L	0.000787	0.0462	5.00	5.79	5.86	5.13	4.25 to 5.75	103	70.0 to 130	1.09	20.0
BB09280	Manganese, Total	mg/L	-0.0000455	0.000147	0.10	0.134	0.135	0.102	0.0850 to 0.115	97.2	70.0 to 130	1.05	20.0
BB09280	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.101	0.0975	0.0916	0.0850 to 0.115	99.4	70.0 to 130	3.44	20.0
BB09281	Iron, Dissolved	mg/L	-0.000111	0.0176	0.2	0.246	0.242	0.204	0.170 to 0.230	103	70.0 to 130	1.33	20.0
BB09280	Antimony, Total	mg/L	0.000101	0.00100	0.10	0.0931	0.0932	0.0969	0.0850 to 0.115	93.1	70.0 to 130	0.0552	20.0
BB08942	Mercury, Total by CVAA	mg/L	0.0000543	0.000500	0.004	0.00420	0.00422	0.00438	0.00340 to 0.00460	105	70.0 to 130	0.475	20.0
BB09280	Cobalt, Total	mg/L	-0.0000064	0.000147	0.10	0.0990	0.0989	0.0988	0.0850 to 0.115	98.8	70.0 to 130	0.149	20.0
BB09280	Barium, Total	mg/L	-0.0000216	0.000200	0.10	0.111	0.117	0.105	0.0850 to 0.115	102	70.0 to 130	5.43	20.0
BB09280	Lead, Total	mg/L	0.0000023	0.000147	0.10	0.108	0.106	0.106	0.0850 to 0.115	108	70.0 to 130	1.46	20.0
BB09280	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0993	0.0996	0.0944	0.0850 to 0.115	99.3	70.0 to 130	0.287	20.0
BB09280	Chromium, Total	mg/L	-0.0000409	0.000440	0.10	0.100	0.100	0.0993	0.0850 to 0.115	98.4	70.0 to 130	0.261	20.0
BB09280	Selenium, Total	mg/L	-0.0000201	0.00100	0.10	0.0992	0.0989	0.102	0.0850 to 0.115	99.2	70.0 to 130	0.354	20.0
BB09280	Beryllium, Total	mg/L	0.0000218	0.000880	0.10	0.0965	0.0982	0.105	0.0850 to 0.115	96.5	70.0 to 130	1.79	20.0
BB09280	Potassium, Total	mg/L	-0.00760	0.367	10.0	11.2	11.2	10.3	8.50 to 11.5	95.1	70.0 to 130	0.390	20.0
BB09280	Lithium, Total	mg/L	0.000146	0.0154	0.20	0.229	0.231	0.199	0.170 to 0.230	115	70.0 to 130	0.870	20.0
BB09280	Sodium, Total	mg/L	0.00332	0.0660	5.00	150	150	5.15	4.25 to 5.75	96.1	70.0 to 130	0.0675	20.0
BB09280	Arsenic, Total	mg/L	-0.0000014	0.000147	0.10	0.103	0.104	0.108	0.0850 to 0.115	102	70.0 to 130	0.123	20.0
BB09280	Boron, Total	mg/L	0.00744	0.0650	1.00	1.32	1.33	1.01	0.850 to 1.15	100	70.0 to 130	0.590	20.0
BB09280	Calcium, Total	mg/L	0.0516	0.152	5.00	6.52	6.61	5.17	4.25 to 5.75	104	70.0 to 130	1.45	20.0
BB09280	Iron, Total	mg/L	0.00139	0.0176	0.2	0.991	1.01	0.204	0.170 to 0.230	110	70.0 to 130	1.36	20.0
BB09280	Thallium, Total	mg/L	-0.0000022	0.000147	0.10	0.103	0.106	0.102	0.0850 to 0.115	103	70.0 to 130	2.61	20.0
BB09281	Manganese, Dissolved	mg/L	0.0000025	0.000147	0.10	0.107	0.106	0.103	0.0850 to 0.115	101	70.0 to 130	0.885	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/11/21 11:35

Customer ID:

Delivery Date: 5/13/21 13:56

Description: Barry Ash Pond - MW-15

Laboratory ID Number: BB08942

Sample	Analysis	Units	MB	MB			Sample		Standard		Rec			Prec Limit
				Limit	Spike	MS	Duplicate	Standard	Limit	Rec	Limit	Prec		
BB08942	Chloride	mg/L	-0.048	1.00	100	179	79.1	9.76	9.00 to 11.0	99.0	80.0 to 120	1.13	20.0	
BB08942	Sulfate	mg/L	-0.307	1.00	20.0	26.9	7.86	20.0	18.0 to 22.0	96.8	80.0 to 120	4.16	20.0	
BB08942	Fluoride	mg/L	0.0212	0.100	2.50	2.79	0.208	2.52	2.25 to 2.75	103	80.0 to 120	2.84	20.0	
BB08940	Solids, Dissolved	mg/L	1.00	25.0			387	56.0	40.0 to 60.0			0.514	5.00	
BB08942	Alkalinity, Total as CaCO3	mg/L					120	51.7	45.0 to 55.0			2.53	10.0	

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-17V

Location Code: WMWBARAP
Collected: 5/18/21 08:32
Customer ID:
Submittal Date: 5/19/21 13:53

Laboratory ID Number: BB09274

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	6/1/21 09:55	6/4/21 09:11		1.015	0.124	mg/L	0.030000	0.1015	
* Calcium, Total	6/1/21 09:55	6/4/21 09:11		1.015	15.0	mg/L	0.070035	0.406	
* Iron, Total	6/1/21 09:55	6/4/21 09:11		1.015	1.39	mg/L	0.008120	0.0406	
* Lithium, Total	6/1/21 09:55	6/4/21 09:11		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/1/21 09:55	6/4/21 09:11		1.015	8.59	mg/L	0.021315	0.406	
* Sodium, Total	6/1/21 09:55	6/4/21 15:07		101.5	138	mg/L	3.045	40.6	
Analytical Method: EPA 200.7			Analyst: RDA						
* Iron, Dissolved	6/1/21 06:55	6/2/21 10:46		1.015	0.943	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	6/1/21 09:55	6/2/21 13:40		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	6/1/21 09:55	6/2/21 13:40		1.015	0.00546	mg/L	0.000068	0.000203	
* Barium, Total	6/1/21 09:55	6/2/21 13:40		1.015	0.255	mg/L	0.000101	0.000203	
* Beryllium, Total	6/1/21 09:55	6/2/21 13:40		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/21 09:55	6/2/21 13:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/21 09:55	6/2/21 13:40		1.015	0.000973	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/1/21 09:55	6/2/21 13:40		1.015	0.0197	mg/L	0.000068	0.000203	
* Lead, Total	6/1/21 09:55	6/2/21 13:40		1.015	0.000137	mg/L	0.000068	0.000203	J
* Molybdenum, Total	6/1/21 09:55	6/2/21 13:40		1.015	0.000571	mg/L	0.000068	0.000203	
* Potassium, Total	6/1/21 09:55	6/2/21 13:40		1.015	2.67	mg/L	0.169505	0.5075	
* Manganese, Total	6/1/21 09:55	6/2/21 13:40		1.015	0.577	mg/L	0.000068	0.000203	
* Selenium, Total	6/1/21 09:55	6/2/21 13:40		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	6/1/21 09:55	6/2/21 13:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8			Analyst: DLJ						
* Manganese, Dissolved	6/1/21 06:55	6/1/21 09:46		1.015	0.552	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	5/27/21 12:09	5/28/21 11:55		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B			Analyst: JAG						
Alkalinity, Total as CaCO3	5/27/21 11:13	5/27/21 12:22		1	78.2	mg/L		0.1	
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	5/20/21 16:30	5/24/21 08:30		1	438	mg/L		50	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-17V

Location Code: WMWBARAP
Collected: 5/18/21 08:32
Customer ID:
Submittal Date: 5/19/21 13:53

Laboratory ID Number: BB09274

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	5/27/21 11:13	5/27/21 12:22		1	78.1	mg/L			
Carbonate Alkalinity, (calc.)	5/27/21 11:13	5/27/21 12:22		1	0.03	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	6/2/21 15:42	6/2/21 15:42		16	225	mg/L	8.00	16	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/4/21 09:14	6/4/21 09:14		1	0.160	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/19/21 15:59	5/19/21 15:59		1	17.4	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	5/18/21 08:29	5/18/21 08:29			833.21	uS/cm			FA
pH	5/18/21 08:29	5/18/21 08:29			6.55	SU			FA
Temperature	5/18/21 08:29	5/18/21 08:29			21.18	C			FA
Turbidity	5/18/21 08:29	5/18/21 08:29			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.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/18/21 08:32

Customer ID:

Delivery Date: 5/19/21 13:53

Description: Barry Ash Pond - MW-17V

Laboratory ID Number: BB09274

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB09280	Cobalt, Total	mg/L	-0.0000064	0.000147	0.10	0.0990	0.0989	0.0988	0.0850 to 0.115	98.8	70.0 to 130	0.149	20.0
BB09280	Barium, Total	mg/L	-0.0000216	0.000200	0.10	0.111	0.117	0.105	0.0850 to 0.115	102	70.0 to 130	5.43	20.0
BB09280	Lead, Total	mg/L	0.0000023	0.000147	0.10	0.108	0.106	0.106	0.0850 to 0.115	108	70.0 to 130	1.46	20.0
BB09280	Arsenic, Total	mg/L	-0.0000014	0.000147	0.10	0.103	0.104	0.108	0.0850 to 0.115	102	70.0 to 130	0.123	20.0
BB09280	Boron, Total	mg/L	0.00744	0.0650	1.00	1.32	1.33	1.01	0.850 to 1.15	100	70.0 to 130	0.590	20.0
BB09280	Antimony, Total	mg/L	0.000101	0.00100	0.10	0.0931	0.0932	0.0969	0.0850 to 0.115	93.1	70.0 to 130	0.0552	20.0
BB09280	Magnesium, Total	mg/L	0.000787	0.0462	5.00	5.79	5.86	5.13	4.25 to 5.75	103	70.0 to 130	1.09	20.0
BB09280	Manganese, Total	mg/L	-0.0000455	0.000147	0.10	0.134	0.135	0.102	0.0850 to 0.115	97.2	70.0 to 130	1.05	20.0
BB09280	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.101	0.0975	0.0916	0.0850 to 0.115	99.4	70.0 to 130	3.44	20.0
BB09281	Iron, Dissolved	mg/L	-0.000111	0.0176	0.2	0.246	0.242	0.204	0.170 to 0.230	103	70.0 to 130	1.33	20.0
BB09280	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0993	0.0996	0.0944	0.0850 to 0.115	99.3	70.0 to 130	0.287	20.0
BB09280	Chromium, Total	mg/L	-0.0000409	0.000440	0.10	0.100	0.100	0.0993	0.0850 to 0.115	98.4	70.0 to 130	0.261	20.0
BB09280	Selenium, Total	mg/L	-0.0000201	0.00100	0.10	0.0992	0.0989	0.102	0.0850 to 0.115	99.2	70.0 to 130	0.354	20.0
BB09280	Beryllium, Total	mg/L	0.0000218	0.000880	0.10	0.0965	0.0982	0.105	0.0850 to 0.115	96.5	70.0 to 130	1.79	20.0
BB09280	Potassium, Total	mg/L	-0.00760	0.367	10.0	11.2	11.2	10.3	8.50 to 11.5	95.1	70.0 to 130	0.390	20.0
BB09280	Lithium, Total	mg/L	0.000146	0.0154	0.20	0.229	0.231	0.199	0.170 to 0.230	115	70.0 to 130	0.870	20.0
BB09280	Sodium, Total	mg/L	0.00332	0.0660	5.00	150	150	5.15	4.25 to 5.75	96.1	70.0 to 130	0.0675	20.0
BB09280	Calcium, Total	mg/L	0.0516	0.152	5.00	6.52	6.61	5.17	4.25 to 5.75	104	70.0 to 130	1.45	20.0
BB09280	Iron, Total	mg/L	0.00139	0.0176	0.2	0.991	1.01	0.204	0.170 to 0.230	110	70.0 to 130	1.36	20.0
BB09280	Thallium, Total	mg/L	-0.0000022	0.000147	0.10	0.103	0.106	0.102	0.0850 to 0.115	103	70.0 to 130	2.61	20.0
BB09281	Manganese, Dissolved	mg/L	0.0000025	0.000147	0.10	0.107	0.106	0.103	0.0850 to 0.115	101	70.0 to 130	0.885	20.0
BB09283	Mercury, Total by CVAA	mg/L	0.0000487	0.000500	0.004	0.00421	0.00422	0.00407	0.00340 to 0.00460	105	70.0 to 130	0.142	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/18/21 08:32

Customer ID:

Delivery Date: 5/19/21 13:53

Description: Barry Ash Pond - MW-17V

Laboratory ID Number: BB09274

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB09283	Fluoride	mg/L	0.0236	0.100	2.50	2.57	0.0472	2.63	2.25 to 2.75	103	80.0 to 120	0.00	20.0
BB09283	Chloride	mg/L	-0.055	1.00	100	197	81.2	10.0	9.00 to 11.0	118	80.0 to 120	2.12	20.0
BB09283	Sulfate	mg/L	-0.0687	1.00	20.0	34.8	16.0	19.6	18.0 to 22.0	94.0	80.0 to 120	0.00	20.0
BB09283	Solids, Dissolved	mg/L	0.0000	25.0			190	51.0	40.0 to 60.0			0.264	5.00
BB09406	Alkalinity, Total as CaCO3	mg/L					273	51.6	45.0 to 55.0			2.17	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond Field Blank-2

Location Code: WMWBARAPFB

Collected: 5/18/21 08:50

Customer ID:

Submittal Date: 5/19/21 13:53

Laboratory ID Number: BB09275

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	6/1/21 09:55	6/4/21 09:14		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	6/1/21 09:55	6/4/21 09:14		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	6/1/21 09:55	6/4/21 09:14		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	6/1/21 09:55	6/4/21 09:14		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/1/21 09:55	6/4/21 09:14		1.015	Not Detected	mg/L	0.021315	0.406	U
* Sodium, Total	6/1/21 09:55	6/4/21 09:14		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	6/1/21 09:55	6/2/21 13:43		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	6/1/21 09:55	6/2/21 13:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	6/1/21 09:55	6/2/21 13:43		1.015	Not Detected	mg/L	0.000101	0.000203	U
* Beryllium, Total	6/1/21 09:55	6/2/21 13:43		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/21 09:55	6/2/21 13:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/21 09:55	6/2/21 13:43		1.015	0.000321	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/1/21 09:55	6/2/21 13:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	6/1/21 09:55	6/2/21 13:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	6/1/21 09:55	6/2/21 13:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	6/1/21 09:55	6/2/21 13:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	6/1/21 09:55	6/2/21 13:43		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	6/1/21 09:55	6/2/21 13:43		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	6/1/21 09:55	6/2/21 13:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	5/27/21 12:09	5/28/21 11:57		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	5/20/21 16:30	5/24/21 08:30		1	Not Detected	mg/L		25	U
Analytical Method: SM4500CI E			Analyst: JCC						
* Chloride	6/2/21 15:31	6/2/21 15:31		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	6/4/21 09:16	6/4/21 09:16		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011			Analyst: JCC						
* Sulfate	5/19/21 16:00	5/19/21 16:00		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Batch QC Summary

Customer Account: WMWBARAPFB

Sample Date: 5/18/21 08:50

Customer ID:

Delivery Date: 5/19/21 13:53

Description: Barry Ash Pond Field Blank-2

Laboratory ID Number: BB09275

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB09280	Cobalt, Total	mg/L	-0.0000064	0.000147	0.10	0.0990	0.0989	0.0988	0.0850 to 0.115	98.8	70.0 to 130	0.149	20.0
BB09280	Antimony, Total	mg/L	0.000101	0.00100	0.10	0.0931	0.0932	0.0969	0.0850 to 0.115	93.1	70.0 to 130	0.0552	20.0
BB09280	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0993	0.0996	0.0944	0.0850 to 0.115	99.3	70.0 to 130	0.287	20.0
BB09280	Chromium, Total	mg/L	-0.0000409	0.000440	0.10	0.100	0.100	0.0993	0.0850 to 0.115	98.4	70.0 to 130	0.261	20.0
BB09280	Selenium, Total	mg/L	-0.0000201	0.00100	0.10	0.0992	0.0989	0.102	0.0850 to 0.115	99.2	70.0 to 130	0.354	20.0
BB09280	Magnesium, Total	mg/L	0.000787	0.0462	5.00	5.79	5.86	5.13	4.25 to 5.75	103	70.0 to 130	1.09	20.0
BB09280	Manganese, Total	mg/L	-0.0000455	0.000147	0.10	0.134	0.135	0.102	0.0850 to 0.115	97.2	70.0 to 130	1.05	20.0
BB09280	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.101	0.0975	0.0916	0.0850 to 0.115	99.4	70.0 to 130	3.44	20.0
BB09280	Beryllium, Total	mg/L	0.0000218	0.000880	0.10	0.0965	0.0982	0.105	0.0850 to 0.115	96.5	70.0 to 130	1.79	20.0
BB09280	Potassium, Total	mg/L	-0.00760	0.367	10.0	11.2	11.2	10.3	8.50 to 11.5	95.1	70.0 to 130	0.390	20.0
BB09280	Lithium, Total	mg/L	0.000146	0.0154	0.20	0.229	0.231	0.199	0.170 to 0.230	115	70.0 to 130	0.870	20.0
BB09280	Sodium, Total	mg/L	0.00332	0.0660	5.00	150	150	5.15	4.25 to 5.75	96.1	70.0 to 130	0.0675	20.0
BB09280	Barium, Total	mg/L	-0.0000216	0.000200	0.10	0.111	0.117	0.105	0.0850 to 0.115	102	70.0 to 130	5.43	20.0
BB09280	Lead, Total	mg/L	0.0000023	0.000147	0.10	0.108	0.106	0.106	0.0850 to 0.115	108	70.0 to 130	1.46	20.0
BB09280	Calcium, Total	mg/L	0.0516	0.152	5.00	6.52	6.61	5.17	4.25 to 5.75	104	70.0 to 130	1.45	20.0
BB09280	Iron, Total	mg/L	0.00139	0.0176	0.2	0.991	1.01	0.204	0.170 to 0.230	110	70.0 to 130	1.36	20.0
BB09280	Thallium, Total	mg/L	-0.0000022	0.000147	0.10	0.103	0.106	0.102	0.0850 to 0.115	103	70.0 to 130	2.61	20.0
BB09283	Mercury, Total by CVAA	mg/L	0.0000487	0.000500	0.004	0.00421	0.00422	0.00407	0.00340 to 0.00460	105	70.0 to 130	0.142	20.0
BB09280	Arsenic, Total	mg/L	-0.0000014	0.000147	0.10	0.103	0.104	0.108	0.0850 to 0.115	102	70.0 to 130	0.123	20.0
BB09280	Boron, Total	mg/L	0.00744	0.0650	1.00	1.32	1.33	1.01	0.850 to 1.15	100	70.0 to 130	0.590	20.0

Comments:

Batch QC Summary

Customer Account: WMWBARAPFB

Sample Date: 5/18/21 08:50

Customer ID:

Delivery Date: 5/19/21 13:53

Description: Barry Ash Pond Field Blank-2

Laboratory ID Number: BB09275

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BB09283	Solids, Dissolved	mg/L	0.0000	25.0			190	51.0	40.0 to 60.0			0.264	5.00
BB09283	Fluoride	mg/L	0.0236	0.100	2.50	2.57	0.0472	2.63	2.25 to 2.75	103	80.0 to 120	0.00	20.0
BB09283	Chloride	mg/L	-0.055	1.00	100	197	81.2	10.0	9.00 to 11.0	118	80.0 to 120	2.12	20.0
BB09283	Sulfate	mg/L	-0.0687	1.00	20.0	34.8	16.0	19.6	18.0 to 22.0	94.0	80.0 to 120	0.00	20.0

Comments:

Certificate Of Analysis

Description: Barry Ash Pond - MW-8V

Location Code: WMWBARAP
Collected: 5/18/21 11:35
Customer ID:
Submittal Date: 5/19/21 13:53

Laboratory ID Number: BB09276

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	6/1/21 09:55	6/4/21 09:18		1.015	0.247	mg/L	0.030000	0.1015	
* Calcium, Total	6/1/21 09:55	6/4/21 09:18		1.015	26.4	mg/L	0.070035	0.406	
* Iron, Total	6/1/21 09:55	6/4/21 15:10		101.5	72.1	mg/L	0.8120	4.06	
* Lithium, Total	6/1/21 09:55	6/4/21 09:18		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/1/21 09:55	6/4/21 09:18		1.015	14.2	mg/L	0.021315	0.406	
* Sodium, Total	6/1/21 09:55	6/4/21 09:18		1.015	37.6	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	6/1/21 06:55	6/2/21 14:10		101.5	70.4	mg/L	0.8120	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	6/1/21 09:55	6/2/21 13:47		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	6/1/21 09:55	6/2/21 13:47		1.015	0.00398	mg/L	0.000068	0.000203	
* Barium, Total	6/1/21 09:55	6/2/21 13:47		1.015	0.299	mg/L	0.000101	0.000203	
* Beryllium, Total	6/1/21 09:55	6/2/21 13:47		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/21 09:55	6/2/21 13:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/21 09:55	6/2/21 13:47		1.015	0.00129	mg/L	0.000203	0.001015	
* Cobalt, Total	6/1/21 09:55	6/2/21 13:47		1.015	0.000882	mg/L	0.000068	0.000203	
* Lead, Total	6/1/21 09:55	6/2/21 13:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	6/1/21 09:55	6/2/21 13:47		1.015	0.000363	mg/L	0.000068	0.000203	
* Potassium, Total	6/1/21 09:55	6/2/21 13:47		1.015	2.40	mg/L	0.169505	0.5075	
* Manganese, Total	6/1/21 09:55	6/2/21 13:47		1.015	0.729	mg/L	0.000068	0.000203	
* Selenium, Total	6/1/21 09:55	6/2/21 13:47		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	6/1/21 09:55	6/2/21 13:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	6/1/21 06:55	6/1/21 09:49		1.015	0.743	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	5/27/21 12:09	5/28/21 11:59		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	5/27/21 11:13	5/27/21 12:22		1	229	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	5/20/21 16:30	5/24/21 08:30		1	331	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-8V

Location Code: WMWBARAP
Collected: 5/18/21 11:35
Customer ID:
Submittal Date: 5/19/21 13:53

Laboratory ID Number: BB09276

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	5/27/21 11:13	5/27/21 12:22		1	229	mg/L			
Carbonate Alkalinity, (calc.)	5/27/21 11:13	5/27/21 12:22		1	0.04	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	6/2/21 15:43	6/2/21 15:43		2	22.7	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/4/21 09:17	6/4/21 09:17		1	0.0958	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/19/21 16:01	5/19/21 16:01		1	19.6	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	5/18/21 11:32	5/18/21 11:32			555.01	uS/cm			FA
pH	5/18/21 11:32	5/18/21 11:32			6.33	SU			FA
Temperature	5/18/21 11:32	5/18/21 11:32			20.72	C			FA
Turbidity	5/18/21 11:32	5/18/21 11:32			2.12	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/18/21 11:35

Customer ID:

Delivery Date: 5/19/21 13:53

Description: Barry Ash Pond - MW-8V

Laboratory ID Number: BB09276

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB09280	Cobalt, Total	mg/L	-0.0000064	0.000147	0.10	0.0990	0.0989	0.0988	0.0850 to 0.115	98.8	70.0 to 130	0.149	20.0
BB09280	Antimony, Total	mg/L	0.000101	0.00100	0.10	0.0931	0.0932	0.0969	0.0850 to 0.115	93.1	70.0 to 130	0.0552	20.0
BB09280	Magnesium, Total	mg/L	0.000787	0.0462	5.00	5.79	5.86	5.13	4.25 to 5.75	103	70.0 to 130	1.09	20.0
BB09280	Manganese, Total	mg/L	-0.0000455	0.000147	0.10	0.134	0.135	0.102	0.0850 to 0.115	97.2	70.0 to 130	1.05	20.0
BB09280	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.101	0.0975	0.0916	0.0850 to 0.115	99.4	70.0 to 130	3.44	20.0
BB09281	Iron, Dissolved	mg/L	-0.000111	0.0176	0.2	0.246	0.242	0.204	0.170 to 0.230	103	70.0 to 130	1.33	20.0
BB09280	Barium, Total	mg/L	-0.0000216	0.000200	0.10	0.111	0.117	0.105	0.0850 to 0.115	102	70.0 to 130	5.43	20.0
BB09280	Lead, Total	mg/L	0.0000023	0.000147	0.10	0.108	0.106	0.106	0.0850 to 0.115	108	70.0 to 130	1.46	20.0
BB09280	Arsenic, Total	mg/L	-0.0000014	0.000147	0.10	0.103	0.104	0.108	0.0850 to 0.115	102	70.0 to 130	0.123	20.0
BB09280	Boron, Total	mg/L	0.00744	0.0650	1.00	1.32	1.33	1.01	0.850 to 1.15	100	70.0 to 130	0.590	20.0
BB09280	Calcium, Total	mg/L	0.0516	0.152	5.00	6.52	6.61	5.17	4.25 to 5.75	104	70.0 to 130	1.45	20.0
BB09280	Iron, Total	mg/L	0.00139	0.0176	0.2	0.991	1.01	0.204	0.170 to 0.230	110	70.0 to 130	1.36	20.0
BB09280	Thallium, Total	mg/L	-0.0000022	0.000147	0.10	0.103	0.106	0.102	0.0850 to 0.115	103	70.0 to 130	2.61	20.0
BB09281	Manganese, Dissolved	mg/L	0.0000025	0.000147	0.10	0.107	0.106	0.103	0.0850 to 0.115	101	70.0 to 130	0.885	20.0
BB09283	Mercury, Total by CVAA	mg/L	0.0000487	0.000500	0.004	0.00421	0.00422	0.00407	0.00340 to 0.00460	105	70.0 to 130	0.142	20.0
BB09280	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0993	0.0996	0.0944	0.0850 to 0.115	99.3	70.0 to 130	0.287	20.0
BB09280	Chromium, Total	mg/L	-0.0000409	0.000440	0.10	0.100	0.100	0.0993	0.0850 to 0.115	98.4	70.0 to 130	0.261	20.0
BB09280	Selenium, Total	mg/L	-0.0000201	0.00100	0.10	0.0992	0.0989	0.102	0.0850 to 0.115	99.2	70.0 to 130	0.354	20.0
BB09280	Beryllium, Total	mg/L	0.0000218	0.000880	0.10	0.0965	0.0982	0.105	0.0850 to 0.115	96.5	70.0 to 130	1.79	20.0
BB09280	Potassium, Total	mg/L	-0.00760	0.367	10.0	11.2	11.2	10.3	8.50 to 11.5	95.1	70.0 to 130	0.390	20.0
BB09280	Lithium, Total	mg/L	0.000146	0.0154	0.20	0.229	0.231	0.199	0.170 to 0.230	115	70.0 to 130	0.870	20.0
BB09280	Sodium, Total	mg/L	0.00332	0.0660	5.00	150	150	5.15	4.25 to 5.75	96.1	70.0 to 130	0.0675	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/18/21 11:35

Customer ID:

Delivery Date: 5/19/21 13:53

Description: Barry Ash Pond - MW-8V

Laboratory ID Number: BB09276

Sample	Analysis	Units	MB	MB			Sample		Standard		Rec		Prec	Limit
				Limit	Spike	MS	Duplicate	Standard	Limit	Rec	Limit			
BB09283	Fluoride	mg/L	0.0236	0.100	2.50	2.57	0.0472	2.63	2.25 to 2.75	103	80.0 to 120	0.00	20.0	
BB09283	Chloride	mg/L	-0.055	1.00	100	197	81.2	10.0	9.00 to 11.0	118	80.0 to 120	2.12	20.0	
BB09283	Sulfate	mg/L	-0.0687	1.00	20.0	34.8	16.0	19.6	18.0 to 22.0	94.0	80.0 to 120	0.00	20.0	
BB09283	Solids, Dissolved	mg/L	0.0000	25.0			190	51.0	40.0 to 60.0			0.264	5.00	
BB09406	Alkalinity, Total as CaCO3	mg/L					273	51.6	45.0 to 55.0			2.17	10.0	

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-7V

Location Code: WMWBARAP
Collected: 5/18/21 13:12
Customer ID:
Submittal Date: 5/19/21 13:53

Laboratory ID Number: BB09277

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	6/1/21 09:55	6/4/21 09:21		1.015	0.0599	mg/L	0.030000	0.1015	J
* Calcium, Total	6/1/21 09:55	6/4/21 09:21		1.015	14.1	mg/L	0.070035	0.406	
* Iron, Total	6/1/21 09:55	6/4/21 15:14		20.3	25.0	mg/L	0.1624	0.812	
* Lithium, Total	6/1/21 09:55	6/4/21 09:21		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/1/21 09:55	6/4/21 09:21		1.015	12.3	mg/L	0.021315	0.406	
* Sodium, Total	6/1/21 09:55	6/4/21 09:21		1.015	27.3	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	6/1/21 06:55	6/2/21 14:13		10.15	25.3	mg/L	0.08120	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	6/1/21 09:55	6/2/21 13:50		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	6/1/21 09:55	6/2/21 13:50		1.015	0.00242	mg/L	0.000068	0.000203	
* Barium, Total	6/1/21 09:55	6/2/21 13:50		1.015	0.0805	mg/L	0.000101	0.000203	
* Beryllium, Total	6/1/21 09:55	6/2/21 13:50		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/21 09:55	6/2/21 13:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/21 09:55	6/2/21 13:50		1.015	0.000463	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/1/21 09:55	6/2/21 13:50		1.015	0.000139	mg/L	0.000068	0.000203	J
* Lead, Total	6/1/21 09:55	6/2/21 13:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	6/1/21 09:55	6/2/21 13:50		1.015	0.000210	mg/L	0.000068	0.000203	
* Potassium, Total	6/1/21 09:55	6/2/21 13:50		1.015	1.52	mg/L	0.169505	0.5075	
* Manganese, Total	6/1/21 09:55	6/2/21 13:50		1.015	0.232	mg/L	0.000068	0.000203	
* Selenium, Total	6/1/21 09:55	6/2/21 13:50		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	6/1/21 09:55	6/2/21 13:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	6/1/21 06:55	6/1/21 09:53		1.015	0.229	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	5/27/21 12:09	5/28/21 12:02		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	5/27/21 11:13	5/27/21 12:22		1	132	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	5/20/21 16:30	5/24/21 08:30		1	192	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-7V

Location Code: WMWBARAP
Collected: 5/18/21 13:12
Customer ID:
Submittal Date: 5/19/21 13:53

Laboratory ID Number: BB09277

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	5/27/21 11:13	5/27/21 12:22		1	132	mg/L			
Carbonate Alkalinity, (calc.)	5/27/21 11:13	5/27/21 12:22		1	0.05	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	6/2/21 15:33	6/2/21 15:33		1	19.0	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/4/21 09:18	6/4/21 09:18		1	0.112	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/19/21 16:03	5/19/21 16:03		1	5.53	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	5/18/21 13:09	5/18/21 13:09			334.04	uS/cm			FA
pH	5/18/21 13:09	5/18/21 13:09			6.53	SU			FA
Temperature	5/18/21 13:09	5/18/21 13:09			22.19	C			FA
Turbidity	5/18/21 13:09	5/18/21 13:09			0.51	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/18/21 13:12

Customer ID:

Delivery Date: 5/19/21 13:53

Description: Barry Ash Pond - MW-7V

Laboratory ID Number: BB09277

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB09280	Antimony, Total	mg/L	0.000101	0.00100	0.10	0.0931	0.0932	0.0969	0.0850 to 0.115	93.1	70.0 to 130	0.0552	20.0
BB09280	Cobalt, Total	mg/L	-0.0000064	0.000147	0.10	0.0990	0.0989	0.0988	0.0850 to 0.115	98.8	70.0 to 130	0.149	20.0
BB09280	Magnesium, Total	mg/L	0.000787	0.0462	5.00	5.79	5.86	5.13	4.25 to 5.75	103	70.0 to 130	1.09	20.0
BB09280	Manganese, Total	mg/L	-0.0000455	0.000147	0.10	0.134	0.135	0.102	0.0850 to 0.115	97.2	70.0 to 130	1.05	20.0
BB09280	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.101	0.0975	0.0916	0.0850 to 0.115	99.4	70.0 to 130	3.44	20.0
BB09281	Iron, Dissolved	mg/L	-0.000111	0.0176	0.2	0.246	0.242	0.204	0.170 to 0.230	103	70.0 to 130	1.33	20.0
BB09280	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0993	0.0996	0.0944	0.0850 to 0.115	99.3	70.0 to 130	0.287	20.0
BB09280	Chromium, Total	mg/L	-0.0000409	0.000440	0.10	0.100	0.100	0.0993	0.0850 to 0.115	98.4	70.0 to 130	0.261	20.0
BB09280	Selenium, Total	mg/L	-0.0000201	0.00100	0.10	0.0992	0.0989	0.102	0.0850 to 0.115	99.2	70.0 to 130	0.354	20.0
BB09280	Arsenic, Total	mg/L	-0.0000014	0.000147	0.10	0.103	0.104	0.108	0.0850 to 0.115	102	70.0 to 130	0.123	20.0
BB09280	Boron, Total	mg/L	0.00744	0.0650	1.00	1.32	1.33	1.01	0.850 to 1.15	100	70.0 to 130	0.590	20.0
BB09280	Barium, Total	mg/L	-0.0000216	0.000200	0.10	0.111	0.117	0.105	0.0850 to 0.115	102	70.0 to 130	5.43	20.0
BB09280	Lead, Total	mg/L	0.0000023	0.000147	0.10	0.108	0.106	0.106	0.0850 to 0.115	108	70.0 to 130	1.46	20.0
BB09280	Beryllium, Total	mg/L	0.0000218	0.000880	0.10	0.0965	0.0982	0.105	0.0850 to 0.115	96.5	70.0 to 130	1.79	20.0
BB09280	Potassium, Total	mg/L	-0.00760	0.367	10.0	11.2	11.2	10.3	8.50 to 11.5	95.1	70.0 to 130	0.390	20.0
BB09280	Lithium, Total	mg/L	0.000146	0.0154	0.20	0.229	0.231	0.199	0.170 to 0.230	115	70.0 to 130	0.870	20.0
BB09280	Sodium, Total	mg/L	0.00332	0.0660	5.00	150	150	5.15	4.25 to 5.75	96.1	70.0 to 130	0.0675	20.0
BB09280	Calcium, Total	mg/L	0.0516	0.152	5.00	6.52	6.61	5.17	4.25 to 5.75	104	70.0 to 130	1.45	20.0
BB09280	Iron, Total	mg/L	0.00139	0.0176	0.2	0.991	1.01	0.204	0.170 to 0.230	110	70.0 to 130	1.36	20.0
BB09280	Thallium, Total	mg/L	-0.0000022	0.000147	0.10	0.103	0.106	0.102	0.0850 to 0.115	103	70.0 to 130	2.61	20.0
BB09281	Manganese, Dissolved	mg/L	0.0000025	0.000147	0.10	0.107	0.106	0.103	0.0850 to 0.115	101	70.0 to 130	0.885	20.0
BB09283	Mercury, Total by CVAA	mg/L	0.0000487	0.000500	0.004	0.00421	0.00422	0.00407	0.00340 to 0.00460	105	70.0 to 130	0.142	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/18/21 13:12

Customer ID:

Delivery Date: 5/19/21 13:53

Description: Barry Ash Pond - MW-7V

Laboratory ID Number: BB09277

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB09283	Fluoride	mg/L	0.0236	0.100	2.50	2.57	0.0472	2.63	2.25 to 2.75	103	80.0 to 120	0.00	20.0
BB09283	Chloride	mg/L	-0.055	1.00	100	197	81.2	10.0	9.00 to 11.0	118	80.0 to 120	2.12	20.0
BB09283	Sulfate	mg/L	-0.0687	1.00	20.0	34.8	16.0	19.6	18.0 to 22.0	94.0	80.0 to 120	0.00	20.0
BB09283	Solids, Dissolved	mg/L	0.0000	25.0			190	51.0	40.0 to 60.0			0.264	5.00
BB09406	Alkalinity, Total as CaCO3	mg/L					273	51.6	45.0 to 55.0			2.17	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-7

Location Code: WMWBARAP
Collected: 5/18/21 14:17
Customer ID:
Submittal Date: 5/19/21 13:53

Laboratory ID Number: BB09278

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	6/1/21 09:55	6/4/21 09:25		1.015	0.0370	mg/L	0.030000	0.1015	J
* Calcium, Total	6/1/21 09:55	6/4/21 09:25		1.015	10.2	mg/L	0.070035	0.406	
* Iron, Total	6/1/21 09:55	6/4/21 15:17		20.3	14.1	mg/L	0.1624	0.812	
* Lithium, Total	6/1/21 09:55	6/4/21 09:25		1.015	0.0882	mg/L	0.007105	0.01999956	
* Magnesium, Total	6/1/21 09:55	6/4/21 09:25		1.015	7.35	mg/L	0.021315	0.406	
* Sodium, Total	6/1/21 09:55	6/4/21 09:25		1.015	29.3	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	6/1/21 06:55	6/2/21 14:17		10.15	11.6	mg/L	0.08120	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	6/1/21 09:55	6/2/21 13:54		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	6/1/21 09:55	6/2/21 13:54		1.015	0.0215	mg/L	0.000068	0.000203	
* Barium, Total	6/1/21 09:55	6/2/21 13:54		1.015	0.0700	mg/L	0.000101	0.000203	
* Beryllium, Total	6/1/21 09:55	6/2/21 13:54		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/21 09:55	6/2/21 13:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/21 09:55	6/2/21 13:54		1.015	0.00709	mg/L	0.000203	0.001015	
* Cobalt, Total	6/1/21 09:55	6/2/21 13:54		1.015	0.0189	mg/L	0.000068	0.000203	
* Lead, Total	6/1/21 09:55	6/2/21 13:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	6/1/21 09:55	6/2/21 13:54		1.015	0.000214	mg/L	0.000068	0.000203	
* Potassium, Total	6/1/21 09:55	6/2/21 13:54		1.015	24.3	mg/L	0.169505	0.5075	
* Manganese, Total	6/1/21 09:55	6/2/21 13:54		1.015	0.510	mg/L	0.000068	0.000203	
* Selenium, Total	6/1/21 09:55	6/2/21 13:54		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	6/1/21 09:55	6/2/21 13:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	6/1/21 06:55	6/1/21 09:57		1.015	0.456	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	5/27/21 12:09	5/28/21 12:04		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	5/27/21 11:13	5/27/21 12:22		1	150	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	5/24/21 10:46	5/26/21 12:50		1	175	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-7

Location Code: WMWBARAP
Collected: 5/18/21 14:17
Customer ID:
Submittal Date: 5/19/21 13:53

Laboratory ID Number: BB09278

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	5/27/21 11:13	5/27/21 12:22		1	150	mg/L			
Carbonate Alkalinity, (calc.)	5/27/21 11:13	5/27/21 12:22		1	0.07	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	6/2/21 15:35	6/2/21 15:35		1	14.2	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/4/21 09:19	6/4/21 09:19		1	0.110	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/19/21 16:06	5/19/21 16:06		1	4.60	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	5/18/21 14:13	5/18/21 14:13			322.90	uS/cm			FA
pH	5/18/21 14:13	5/18/21 14:13			6.40	SU			FA
Temperature	5/18/21 14:13	5/18/21 14:13			21.78	C			FA
Turbidity	5/18/21 14:13	5/18/21 14:13			1.91	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/18/21 14:17

Customer ID:

Delivery Date: 5/19/21 13:53

Description: Barry Ash Pond - MW-7

Laboratory ID Number: BB09278

Sample	Analysis	Units	MB					Standard		Rec			Prec Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BB09280	Cobalt, Total	mg/L	-0.0000064	0.000147	0.10	0.0990	0.0989	0.0988	0.0850 to 0.115	98.8	70.0 to 130	0.149	20.0
BB09280	Antimony, Total	mg/L	0.000101	0.00100	0.10	0.0931	0.0932	0.0969	0.0850 to 0.115	93.1	70.0 to 130	0.0552	20.0
BB09280	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0993	0.0996	0.0944	0.0850 to 0.115	99.3	70.0 to 130	0.287	20.0
BB09280	Chromium, Total	mg/L	-0.0000409	0.000440	0.10	0.100	0.100	0.0993	0.0850 to 0.115	98.4	70.0 to 130	0.261	20.0
BB09280	Selenium, Total	mg/L	-0.0000201	0.00100	0.10	0.0992	0.0989	0.102	0.0850 to 0.115	99.2	70.0 to 130	0.354	20.0
BB09280	Magnesium, Total	mg/L	0.000787	0.0462	5.00	5.79	5.86	5.13	4.25 to 5.75	103	70.0 to 130	1.09	20.0
BB09280	Manganese, Total	mg/L	-0.0000455	0.000147	0.10	0.134	0.135	0.102	0.0850 to 0.115	97.2	70.0 to 130	1.05	20.0
BB09280	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.101	0.0975	0.0916	0.0850 to 0.115	99.4	70.0 to 130	3.44	20.0
BB09281	Iron, Dissolved	mg/L	-0.000111	0.0176	0.2	0.246	0.242	0.204	0.170 to 0.230	103	70.0 to 130	1.33	20.0
BB09280	Arsenic, Total	mg/L	-0.0000014	0.000147	0.10	0.103	0.104	0.108	0.0850 to 0.115	102	70.0 to 130	0.123	20.0
BB09280	Boron, Total	mg/L	0.00744	0.0650	1.00	1.32	1.33	1.01	0.850 to 1.15	100	70.0 to 130	0.590	20.0
BB09280	Barium, Total	mg/L	-0.0000216	0.000200	0.10	0.111	0.117	0.105	0.0850 to 0.115	102	70.0 to 130	5.43	20.0
BB09280	Lead, Total	mg/L	0.0000023	0.000147	0.10	0.108	0.106	0.106	0.0850 to 0.115	108	70.0 to 130	1.46	20.0
BB09280	Beryllium, Total	mg/L	0.0000218	0.000880	0.10	0.0965	0.0982	0.105	0.0850 to 0.115	96.5	70.0 to 130	1.79	20.0
BB09280	Potassium, Total	mg/L	-0.00760	0.367	10.0	11.2	11.2	10.3	8.50 to 11.5	95.1	70.0 to 130	0.390	20.0
BB09280	Lithium, Total	mg/L	0.000146	0.0154	0.20	0.229	0.231	0.199	0.170 to 0.230	115	70.0 to 130	0.870	20.0
BB09280	Sodium, Total	mg/L	0.00332	0.0660	5.00	150	150	5.15	4.25 to 5.75	96.1	70.0 to 130	0.0675	20.0
BB09280	Calcium, Total	mg/L	0.0516	0.152	5.00	6.52	6.61	5.17	4.25 to 5.75	104	70.0 to 130	1.45	20.0
BB09280	Iron, Total	mg/L	0.00139	0.0176	0.2	0.991	1.01	0.204	0.170 to 0.230	110	70.0 to 130	1.36	20.0
BB09280	Thallium, Total	mg/L	-0.0000022	0.000147	0.10	0.103	0.106	0.102	0.0850 to 0.115	103	70.0 to 130	2.61	20.0
BB09281	Manganese, Dissolved	mg/L	0.0000025	0.000147	0.10	0.107	0.106	0.103	0.0850 to 0.115	101	70.0 to 130	0.885	20.0
BB09283	Mercury, Total by CVAA	mg/L	0.0000487	0.000500	0.004	0.00421	0.00422	0.00407	0.00340 to 0.00460	105	70.0 to 130	0.142	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/18/21 14:17

Customer ID:

Delivery Date: 5/19/21 13:53

Description: Barry Ash Pond - MW-7

Laboratory ID Number: BB09278

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB09283	Fluoride	mg/L	0.0236	0.100	2.50	2.57	0.0472	2.63	2.25 to 2.75	103	80.0 to 120	0.00	20.0
BB09279	Solids, Dissolved	mg/L	-2.00	25.0			177	53.0	40.0 to 60.0			2.61	5.00
BB09283	Chloride	mg/L	-0.055	1.00	100	197	81.2	10.0	9.00 to 11.0	118	80.0 to 120	2.12	20.0
BB09406	Alkalinity, Total as CaCO3	mg/L					273	51.6	45.0 to 55.0			2.17	10.0
BB09283	Sulfate	mg/L	-0.0687	1.00	20.0	34.8	16.0	19.6	18.0 to 22.0	94.0	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-7 DUP

Location Code: WMWBARAP
Collected: 5/18/21 14:17
Customer ID:
Submittal Date: 5/19/21 13:53

Laboratory ID Number: BB09279

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	6/1/21 09:55	6/4/21 09:28		1.015	0.0379	mg/L	0.030000	0.1015	J
* Calcium, Total	6/1/21 09:55	6/4/21 09:28		1.015	10.4	mg/L	0.070035	0.406	
* Iron, Total	6/1/21 09:55	6/4/21 15:20		20.3	14.3	mg/L	0.1624	0.812	
* Lithium, Total	6/1/21 09:55	6/4/21 09:28		1.015	0.0862	mg/L	0.007105	0.01999956	
* Magnesium, Total	6/1/21 09:55	6/4/21 09:28		1.015	7.41	mg/L	0.021315	0.406	
* Sodium, Total	6/1/21 09:55	6/4/21 09:28		1.015	29.2	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	6/1/21 06:55	6/2/21 14:20		10.15	11.7	mg/L	0.08120	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	6/1/21 09:55	6/2/21 13:57		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	6/1/21 09:55	6/2/21 13:57		1.015	0.0223	mg/L	0.000068	0.000203	
* Barium, Total	6/1/21 09:55	6/2/21 13:57		1.015	0.0688	mg/L	0.000101	0.000203	
* Beryllium, Total	6/1/21 09:55	6/2/21 13:57		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/21 09:55	6/2/21 13:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/21 09:55	6/2/21 13:57		1.015	0.00727	mg/L	0.000203	0.001015	
* Cobalt, Total	6/1/21 09:55	6/2/21 13:57		1.015	0.0194	mg/L	0.000068	0.000203	
* Lead, Total	6/1/21 09:55	6/2/21 13:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	6/1/21 09:55	6/2/21 13:57		1.015	0.000218	mg/L	0.000068	0.000203	
* Potassium, Total	6/1/21 09:55	6/2/21 13:57		1.015	24.1	mg/L	0.169505	0.5075	
* Manganese, Total	6/1/21 09:55	6/2/21 13:57		1.015	0.522	mg/L	0.000068	0.000203	
* Selenium, Total	6/1/21 09:55	6/2/21 13:57		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	6/1/21 09:55	6/2/21 13:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	6/1/21 06:55	6/1/21 10:00		1.015	0.452	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	5/27/21 12:09	5/28/21 12:06		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	5/27/21 11:13	5/27/21 12:22		1	148	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	5/24/21 10:46	5/26/21 12:50		1	168	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-7 DUP

Location Code: WMWBARAP
Collected: 5/18/21 14:17
Customer ID:
Submittal Date: 5/19/21 13:53

Laboratory ID Number: BB09279

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	5/27/21 11:13	5/27/21 12:22		1	148	mg/L			
Carbonate Alkalinity, (calc.)	5/27/21 11:13	5/27/21 12:22		1	0.06	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	6/2/21 15:36	6/2/21 15:36		1	14.2	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/4/21 09:20	6/4/21 09:20		1	0.107	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/19/21 16:05	5/19/21 16:05		1	5.34	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	5/18/21 14:13	5/18/21 14:13			322.90	uS/cm			FA
pH	5/18/21 14:13	5/18/21 14:13			6.40	SU			FA
Temperature	5/18/21 14:13	5/18/21 14:13			21.78	C			FA
Turbidity	5/18/21 14:13	5/18/21 14:13			1.91	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/18/21 14:17

Customer ID:

Delivery Date: 5/19/21 13:53

Description: Barry Ash Pond - MW-7 DUP

Laboratory ID Number: BB09279

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB09280	Cobalt, Total	mg/L	-0.0000064	0.000147	0.10	0.0990	0.0989	0.0988	0.0850 to 0.115	98.8	70.0 to 130	0.149	20.0
BB09280	Magnesium, Total	mg/L	0.000787	0.0462	5.00	5.79	5.86	5.13	4.25 to 5.75	103	70.0 to 130	1.09	20.0
BB09280	Manganese, Total	mg/L	-0.0000455	0.000147	0.10	0.134	0.135	0.102	0.0850 to 0.115	97.2	70.0 to 130	1.05	20.0
BB09280	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.101	0.0975	0.0916	0.0850 to 0.115	99.4	70.0 to 130	3.44	20.0
BB09281	Iron, Dissolved	mg/L	-0.000111	0.0176	0.2	0.246	0.242	0.204	0.170 to 0.230	103	70.0 to 130	1.33	20.0
BB09280	Antimony, Total	mg/L	0.000101	0.00100	0.10	0.0931	0.0932	0.0969	0.0850 to 0.115	93.1	70.0 to 130	0.0552	20.0
BB09280	Barium, Total	mg/L	-0.0000216	0.000200	0.10	0.111	0.117	0.105	0.0850 to 0.115	102	70.0 to 130	5.43	20.0
BB09280	Lead, Total	mg/L	0.0000023	0.000147	0.10	0.108	0.106	0.106	0.0850 to 0.115	108	70.0 to 130	1.46	20.0
BB09280	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0993	0.0996	0.0944	0.0850 to 0.115	99.3	70.0 to 130	0.287	20.0
BB09280	Chromium, Total	mg/L	-0.0000409	0.000440	0.10	0.100	0.100	0.0993	0.0850 to 0.115	98.4	70.0 to 130	0.261	20.0
BB09280	Selenium, Total	mg/L	-0.0000201	0.00100	0.10	0.0992	0.0989	0.102	0.0850 to 0.115	99.2	70.0 to 130	0.354	20.0
BB09280	Arsenic, Total	mg/L	-0.0000014	0.000147	0.10	0.103	0.104	0.108	0.0850 to 0.115	102	70.0 to 130	0.123	20.0
BB09280	Boron, Total	mg/L	0.00744	0.0650	1.00	1.32	1.33	1.01	0.850 to 1.15	100	70.0 to 130	0.590	20.0
BB09280	Beryllium, Total	mg/L	0.0000218	0.000880	0.10	0.0965	0.0982	0.105	0.0850 to 0.115	96.5	70.0 to 130	1.79	20.0
BB09280	Potassium, Total	mg/L	-0.00760	0.367	10.0	11.2	11.2	10.3	8.50 to 11.5	95.1	70.0 to 130	0.390	20.0
BB09280	Lithium, Total	mg/L	0.000146	0.0154	0.20	0.229	0.231	0.199	0.170 to 0.230	115	70.0 to 130	0.870	20.0
BB09280	Sodium, Total	mg/L	0.00332	0.0660	5.00	150	150	5.15	4.25 to 5.75	96.1	70.0 to 130	0.0675	20.0
BB09280	Calcium, Total	mg/L	0.0516	0.152	5.00	6.52	6.61	5.17	4.25 to 5.75	104	70.0 to 130	1.45	20.0
BB09280	Iron, Total	mg/L	0.00139	0.0176	0.2	0.991	1.01	0.204	0.170 to 0.230	110	70.0 to 130	1.36	20.0
BB09280	Thallium, Total	mg/L	-0.0000022	0.000147	0.10	0.103	0.106	0.102	0.0850 to 0.115	103	70.0 to 130	2.61	20.0
BB09281	Manganese, Dissolved	mg/L	0.0000025	0.000147	0.10	0.107	0.106	0.103	0.0850 to 0.115	101	70.0 to 130	0.885	20.0
BB09283	Mercury, Total by CVAA	mg/L	0.0000487	0.000500	0.004	0.00421	0.00422	0.00407	0.00340 to 0.00460	105	70.0 to 130	0.142	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/18/21 14:17

Customer ID:

Delivery Date: 5/19/21 13:53

Description: Barry Ash Pond - MW-7 DUP

Laboratory ID Number: BB09279

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB09279	Solids, Dissolved	mg/L	-2.00	25.0			177	53.0	40.0 to 60.0			2.61	5.00
BB09283	Fluoride	mg/L	0.0236	0.100	2.50	2.57	0.0472	2.63	2.25 to 2.75	103	80.0 to 120	0.00	20.0
BB09406	Alkalinity, Total as CaCO3	mg/L					273	51.6	45.0 to 55.0			2.17	10.0
BB09283	Sulfate	mg/L	-0.0687	1.00	20.0	34.8	16.0	19.6	18.0 to 22.0	94.0	80.0 to 120	0.00	20.0
BB09283	Chloride	mg/L	-0.055	1.00	100	197	81.2	10.0	9.00 to 11.0	118	80.0 to 120	2.12	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-23V

Location Code: WMWBARAP
Collected: 5/17/21 13:22
Customer ID:
Submittal Date: 5/19/21 13:53

Laboratory ID Number: BB09280

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	6/1/21 09:55	6/4/21 09:31		1.015	0.320	mg/L	0.030000	0.1015	
* Calcium, Total	6/1/21 09:55	6/4/21 09:31		1.015	1.33	mg/L	0.070035	0.406	
* Iron, Total	6/1/21 09:55	6/4/21 09:31		1.015	0.771	mg/L	0.008120	0.0406	
* Lithium, Total	6/1/21 09:55	6/4/21 09:31		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/1/21 09:55	6/4/21 09:31		1.015	0.636	mg/L	0.021315	0.406	
* Sodium, Total	6/1/21 09:55	6/4/21 15:24		101.5	145	mg/L	3.045	40.6	
Analytical Method: EPA 200.7			Analyst: RDA						
* Iron, Dissolved	6/1/21 06:55	6/2/21 11:03		1.015	0.512	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	6/1/21 09:55	6/2/21 14:01		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	6/1/21 09:55	6/2/21 14:01		1.015	0.00119	mg/L	0.000068	0.000203	
* Barium, Total	6/1/21 09:55	6/2/21 14:01		1.015	0.00940	mg/L	0.000101	0.000203	
* Beryllium, Total	6/1/21 09:55	6/2/21 14:01		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/21 09:55	6/2/21 14:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/21 09:55	6/2/21 14:01		1.015	0.00163	mg/L	0.000203	0.001015	
* Cobalt, Total	6/1/21 09:55	6/2/21 14:01		1.015	0.000217	mg/L	0.000068	0.000203	
* Lead, Total	6/1/21 09:55	6/2/21 14:01		1.015	0.000216	mg/L	0.000068	0.000203	
* Molybdenum, Total	6/1/21 09:55	6/2/21 14:01		1.015	0.00147	mg/L	0.000068	0.000203	
* Potassium, Total	6/1/21 09:55	6/2/21 14:01		1.015	1.70	mg/L	0.169505	0.5075	
* Manganese, Total	6/1/21 09:55	6/2/21 14:01		1.015	0.0368	mg/L	0.000068	0.000203	
* Selenium, Total	6/1/21 09:55	6/2/21 14:01		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	6/1/21 09:55	6/2/21 14:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8			Analyst: DLJ						
* Manganese, Dissolved	6/1/21 06:55	6/1/21 10:04		1.015	0.0363	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	5/27/21 12:09	5/28/21 12:09		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B			Analyst: JAG						
Alkalinity, Total as CaCO3	5/27/21 11:13	5/27/21 12:22		1	163	mg/L		0.1	
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	5/20/21 16:30	5/24/21 08:30		1	386	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-23V

Location Code: WMWBARAP
Collected: 5/17/21 13:22
Customer ID:
Submittal Date: 5/19/21 13:53

Laboratory ID Number: BB09280

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	5/27/21 11:13	5/27/21 12:22		1	162	mg/L			
Carbonate Alkalinity, (calc.)	5/27/21 11:13	5/27/21 12:22		1	1.59	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	6/2/21 15:44	6/2/21 15:44		10	134	mg/L	5.00	10	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/4/21 09:22	6/4/21 09:22		1	0.379	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/19/21 16:07	5/19/21 16:07		1	6.92	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	5/17/21 13:19	5/17/21 13:19			627.93	uS/cm			FA
pH	5/17/21 13:19	5/17/21 13:19			7.87	SU			FA
Temperature	5/17/21 13:19	5/17/21 13:19			20.52	C			FA
Turbidity	5/17/21 13:19	5/17/21 13:19			6.48	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/17/21 13:22

Customer ID:

Delivery Date: 5/19/21 13:53

Description: Barry Ash Pond - MW-23V

Laboratory ID Number: BB09280

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB09280	Cobalt, Total	mg/L	-0.0000064	0.000147	0.10	0.0990	0.0989	0.0988	0.0850 to 0.115	98.8	70.0 to 130	0.149	20.0
BB09280	Antimony, Total	mg/L	0.000101	0.00100	0.10	0.0931	0.0932	0.0969	0.0850 to 0.115	93.1	70.0 to 130	0.0552	20.0
BB09280	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0993	0.0996	0.0944	0.0850 to 0.115	99.3	70.0 to 130	0.287	20.0
BB09280	Chromium, Total	mg/L	-0.0000409	0.000440	0.10	0.100	0.100	0.0993	0.0850 to 0.115	98.4	70.0 to 130	0.261	20.0
BB09280	Selenium, Total	mg/L	-0.0000201	0.00100	0.10	0.0992	0.0989	0.102	0.0850 to 0.115	99.2	70.0 to 130	0.354	20.0
BB09280	Arsenic, Total	mg/L	-0.0000014	0.000147	0.10	0.103	0.104	0.108	0.0850 to 0.115	102	70.0 to 130	0.123	20.0
BB09280	Boron, Total	mg/L	0.00744	0.0650	1.00	1.32	1.33	1.01	0.850 to 1.15	100	70.0 to 130	0.590	20.0
BB09280	Magnesium, Total	mg/L	0.000787	0.0462	5.00	5.79	5.86	5.13	4.25 to 5.75	103	70.0 to 130	1.09	20.0
BB09280	Manganese, Total	mg/L	-0.0000455	0.000147	0.10	0.134	0.135	0.102	0.0850 to 0.115	97.2	70.0 to 130	1.05	20.0
BB09280	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.101	0.0975	0.0916	0.0850 to 0.115	99.4	70.0 to 130	3.44	20.0
BB09281	Iron, Dissolved	mg/L	-0.000111	0.0176	0.2	0.246	0.242	0.204	0.170 to 0.230	103	70.0 to 130	1.33	20.0
BB09280	Barium, Total	mg/L	-0.0000216	0.000200	0.10	0.111	0.117	0.105	0.0850 to 0.115	102	70.0 to 130	5.43	20.0
BB09280	Lead, Total	mg/L	0.0000023	0.000147	0.10	0.108	0.106	0.106	0.0850 to 0.115	108	70.0 to 130	1.46	20.0
BB09280	Beryllium, Total	mg/L	0.0000218	0.000880	0.10	0.0965	0.0982	0.105	0.0850 to 0.115	96.5	70.0 to 130	1.79	20.0
BB09280	Potassium, Total	mg/L	-0.00760	0.367	10.0	11.2	11.2	10.3	8.50 to 11.5	95.1	70.0 to 130	0.390	20.0
BB09280	Lithium, Total	mg/L	0.000146	0.0154	0.20	0.229	0.231	0.199	0.170 to 0.230	115	70.0 to 130	0.870	20.0
BB09280	Sodium, Total	mg/L	0.00332	0.0660	5.00	150	150	5.15	4.25 to 5.75	96.1	70.0 to 130	0.0675	20.0
BB09280	Calcium, Total	mg/L	0.0516	0.152	5.00	6.52	6.61	5.17	4.25 to 5.75	104	70.0 to 130	1.45	20.0
BB09280	Iron, Total	mg/L	0.00139	0.0176	0.2	0.991	1.01	0.204	0.170 to 0.230	110	70.0 to 130	1.36	20.0
BB09280	Thallium, Total	mg/L	-0.0000022	0.000147	0.10	0.103	0.106	0.102	0.0850 to 0.115	103	70.0 to 130	2.61	20.0
BB09281	Manganese, Dissolved	mg/L	0.0000025	0.000147	0.10	0.107	0.106	0.103	0.0850 to 0.115	101	70.0 to 130	0.885	20.0
BB09283	Mercury, Total by CVAA	mg/L	0.0000487	0.000500	0.004	0.00421	0.00422	0.00407	0.00340 to 0.00460	105	70.0 to 130	0.142	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/17/21 13:22

Customer ID:

Delivery Date: 5/19/21 13:53

Description: Barry Ash Pond - MW-23V

Laboratory ID Number: BB09280

Sample	Analysis	Units	MB	MB			Sample		Standard		Rec		Prec	Limit	
				Limit	Spike	MS	Duplicate	Standard	Limit	Rec	Limit				
BB09283	Fluoride	mg/L	0.0236	0.100	2.50	2.57	0.0472	2.63	2.25 to 2.75		103	80.0 to 120		0.00	20.0
BB09283	Chloride	mg/L	-0.055	1.00	100	197	81.2	10.0	9.00 to 11.0		118	80.0 to 120		2.12	20.0
BB09283	Sulfate	mg/L	-0.0687	1.00	20.0	34.8	16.0	19.6	18.0 to 22.0		94.0	80.0 to 120		0.00	20.0
BB09283	Solids, Dissolved	mg/L	0.0000	25.0			190	51.0	40.0 to 60.0					0.264	5.00
BB09406	Alkalinity, Total as CaCO3	mg/L					273	51.6	45.0 to 55.0					2.17	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-6

Location Code: WMWBARAP
Collected: 5/17/21 14:21
Customer ID:
Submittal Date: 5/19/21 13:53

Laboratory ID Number: BB09281

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	6/1/21 09:55	6/4/21 09:48		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	6/1/21 09:55	6/4/21 09:48		1.015	1.93	mg/L	0.070035	0.406	
* Iron, Total	6/1/21 09:55	6/4/21 09:48		1.015	0.0394	mg/L	0.008120	0.0406	J
* Lithium, Total	6/1/21 09:55	6/4/21 09:48		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/1/21 09:55	6/4/21 09:48		1.015	1.28	mg/L	0.021315	0.406	
* Sodium, Total	6/1/21 09:55	6/4/21 09:48		1.015	7.33	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA						
* Iron, Dissolved	6/1/21 06:55	6/2/21 11:06		1.015	0.0393	mg/L	0.008120	0.0406	J
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	6/1/21 09:55	6/2/21 14:22		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	6/1/21 09:55	6/2/21 14:22		1.015	0.000103	mg/L	0.000068	0.000203	J
* Barium, Total	6/1/21 09:55	6/2/21 14:22		1.015	0.0305	mg/L	0.000101	0.000203	
* Beryllium, Total	6/1/21 09:55	6/2/21 14:22		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/21 09:55	6/2/21 14:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/21 09:55	6/2/21 14:22		1.015	0.000313	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/1/21 09:55	6/2/21 14:22		1.015	0.000678	mg/L	0.000068	0.000203	
* Lead, Total	6/1/21 09:55	6/2/21 14:22		1.015	0.00162	mg/L	0.000068	0.000203	
* Molybdenum, Total	6/1/21 09:55	6/2/21 14:22		1.015	0.000117	mg/L	0.000068	0.000203	J
* Potassium, Total	6/1/21 09:55	6/2/21 14:22		1.015	1.08	mg/L	0.169505	0.5075	
* Manganese, Total	6/1/21 09:55	6/2/21 14:22		1.015	0.00597	mg/L	0.000068	0.000203	
* Selenium, Total	6/1/21 09:55	6/2/21 14:22		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	6/1/21 09:55	6/2/21 14:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8			Analyst: DLJ						
* Manganese, Dissolved	6/1/21 06:55	6/1/21 10:07		1.015	0.00590	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	5/27/21 12:09	5/28/21 12:11		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B			Analyst: JAG						
Alkalinity, Total as CaCO3	5/27/21 11:13	5/27/21 12:22		1	15.9	mg/L		0.1	
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	5/20/21 16:30	5/24/21 08:30		1	46.7	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-6

Location Code: WMWBARAP
Collected: 5/17/21 14:21
Customer ID:
Submittal Date: 5/19/21 13:53

Laboratory ID Number: BB09281

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	5/27/21 11:13	5/27/21 12:22		1	15.9	mg/L			
Carbonate Alkalinity, (calc.)	5/27/21 11:13	5/27/21 12:22		1	0.00	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	6/2/21 15:38	6/2/21 15:38		1	6.26	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/4/21 09:23	6/4/21 09:23		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/19/21 16:09	5/19/21 16:09		1	0.981	mg/L	0.50	1	J
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	5/17/21 14:18	5/17/21 14:18			54.42	uS/cm			FA
pH	5/17/21 14:18	5/17/21 14:18			5.21	SU			FA
Temperature	5/17/21 14:18	5/17/21 14:18			21.42	C			FA
Turbidity	5/17/21 14:18	5/17/21 14:18			0.48	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/17/21 14:21

Customer ID:

Delivery Date: 5/19/21 13:53

Description: Barry Ash Pond - MW-6

Laboratory ID Number: BB09281

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB09290	Lead, Total	mg/L	0.000023	0.000147	0.10	0.108	0.106	0.106	0.0850 to 0.115	108	70.0 to 130	1.92	20.0
BB09281	Iron, Dissolved	mg/L	-0.000111	0.0176	0.2	0.246	0.242	0.204	0.170 to 0.230	103	70.0 to 130	1.33	20.0
BB09290	Chromium, Total	mg/L	-0.0000409	0.000440	0.10	0.100	0.104	0.0993	0.0850 to 0.115	99.3	70.0 to 130	3.75	20.0
BB09290	Sodium, Total	mg/L	0.00332	0.0660	5.00	25.7	25.6	5.15	4.25 to 5.75	110	70.0 to 130	0.366	20.0
BB09290	Antimony, Total	mg/L	0.000101	0.00100	0.10	0.104	0.100	0.0969	0.0850 to 0.115	104	70.0 to 130	3.18	20.0
BB09290	Selenium, Total	mg/L	-0.0000201	0.00100	0.10	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	1.35	20.0
BB09290	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0978	0.0975	0.0944	0.0850 to 0.115	97.8	70.0 to 130	0.328	20.0
BB09290	Manganese, Total	mg/L	-0.0000455	0.000147	0.10	2.11	2.10	0.102	0.0850 to 0.115	121	70.0 to 130	0.170	20.0
BB09290	Beryllium, Total	mg/L	0.0000218	0.000880	0.10	0.0988	0.0987	0.105	0.0850 to 0.115	98.8	70.0 to 130	0.0677	20.0
BB09290	Calcium, Total	mg/L	0.0516	0.152	5.00	44.8	45.3	5.17	4.25 to 5.75	86.4	70.0 to 130	1.14	20.0
BB09290	Iron, Total	mg/L	0.00139	0.0176	0.2	78.5	79.6	0.204	0.170 to 0.230	-1190	70.0 to 130	1.39	20.0
BB09290	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.0979	0.0964	0.0916	0.0850 to 0.115	97.7	70.0 to 130	1.53	20.0
BB09290	Thallium, Total	mg/L	-0.0000022	0.000147	0.10	0.103	0.107	0.102	0.0850 to 0.115	103	70.0 to 130	3.22	20.0
BB09290	Potassium, Total	mg/L	-0.00760	0.367	10.0	10.6	10.8	10.3	8.50 to 11.5	96.5	70.0 to 130	2.35	20.0
BB09290	Magnesium, Total	mg/L	0.000787	0.0462	5.00	16.8	16.7	5.13	4.25 to 5.75	103	70.0 to 130	0.217	20.0
BB09290	Arsenic, Total	mg/L	-0.0000014	0.000147	0.10	0.151	0.145	0.108	0.0850 to 0.115	108	70.0 to 130	4.02	20.0
BB09290	Barium, Total	mg/L	-0.0000216	0.000200	0.10	0.233	0.227	0.105	0.0850 to 0.115	108	70.0 to 130	2.46	20.0
BB09281	Manganese, Dissolved	mg/L	0.0000025	0.000147	0.10	0.107	0.106	0.103	0.0850 to 0.115	101	70.0 to 130	0.885	20.0
BB09283	Mercury, Total by CVAA	mg/L	0.0000487	0.000500	0.004	0.00421	0.00422	0.00407	0.00340 to 0.00460	105	70.0 to 130	0.142	20.0
BB09290	Boron, Total	mg/L	0.00744	0.0650	1.00	3.08	3.09	1.01	0.850 to 1.15	99.5	70.0 to 130	0.235	20.0
BB09290	Cobalt, Total	mg/L	-0.0000064	0.000147	0.10	0.101	0.104	0.0988	0.0850 to 0.115	100	70.0 to 130	3.14	20.0
BB09290	Lithium, Total	mg/L	0.000146	0.0154	0.20	0.217	0.216	0.199	0.170 to 0.230	108	70.0 to 130	0.339	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/17/21 14:21

Customer ID:

Delivery Date: 5/19/21 13:53

Description: Barry Ash Pond - MW-6

Laboratory ID Number: BB09281

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB09283	Fluoride	mg/L	0.0236	0.100	2.50	2.57	0.0472	2.63	2.25 to 2.75	103	80.0 to 120	0.00	20.0
BB09283	Chloride	mg/L	-0.055	1.00	100	197	81.2	10.0	9.00 to 11.0	118	80.0 to 120	2.12	20.0
BB09283	Sulfate	mg/L	-0.0687	1.00	20.0	34.8	16.0	19.6	18.0 to 22.0	94.0	80.0 to 120	0.00	20.0
BB09283	Solids, Dissolved	mg/L	0.0000	25.0			190	51.0	40.0 to 60.0			0.264	5.00
BB09406	Alkalinity, Total as CaCO3	mg/L					273	51.6	45.0 to 55.0			2.17	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond Field Blank-1

Location Code: WMWBARAPFB
Collected: 5/17/21 14:45
Customer ID:
Submittal Date: 5/19/21 13:53

Laboratory ID Number: BB09282

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	6/1/21 09:55	6/4/21 09:52		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	6/1/21 09:55	6/4/21 09:52		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	6/1/21 09:55	6/4/21 09:52		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	6/1/21 09:55	6/4/21 09:52		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/1/21 09:55	6/4/21 09:52		1.015	Not Detected	mg/L	0.021315	0.406	U
* Sodium, Total	6/1/21 09:55	6/4/21 09:52		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	6/1/21 09:55	6/2/21 14:26		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	6/1/21 09:55	6/2/21 14:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	6/1/21 09:55	6/2/21 14:26		1.015	Not Detected	mg/L	0.000101	0.000203	U
* Beryllium, Total	6/1/21 09:55	6/2/21 14:26		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/21 09:55	6/2/21 14:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/21 09:55	6/2/21 14:26		1.015	0.000328	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/1/21 09:55	6/2/21 14:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	6/1/21 09:55	6/2/21 14:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	6/1/21 09:55	6/2/21 14:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	6/1/21 09:55	6/2/21 14:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	6/1/21 09:55	6/2/21 14:26		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	6/1/21 09:55	6/2/21 14:26		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	6/1/21 09:55	6/2/21 14:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	5/27/21 12:09	5/28/21 12:14		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	5/20/21 16:30	5/24/21 08:30		1	Not Detected	mg/L		25	U
Analytical Method: SM4500CI E			Analyst: JCC						
* Chloride	6/2/21 15:39	6/2/21 15:39		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	6/4/21 09:24	6/4/21 09:24		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011			Analyst: JCC						
* Sulfate	5/19/21 16:10	5/19/21 16:10		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Batch QC Summary

Customer Account: WMWBARAPFB

Sample Date: 5/17/21 14:45

Customer ID:

Delivery Date: 5/19/21 13:53

Description: Barry Ash Pond Field Blank-1

Laboratory ID Number: BB09282

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB09290	Lead, Total	mg/L	0.0000023	0.000147	0.10	0.108	0.106	0.106	0.0850 to 0.115	108	70.0 to 130	1.92	20.0
BB09290	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0978	0.0975	0.0944	0.0850 to 0.115	97.8	70.0 to 130	0.328	20.0
BB09290	Manganese, Total	mg/L	-0.0000455	0.000147	0.10	2.11	2.10	0.102	0.0850 to 0.115	121	70.0 to 130	0.170	20.0
BB09290	Chromium, Total	mg/L	-0.0000409	0.000440	0.10	0.100	0.104	0.0993	0.0850 to 0.115	99.3	70.0 to 130	3.75	20.0
BB09290	Sodium, Total	mg/L	0.00332	0.0660	5.00	25.7	25.6	5.15	4.25 to 5.75	110	70.0 to 130	0.366	20.0
BB09290	Antimony, Total	mg/L	0.000101	0.00100	0.10	0.104	0.100	0.0969	0.0850 to 0.115	104	70.0 to 130	3.18	20.0
BB09290	Selenium, Total	mg/L	-0.0000201	0.00100	0.10	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	1.35	20.0
BB09290	Arsenic, Total	mg/L	-0.0000014	0.000147	0.10	0.151	0.145	0.108	0.0850 to 0.115	108	70.0 to 130	4.02	20.0
BB09290	Barium, Total	mg/L	-0.0000216	0.000200	0.10	0.233	0.227	0.105	0.0850 to 0.115	108	70.0 to 130	2.46	20.0
BB09290	Potassium, Total	mg/L	-0.00760	0.367	10.0	10.6	10.8	10.3	8.50 to 11.5	96.5	70.0 to 130	2.35	20.0
BB09290	Magnesium, Total	mg/L	0.000787	0.0462	5.00	16.8	16.7	5.13	4.25 to 5.75	103	70.0 to 130	0.217	20.0
BB09290	Beryllium, Total	mg/L	0.0000218	0.000880	0.10	0.0988	0.0987	0.105	0.0850 to 0.115	98.8	70.0 to 130	0.0677	20.0
BB09290	Calcium, Total	mg/L	0.0516	0.152	5.00	44.8	45.3	5.17	4.25 to 5.75	86.4	70.0 to 130	1.14	20.0
BB09290	Iron, Total	mg/L	0.00139	0.0176	0.2	78.5	79.6	0.204	0.170 to 0.230	-1190	70.0 to 130	1.39	20.0
BB09290	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.0979	0.0964	0.0916	0.0850 to 0.115	97.7	70.0 to 130	1.53	20.0
BB09290	Thallium, Total	mg/L	-0.0000022	0.000147	0.10	0.103	0.107	0.102	0.0850 to 0.115	103	70.0 to 130	3.22	20.0
BB09283	Mercury, Total by CVAA	mg/L	0.0000487	0.000500	0.004	0.00421	0.00422	0.00407	0.00340 to 0.00460	105	70.0 to 130	0.142	20.0
BB09290	Boron, Total	mg/L	0.00744	0.0650	1.00	3.08	3.09	1.01	0.850 to 1.15	99.5	70.0 to 130	0.235	20.0
BB09290	Cobalt, Total	mg/L	-0.0000064	0.000147	0.10	0.101	0.104	0.0988	0.0850 to 0.115	100	70.0 to 130	3.14	20.0
BB09290	Lithium, Total	mg/L	0.000146	0.0154	0.20	0.217	0.216	0.199	0.170 to 0.230	108	70.0 to 130	0.339	20.0

Comments:

Batch QC Summary

Customer Account: WMWBARAPFB

Sample Date: 5/17/21 14:45

Customer ID:

Delivery Date: 5/19/21 13:53

Description: Barry Ash Pond Field Blank-1

Laboratory ID Number: BB09282

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB09283	Fluoride	mg/L	0.0236	0.100	2.50	2.57	0.0472	2.63	2.25 to 2.75	103	80.0 to 120	0.00	20.0
BB09283	Solids, Dissolved	mg/L	0.0000	25.0			190	51.0	40.0 to 60.0			0.264	5.00
BB09283	Sulfate	mg/L	-0.0687	1.00	20.0	34.8	16.0	19.6	18.0 to 22.0	94.0	80.0 to 120	0.00	20.0
BB09283	Chloride	mg/L	-0.055	1.00	100	197	81.2	10.0	9.00 to 11.0	118	80.0 to 120	2.12	20.0

Comments:

Certificate Of Analysis

Description: Barry Ash Pond - MW-1V

Location Code: WMWBARAP
Collected: 5/18/21 08:46
Customer ID:
Submittal Date: 5/19/21 13:53

Laboratory ID Number: BB09283

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	6/1/21 09:55	6/4/21 09:55		1.015	0.0334	mg/L	0.030000	0.1015	J
* Calcium, Total	6/1/21 09:55	6/4/21 09:55		1.015	3.79	mg/L	0.070035	0.406	
* Iron, Total	6/1/21 09:55	6/4/21 09:55		1.015	1.46	mg/L	0.008120	0.0406	
* Lithium, Total	6/1/21 09:55	6/4/21 09:55		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/1/21 09:55	6/4/21 09:55		1.015	2.24	mg/L	0.021315	0.406	
* Sodium, Total	6/1/21 09:55	6/4/21 15:34		20.3	53.8	mg/L	0.609	8.12	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	6/1/21 06:55	6/2/21 11:23		1.015	1.52	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	6/1/21 09:55	6/2/21 14:29		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	6/1/21 09:55	6/2/21 14:29		1.015	0.00144	mg/L	0.000068	0.000203	
* Barium, Total	6/1/21 09:55	6/2/21 14:29		1.015	0.0861	mg/L	0.000101	0.000203	
* Beryllium, Total	6/1/21 09:55	6/2/21 14:29		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/21 09:55	6/2/21 14:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/21 09:55	6/2/21 14:29		1.015	0.000447	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/1/21 09:55	6/2/21 14:29		1.015	0.00483	mg/L	0.000068	0.000203	
* Lead, Total	6/1/21 09:55	6/2/21 14:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	6/1/21 09:55	6/2/21 14:29		1.015	0.000180	mg/L	0.000068	0.000203	J
* Potassium, Total	6/1/21 09:55	6/2/21 14:29		1.015	2.17	mg/L	0.169505	0.5075	
* Manganese, Total	6/1/21 09:55	6/2/21 14:29		1.015	0.142	mg/L	0.000068	0.000203	
* Selenium, Total	6/1/21 09:55	6/2/21 14:29		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	6/1/21 09:55	6/2/21 14:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	6/1/21 06:55	6/1/21 10:29		1.015	0.146	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	5/27/21 12:09	5/28/21 12:16		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	5/27/21 11:13	5/27/21 12:22		1	24.9	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	5/20/21 16:30	5/24/21 08:30		1	189	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-1V

Location Code: WMWBARAP
Collected: 5/18/21 08:46
Customer ID:
Submittal Date: 5/19/21 13:53

Laboratory ID Number: BB09283

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	5/27/21 11:13	5/27/21 12:22		1	24.9	mg/L			
Carbonate Alkalinity, (calc.)	5/27/21 11:13	5/27/21 12:22		1	0.00	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	6/2/21 15:55	6/2/21 15:55		10	79.5	mg/L	5.00	10	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/4/21 09:25	6/4/21 09:25		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/19/21 16:11	5/19/21 16:11		1	16.0	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	5/18/21 08:43	5/18/21 08:43			329.63	uS/cm			FA
pH	5/18/21 08:43	5/18/21 08:43			5.55	SU			FA
Temperature	5/18/21 08:43	5/18/21 08:43			21.10	C			FA
Turbidity	5/18/21 08:43	5/18/21 08:43			1.82	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/18/21 08:46

Customer ID:

Delivery Date: 5/19/21 13:53

Description: Barry Ash Pond - MW-1V

Laboratory ID Number: BB09283

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB09290	Lead, Total	mg/L	0.0000023	0.000147	0.10	0.108	0.106	0.106	0.0850 to 0.115	108	70.0 to 130	1.92	20.0
BB09290	Chromium, Total	mg/L	-0.0000409	0.000440	0.10	0.100	0.104	0.0993	0.0850 to 0.115	99.3	70.0 to 130	3.75	20.0
BB09290	Sodium, Total	mg/L	0.00332	0.0660	5.00	25.7	25.6	5.15	4.25 to 5.75	110	70.0 to 130	0.366	20.0
BB09290	Antimony, Total	mg/L	0.000101	0.00100	0.10	0.104	0.100	0.0969	0.0850 to 0.115	104	70.0 to 130	3.18	20.0
BB09290	Selenium, Total	mg/L	-0.0000201	0.00100	0.10	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	1.35	20.0
BB09290	Manganese, Total	mg/L	-0.0000455	0.000147	0.10	2.11	2.10	0.102	0.0850 to 0.115	121	70.0 to 130	0.170	20.0
BB09290	Potassium, Total	mg/L	-0.00760	0.367	10.0	10.6	10.8	10.3	8.50 to 11.5	96.5	70.0 to 130	2.35	20.0
BB09290	Magnesium, Total	mg/L	0.000787	0.0462	5.00	16.8	16.7	5.13	4.25 to 5.75	103	70.0 to 130	0.217	20.0
BB09292	Manganese, Dissolved	mg/L	0.0000025	0.000147	0.10	1.38	1.37	0.103	0.0850 to 0.115	166	70.0 to 130	0.534	20.0
BB09290	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0978	0.0975	0.0944	0.0850 to 0.115	97.8	70.0 to 130	0.328	20.0
BB09292	Iron, Dissolved	mg/L	-0.000111	0.0176	0.2	89.0	88.0	0.204	0.170 to 0.230	237	70.0 to 130	1.04	20.0
BB09290	Arsenic, Total	mg/L	-0.0000014	0.000147	0.10	0.151	0.145	0.108	0.0850 to 0.115	108	70.0 to 130	4.02	20.0
BB09290	Barium, Total	mg/L	-0.0000216	0.000200	0.10	0.233	0.227	0.105	0.0850 to 0.115	108	70.0 to 130	2.46	20.0
BB09283	Mercury, Total by CVAA	mg/L	0.0000487	0.000500	0.004	0.00421	0.00422	0.00407	0.00340 to 0.00460	105	70.0 to 130	0.142	20.0
BB09290	Boron, Total	mg/L	0.00744	0.0650	1.00	3.08	3.09	1.01	0.850 to 1.15	99.5	70.0 to 130	0.235	20.0
BB09290	Cobalt, Total	mg/L	-0.0000064	0.000147	0.10	0.101	0.104	0.0988	0.0850 to 0.115	100	70.0 to 130	3.14	20.0
BB09290	Lithium, Total	mg/L	0.000146	0.0154	0.20	0.217	0.216	0.199	0.170 to 0.230	108	70.0 to 130	0.339	20.0
BB09290	Beryllium, Total	mg/L	0.0000218	0.000880	0.10	0.0988	0.0987	0.105	0.0850 to 0.115	98.8	70.0 to 130	0.0677	20.0
BB09290	Calcium, Total	mg/L	0.0516	0.152	5.00	44.8	45.3	5.17	4.25 to 5.75	86.4	70.0 to 130	1.14	20.0
BB09290	Iron, Total	mg/L	0.00139	0.0176	0.2	78.5	79.6	0.204	0.170 to 0.230	-1190	70.0 to 130	1.39	20.0
BB09290	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.0979	0.0964	0.0916	0.0850 to 0.115	97.7	70.0 to 130	1.53	20.0
BB09290	Thallium, Total	mg/L	-0.0000022	0.000147	0.10	0.103	0.107	0.102	0.0850 to 0.115	103	70.0 to 130	3.22	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/18/21 08:46

Customer ID:

Delivery Date: 5/19/21 13:53

Description: Barry Ash Pond - MW-1V

Laboratory ID Number: BB09283

Sample	Analysis	Units	MB	MB			Sample		Standard		Rec		Prec	Limit
				Limit	Spike	MS	Duplicate	Standard	Limit	Rec	Limit			
BB09283	Fluoride	mg/L	0.0236	0.100	2.50	2.57	0.0472	2.63	2.25 to 2.75	103	80.0 to 120	0.00	20.0	
BB09283	Chloride	mg/L	-0.055	1.00	100	197	81.2	10.0	9.00 to 11.0	118	80.0 to 120	2.12	20.0	
BB09283	Sulfate	mg/L	-0.0687	1.00	20.0	34.8	16.0	19.6	18.0 to 22.0	94.0	80.0 to 120	0.00	20.0	
BB09283	Solids, Dissolved	mg/L	0.0000	25.0			190	51.0	40.0 to 60.0			0.264	5.00	
BB09406	Alkalinity, Total as CaCO3	mg/L					273	51.6	45.0 to 55.0			2.17	10.0	

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-1V DUP

Location Code: WMWBARAP
Collected: 5/18/21 08:46
Customer ID:
Submittal Date: 5/19/21 13:53

Laboratory ID Number: BB09284

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	6/1/21 09:55	6/4/21 09:58		1.015	0.0337	mg/L	0.030000	0.1015	J
* Calcium, Total	6/1/21 09:55	6/4/21 09:58		1.015	3.82	mg/L	0.070035	0.406	
* Iron, Total	6/1/21 09:55	6/4/21 09:58		1.015	1.55	mg/L	0.008120	0.0406	
* Lithium, Total	6/1/21 09:55	6/4/21 09:58		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/1/21 09:55	6/4/21 09:58		1.015	2.26	mg/L	0.021315	0.406	
* Sodium, Total	6/1/21 09:55	6/4/21 15:44		20.3	54.7	mg/L	0.609	8.12	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	6/1/21 06:55	6/2/21 11:27		1.015	1.62	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	6/1/21 09:55	6/2/21 14:33		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	6/1/21 09:55	6/2/21 14:33		1.015	0.00142	mg/L	0.000068	0.000203	
* Barium, Total	6/1/21 09:55	6/2/21 14:33		1.015	0.0851	mg/L	0.000101	0.000203	
* Beryllium, Total	6/1/21 09:55	6/2/21 14:33		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/21 09:55	6/2/21 14:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/21 09:55	6/2/21 14:33		1.015	0.000475	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/1/21 09:55	6/2/21 14:33		1.015	0.00492	mg/L	0.000068	0.000203	
* Lead, Total	6/1/21 09:55	6/2/21 14:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	6/1/21 09:55	6/2/21 14:33		1.015	0.000235	mg/L	0.000068	0.000203	
* Potassium, Total	6/1/21 09:55	6/2/21 14:33		1.015	2.24	mg/L	0.169505	0.5075	
* Manganese, Total	6/1/21 09:55	6/2/21 14:33		1.015	0.144	mg/L	0.000068	0.000203	
* Selenium, Total	6/1/21 09:55	6/2/21 14:33		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	6/1/21 09:55	6/2/21 14:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	6/1/21 06:55	6/1/21 10:32		1.015	0.146	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	5/27/21 12:09	5/28/21 12:32		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	5/27/21 11:13	5/27/21 12:22		1	25.2	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	5/20/21 16:30	5/24/21 08:30		1	189	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-1V DUP

Location Code: WMWBARAP
Collected: 5/18/21 08:46
Customer ID:
Submittal Date: 5/19/21 13:53

Laboratory ID Number: BB09284

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	5/27/21 11:13	5/27/21 12:22		1	25.2	mg/L			
Carbonate Alkalinity, (calc.)	5/27/21 11:13	5/27/21 12:22		1	0.00	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	6/3/21 09:19	6/3/21 09:19		8	76.4	mg/L	4.00	8	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/4/21 09:38	6/4/21 09:38		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/19/21 16:22	5/19/21 16:22		1	15.8	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	5/18/21 08:43	5/18/21 08:43			329.63	uS/cm			FA
pH	5/18/21 08:43	5/18/21 08:43			5.55	SU			FA
Temperature	5/18/21 08:43	5/18/21 08:43			21.10	C			FA
Turbidity	5/18/21 08:43	5/18/21 08:43			1.82	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/18/21 08:46

Customer ID:

Delivery Date: 5/19/21 13:53

Description: Barry Ash Pond - MW-1V DUP

Laboratory ID Number: BB09284

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB09290	Lead, Total	mg/L	0.0000023	0.000147	0.10	0.108	0.106	0.106	0.0850 to 0.115	108	70.0 to 130	1.92	20.0
BB09290	Chromium, Total	mg/L	-0.0000409	0.000440	0.10	0.100	0.104	0.0993	0.0850 to 0.115	99.3	70.0 to 130	3.75	20.0
BB09290	Sodium, Total	mg/L	0.00332	0.0660	5.00	25.7	25.6	5.15	4.25 to 5.75	110	70.0 to 130	0.366	20.0
BB09290	Antimony, Total	mg/L	0.000101	0.00100	0.10	0.104	0.100	0.0969	0.0850 to 0.115	104	70.0 to 130	3.18	20.0
BB09290	Selenium, Total	mg/L	-0.0000201	0.00100	0.10	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	1.35	20.0
BB09290	Manganese, Total	mg/L	-0.0000455	0.000147	0.10	2.11	2.10	0.102	0.0850 to 0.115	121	70.0 to 130	0.170	20.0
BB09290	Arsenic, Total	mg/L	-0.0000014	0.000147	0.10	0.151	0.145	0.108	0.0850 to 0.115	108	70.0 to 130	4.02	20.0
BB09290	Barium, Total	mg/L	-0.0000216	0.000200	0.10	0.233	0.227	0.105	0.0850 to 0.115	108	70.0 to 130	2.46	20.0
BB09290	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0978	0.0975	0.0944	0.0850 to 0.115	97.8	70.0 to 130	0.328	20.0
BB09292	Iron, Dissolved	mg/L	-0.000111	0.0176	0.2	89.0	88.0	0.204	0.170 to 0.230	237	70.0 to 130	1.04	20.0
BB09290	Potassium, Total	mg/L	-0.00760	0.367	10.0	10.6	10.8	10.3	8.50 to 11.5	96.5	70.0 to 130	2.35	20.0
BB09290	Magnesium, Total	mg/L	0.000787	0.0462	5.00	16.8	16.7	5.13	4.25 to 5.75	103	70.0 to 130	0.217	20.0
BB09292	Manganese, Dissolved	mg/L	0.0000025	0.000147	0.10	1.38	1.37	0.103	0.0850 to 0.115	166	70.0 to 130	0.534	20.0
BB09290	Boron, Total	mg/L	0.00744	0.0650	1.00	3.08	3.09	1.01	0.850 to 1.15	99.5	70.0 to 130	0.235	20.0
BB09290	Cobalt, Total	mg/L	-0.0000064	0.000147	0.10	0.101	0.104	0.0988	0.0850 to 0.115	100	70.0 to 130	3.14	20.0
BB09290	Lithium, Total	mg/L	0.000146	0.0154	0.20	0.217	0.216	0.199	0.170 to 0.230	108	70.0 to 130	0.339	20.0
BB09290	Beryllium, Total	mg/L	0.0000218	0.000880	0.10	0.0988	0.0987	0.105	0.0850 to 0.115	98.8	70.0 to 130	0.0677	20.0
BB09290	Calcium, Total	mg/L	0.0516	0.152	5.00	44.8	45.3	5.17	4.25 to 5.75	86.4	70.0 to 130	1.14	20.0
BB09290	Iron, Total	mg/L	0.00139	0.0176	0.2	78.5	79.6	0.204	0.170 to 0.230	-1190	70.0 to 130	1.39	20.0
BB09290	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.0979	0.0964	0.0916	0.0850 to 0.115	97.7	70.0 to 130	1.53	20.0
BB09290	Thallium, Total	mg/L	-0.0000022	0.000147	0.10	0.103	0.107	0.102	0.0850 to 0.115	103	70.0 to 130	3.22	20.0
BB09293	Mercury, Total by CVAA	mg/L	0.0000403	0.000500	0.004	0.00409	0.00411	0.00408	0.00340 to 0.00460	102	70.0 to 130	0.629	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/18/21 08:46

Customer ID:

Delivery Date: 5/19/21 13:53

Description: Barry Ash Pond - MW-1V DUP

Laboratory ID Number: BB09284

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB09293	Fluoride	mg/L	0.0154	0.100	2.50	2.65	0.0718	2.63	2.25 to 2.75	104	80.0 to 120	15.6	20.0
BB09292	Solids, Dissolved	mg/L	0.0000	25.0			333	51.0	40.0 to 60.0			0.604	5.00
BB09406	Alkalinity, Total as CaCO3	mg/L					273	51.6	45.0 to 55.0			2.17	10.0
BB09293	Chloride	mg/L	-0.0529	1.00	40.0	72.2	24.1	10.1	9.00 to 11.0	117	80.0 to 120	5.25	20.0
BB09293	Sulfate	mg/L	-0.282	1.00	20.0	43.9	24.9	20.0	18.0 to 22.0	94.0	80.0 to 120	0.800	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-1

Location Code: WMWBARAP
Collected: 5/18/21 11:14
Customer ID:
Submittal Date: 5/19/21 13:53

Laboratory ID Number: BB09285

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	6/1/21 09:55	6/4/21 10:02		1.015	1.99	mg/L	0.030000	0.1015	
* Calcium, Total	6/1/21 09:55	6/4/21 10:02		1.015	39.5	mg/L	0.070035	0.406	
* Iron, Total	6/1/21 09:55	6/4/21 15:47		101.5	147	mg/L	0.8120	4.06	
* Lithium, Total	6/1/21 09:55	6/4/21 10:02		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/1/21 09:55	6/4/21 10:02		1.015	12.8	mg/L	0.021315	0.406	
* Sodium, Total	6/1/21 09:55	6/4/21 10:02		1.015	25.4	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	6/1/21 06:55	6/2/21 14:24		101.5	152	mg/L	0.8120	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	6/1/21 09:55	6/2/21 14:36		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	6/1/21 09:55	6/2/21 14:36		1.015	0.0687	mg/L	0.000068	0.000203	
* Barium, Total	6/1/21 09:55	6/2/21 14:36		1.015	0.339	mg/L	0.000101	0.000203	
* Beryllium, Total	6/1/21 09:55	6/2/21 14:36		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/21 09:55	6/2/21 14:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/21 09:55	6/2/21 14:36		1.015	0.00294	mg/L	0.000203	0.001015	
* Cobalt, Total	6/1/21 09:55	6/2/21 14:36		1.015	0.000996	mg/L	0.000068	0.000203	
* Lead, Total	6/1/21 09:55	6/2/21 14:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	6/1/21 09:55	6/2/21 14:36		1.015	0.000106	mg/L	0.000068	0.000203	J
* Potassium, Total	6/1/21 09:55	6/2/21 14:36		1.015	2.09	mg/L	0.169505	0.5075	
* Manganese, Total	6/1/21 09:55	6/2/21 14:36		1.015	0.849	mg/L	0.000068	0.000203	
* Selenium, Total	6/1/21 09:55	6/2/21 14:36		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	6/1/21 09:55	6/2/21 14:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	6/1/21 06:55	6/1/21 10:36		1.015	0.862	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	5/27/21 12:09	5/28/21 12:35		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	5/27/21 11:13	5/27/21 12:22		1	391	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	5/20/21 16:30	5/24/21 08:30		1	450	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-1

Location Code: WMWBARAP
Collected: 5/18/21 11:14
Customer ID:
Submittal Date: 5/19/21 13:53

Laboratory ID Number: BB09285

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	5/27/21 11:13	5/27/21 12:22		1	391	mg/L			
Carbonate Alkalinity, (calc.)	5/27/21 11:13	5/27/21 12:22		1	0.04	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	6/3/21 09:31	6/3/21 09:31		2	25.1	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/4/21 09:39	6/4/21 09:39		1	0.0884	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/19/21 16:26	5/19/21 16:26		1	16.5	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	5/18/21 11:11	5/18/21 11:11			761.59	uS/cm			FA
pH	5/18/21 11:11	5/18/21 11:11			5.86	SU			FA
Temperature	5/18/21 11:11	5/18/21 11:11			22.10	C			FA
Turbidity	5/18/21 11:11	5/18/21 11:11			3.04	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/18/21 11:14

Customer ID:

Delivery Date: 5/19/21 13:53

Description: Barry Ash Pond - MW-1

Laboratory ID Number: BB09285

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB09290	Lead, Total	mg/L	0.000023	0.000147	0.10	0.108	0.106	0.106	0.0850 to 0.115	108	70.0 to 130	1.92	20.0
BB09290	Chromium, Total	mg/L	-0.0000409	0.000440	0.10	0.100	0.104	0.0993	0.0850 to 0.115	99.3	70.0 to 130	3.75	20.0
BB09290	Sodium, Total	mg/L	0.00332	0.0660	5.00	25.7	25.6	5.15	4.25 to 5.75	110	70.0 to 130	0.366	20.0
BB09290	Antimony, Total	mg/L	0.000101	0.00100	0.10	0.104	0.100	0.0969	0.0850 to 0.115	104	70.0 to 130	3.18	20.0
BB09290	Selenium, Total	mg/L	-0.0000201	0.00100	0.10	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	1.35	20.0
BB09290	Arsenic, Total	mg/L	-0.0000014	0.000147	0.10	0.151	0.145	0.108	0.0850 to 0.115	108	70.0 to 130	4.02	20.0
BB09290	Barium, Total	mg/L	-0.0000216	0.000200	0.10	0.233	0.227	0.105	0.0850 to 0.115	108	70.0 to 130	2.46	20.0
BB09290	Manganese, Total	mg/L	-0.0000455	0.000147	0.10	2.11	2.10	0.102	0.0850 to 0.115	121	70.0 to 130	0.170	20.0
BB09290	Beryllium, Total	mg/L	0.0000218	0.000880	0.10	0.0988	0.0987	0.105	0.0850 to 0.115	98.8	70.0 to 130	0.0677	20.0
BB09290	Calcium, Total	mg/L	0.0516	0.152	5.00	44.8	45.3	5.17	4.25 to 5.75	86.4	70.0 to 130	1.14	20.0
BB09290	Iron, Total	mg/L	0.00139	0.0176	0.2	78.5	79.6	0.204	0.170 to 0.230	-1190	70.0 to 130	1.39	20.0
BB09290	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.0979	0.0964	0.0916	0.0850 to 0.115	97.7	70.0 to 130	1.53	20.0
BB09290	Thallium, Total	mg/L	-0.0000022	0.000147	0.10	0.103	0.107	0.102	0.0850 to 0.115	103	70.0 to 130	3.22	20.0
BB09293	Mercury, Total by CVAA	mg/L	0.0000403	0.000500	0.004	0.00409	0.00411	0.00408	0.00340 to 0.00460	102	70.0 to 130	0.629	20.0
BB09290	Potassium, Total	mg/L	-0.00760	0.367	10.0	10.6	10.8	10.3	8.50 to 11.5	96.5	70.0 to 130	2.35	20.0
BB09290	Magnesium, Total	mg/L	0.000787	0.0462	5.00	16.8	16.7	5.13	4.25 to 5.75	103	70.0 to 130	0.217	20.0
BB09292	Manganese, Dissolved	mg/L	0.0000025	0.000147	0.10	1.38	1.37	0.103	0.0850 to 0.115	166	70.0 to 130	0.534	20.0
BB09290	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0978	0.0975	0.0944	0.0850 to 0.115	97.8	70.0 to 130	0.328	20.0
BB09292	Iron, Dissolved	mg/L	-0.000111	0.0176	0.2	89.0	88.0	0.204	0.170 to 0.230	237	70.0 to 130	1.04	20.0
BB09290	Boron, Total	mg/L	0.00744	0.0650	1.00	3.08	3.09	1.01	0.850 to 1.15	99.5	70.0 to 130	0.235	20.0
BB09290	Cobalt, Total	mg/L	-0.0000064	0.000147	0.10	0.101	0.104	0.0988	0.0850 to 0.115	100	70.0 to 130	3.14	20.0
BB09290	Lithium, Total	mg/L	0.000146	0.0154	0.20	0.217	0.216	0.199	0.170 to 0.230	108	70.0 to 130	0.339	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/18/21 11:14

Customer ID:

Delivery Date: 5/19/21 13:53

Description: Barry Ash Pond - MW-1

Laboratory ID Number: BB09285

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB09406	Alkalinity, Total as CaCO3	mg/L					273	51.6	45.0 to 55.0			2.17	10.0
BB09293	Fluoride	mg/L	0.0154	0.100	2.50	2.65	0.0718	2.63	2.25 to 2.75	104	80.0 to 120	15.6	20.0
BB09292	Solids, Dissolved	mg/L	0.0000	25.0			333	51.0	40.0 to 60.0			0.604	5.00
BB09293	Chloride	mg/L	-0.0529	1.00	40.0	72.2	24.1	10.1	9.00 to 11.0	117	80.0 to 120	5.25	20.0
BB09293	Sulfate	mg/L	-0.282	1.00	20.0	43.9	24.9	20.0	18.0 to 22.0	94.0	80.0 to 120	0.800	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-2

Location Code: WMWBARAP
Collected: 5/18/21 12:06
Customer ID:
Submittal Date: 5/19/21 13:53

Laboratory ID Number: BB09286

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	6/1/21 09:55	6/4/21 10:05		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	6/1/21 09:55	6/4/21 10:05		1.015	3.17	mg/L	0.070035	0.406	
* Iron, Total	6/1/21 09:55	6/4/21 10:05		1.015	0.543	mg/L	0.008120	0.0406	
* Lithium, Total	6/1/21 09:55	6/4/21 10:05		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/1/21 09:55	6/4/21 10:05		1.015	2.03	mg/L	0.021315	0.406	
* Sodium, Total	6/1/21 09:55	6/4/21 10:05		1.015	4.18	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	6/1/21 06:55	6/2/21 11:33		1.015	0.538	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	6/1/21 09:55	6/2/21 14:40		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	6/1/21 09:55	6/2/21 14:40		1.015	0.00159	mg/L	0.000068	0.000203	
* Barium, Total	6/1/21 09:55	6/2/21 14:40		1.015	0.0259	mg/L	0.000101	0.000203	
* Beryllium, Total	6/1/21 09:55	6/2/21 14:40		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/21 09:55	6/2/21 14:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/21 09:55	6/2/21 14:40		1.015	0.000394	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/1/21 09:55	6/2/21 14:40		1.015	0.00746	mg/L	0.000068	0.000203	
* Lead, Total	6/1/21 09:55	6/2/21 14:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	6/1/21 09:55	6/2/21 14:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	6/1/21 09:55	6/2/21 14:40		1.015	1.04	mg/L	0.169505	0.5075	
* Manganese, Total	6/1/21 09:55	6/2/21 14:40		1.015	0.347	mg/L	0.000068	0.000203	
* Selenium, Total	6/1/21 09:55	6/2/21 14:40		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	6/1/21 09:55	6/2/21 14:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	6/1/21 06:55	6/1/21 10:40		1.015	0.353	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	5/27/21 12:09	5/28/21 12:37		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	5/27/21 11:13	5/27/21 12:22		1	16.8	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	5/20/21 16:30	5/24/21 08:30		1	48.7	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-2

Location Code: WMWBARAP
Collected: 5/18/21 12:06
Customer ID:
Submittal Date: 5/19/21 13:53

Laboratory ID Number: BB09286

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	5/27/21 11:13	5/27/21 12:22		1	16.8	mg/L			
Carbonate Alkalinity, (calc.)	5/27/21 11:13	5/27/21 12:22		1	0.00	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	6/3/21 09:21	6/3/21 09:21		1	7.89	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/4/21 09:41	6/4/21 09:41		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/19/21 16:25	5/19/21 16:25		1	Not Detected	mg/L	0.50	1	U
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	5/18/21 12:02	5/18/21 12:02			58.01	uS/cm			FA
pH	5/18/21 12:02	5/18/21 12:02			5.83	SU			FA
Temperature	5/18/21 12:02	5/18/21 12:02			22.11	C			FA
Turbidity	5/18/21 12:02	5/18/21 12:02			1.09	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/18/21 12:06

Customer ID:

Delivery Date: 5/19/21 13:53

Description: Barry Ash Pond - MW-2

Laboratory ID Number: BB09286

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB09290	Lead, Total	mg/L	0.000023	0.000147	0.10	0.108	0.106	0.106	0.0850 to 0.115	108	70.0 to 130	1.92	20.0
BB09290	Manganese, Total	mg/L	-0.0000455	0.000147	0.10	2.11	2.10	0.102	0.0850 to 0.115	121	70.0 to 130	0.170	20.0
BB09290	Potassium, Total	mg/L	-0.00760	0.367	10.0	10.6	10.8	10.3	8.50 to 11.5	96.5	70.0 to 130	2.35	20.0
BB09290	Magnesium, Total	mg/L	0.000787	0.0462	5.00	16.8	16.7	5.13	4.25 to 5.75	103	70.0 to 130	0.217	20.0
BB09292	Manganese, Dissolved	mg/L	0.0000025	0.000147	0.10	1.38	1.37	0.103	0.0850 to 0.115	166	70.0 to 130	0.534	20.0
BB09290	Chromium, Total	mg/L	-0.0000409	0.000440	0.10	0.100	0.104	0.0993	0.0850 to 0.115	99.3	70.0 to 130	3.75	20.0
BB09290	Sodium, Total	mg/L	0.00332	0.0660	5.00	25.7	25.6	5.15	4.25 to 5.75	110	70.0 to 130	0.366	20.0
BB09290	Antimony, Total	mg/L	0.000101	0.00100	0.10	0.104	0.100	0.0969	0.0850 to 0.115	104	70.0 to 130	3.18	20.0
BB09290	Selenium, Total	mg/L	-0.0000201	0.00100	0.10	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	1.35	20.0
BB09290	Beryllium, Total	mg/L	0.0000218	0.000880	0.10	0.0988	0.0987	0.105	0.0850 to 0.115	98.8	70.0 to 130	0.0677	20.0
BB09290	Calcium, Total	mg/L	0.0516	0.152	5.00	44.8	45.3	5.17	4.25 to 5.75	86.4	70.0 to 130	1.14	20.0
BB09290	Iron, Total	mg/L	0.00139	0.0176	0.2	78.5	79.6	0.204	0.170 to 0.230	-1190	70.0 to 130	1.39	20.0
BB09290	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.0979	0.0964	0.0916	0.0850 to 0.115	97.7	70.0 to 130	1.53	20.0
BB09290	Thallium, Total	mg/L	-0.0000022	0.000147	0.10	0.103	0.107	0.102	0.0850 to 0.115	103	70.0 to 130	3.22	20.0
BB09293	Mercury, Total by CVAA	mg/L	0.0000403	0.000500	0.004	0.00409	0.00411	0.00408	0.00340 to 0.00460	102	70.0 to 130	0.629	20.0
BB09290	Boron, Total	mg/L	0.00744	0.0650	1.00	3.08	3.09	1.01	0.850 to 1.15	99.5	70.0 to 130	0.235	20.0
BB09290	Cobalt, Total	mg/L	-0.0000064	0.000147	0.10	0.101	0.104	0.0988	0.0850 to 0.115	100	70.0 to 130	3.14	20.0
BB09290	Lithium, Total	mg/L	0.000146	0.0154	0.20	0.217	0.216	0.199	0.170 to 0.230	108	70.0 to 130	0.339	20.0
BB09290	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0978	0.0975	0.0944	0.0850 to 0.115	97.8	70.0 to 130	0.328	20.0
BB09292	Iron, Dissolved	mg/L	-0.000111	0.0176	0.2	89.0	88.0	0.204	0.170 to 0.230	237	70.0 to 130	1.04	20.0
BB09290	Arsenic, Total	mg/L	-0.0000014	0.000147	0.10	0.151	0.145	0.108	0.0850 to 0.115	108	70.0 to 130	4.02	20.0
BB09290	Barium, Total	mg/L	-0.0000216	0.000200	0.10	0.233	0.227	0.105	0.0850 to 0.115	108	70.0 to 130	2.46	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/18/21 12:06

Customer ID:

Delivery Date: 5/19/21 13:53

Description: Barry Ash Pond - MW-2

Laboratory ID Number: BB09286

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB09406	Alkalinity, Total as CaCO3	mg/L					273	51.6	45.0 to 55.0			2.17	10.0
BB09293	Fluoride	mg/L	0.0154	0.100	2.50	2.65	0.0718	2.63	2.25 to 2.75	104	80.0 to 120	15.6	20.0
BB09292	Solids, Dissolved	mg/L	0.0000	25.0			333	51.0	40.0 to 60.0			0.604	5.00
BB09293	Chloride	mg/L	-0.0529	1.00	40.0	72.2	24.1	10.1	9.00 to 11.0	117	80.0 to 120	5.25	20.0
BB09293	Sulfate	mg/L	-0.282	1.00	20.0	43.9	24.9	20.0	18.0 to 22.0	94.0	80.0 to 120	0.800	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-3

Location Code: WMWBARAP
Collected: 5/18/21 13:28
Customer ID:
Submittal Date: 5/19/21 13:53

Laboratory ID Number: BB09287

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	6/1/21 09:55	6/4/21 10:08		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	6/1/21 09:55	6/4/21 10:08		1.015	1.12	mg/L	0.070035	0.406	
* Iron, Total	6/1/21 09:55	6/4/21 10:08		1.015	0.0188	mg/L	0.008120	0.0406	J
* Lithium, Total	6/1/21 09:55	6/4/21 10:08		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/1/21 09:55	6/4/21 10:08		1.015	0.863	mg/L	0.021315	0.406	
* Sodium, Total	6/1/21 09:55	6/4/21 10:08		1.015	4.87	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA						
* Iron, Dissolved	6/1/21 06:55	6/2/21 11:37		1.015	0.0103	mg/L	0.008120	0.0406	J
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	6/1/21 09:55	6/2/21 14:44		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	6/1/21 09:55	6/2/21 14:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	6/1/21 09:55	6/2/21 14:44		1.015	0.0406	mg/L	0.000101	0.000203	
* Beryllium, Total	6/1/21 09:55	6/2/21 14:44		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/21 09:55	6/2/21 14:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/21 09:55	6/2/21 14:44		1.015	0.000919	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/1/21 09:55	6/2/21 14:44		1.015	0.000196	mg/L	0.000068	0.000203	J
* Lead, Total	6/1/21 09:55	6/2/21 14:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	6/1/21 09:55	6/2/21 14:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	6/1/21 09:55	6/2/21 14:44		1.015	1.05	mg/L	0.169505	0.5075	
* Manganese, Total	6/1/21 09:55	6/2/21 14:44		1.015	0.00690	mg/L	0.000068	0.000203	
* Selenium, Total	6/1/21 09:55	6/2/21 14:44		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	6/1/21 09:55	6/2/21 14:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8			Analyst: DLJ						
* Manganese, Dissolved	6/1/21 06:55	6/1/21 10:43		1.015	0.00691	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	5/27/21 12:09	5/28/21 12:40		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B			Analyst: JAG						
Alkalinity, Total as CaCO3	5/27/21 11:13	5/27/21 12:22		1	2.76	mg/L		0.1	
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	5/24/21 10:46	5/26/21 12:50		1	38.0	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-3

Location Code: WMWBARAP
Collected: 5/18/21 13:28
Customer ID:
Submittal Date: 5/19/21 13:53

Laboratory ID Number: BB09287

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	5/27/21 11:13	5/27/21 12:22		1	2.76	mg/L			
Carbonate Alkalinity, (calc.)	5/27/21 11:13	5/27/21 12:22		1	0.00	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	6/3/21 09:22	6/3/21 09:22		1	9.52	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/4/21 09:42	6/4/21 09:42		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/19/21 16:27	5/19/21 16:27		1	0.883	mg/L	0.50	1	J
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	5/18/21 13:25	5/18/21 13:25			42.90	uS/cm			FA
pH	5/18/21 13:25	5/18/21 13:25			4.93	SU			FA
Temperature	5/18/21 13:25	5/18/21 13:25			22.26	C			FA
Turbidity	5/18/21 13:25	5/18/21 13:25			0.72	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/18/21 13:28

Customer ID:

Delivery Date: 5/19/21 13:53

Description: Barry Ash Pond - MW-3

Laboratory ID Number: BB09287

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB09290	Lead, Total	mg/L	0.0000023	0.000147	0.10	0.108	0.106	0.106	0.0850 to 0.115	108	70.0 to 130	1.92	20.0
BB09290	Chromium, Total	mg/L	-0.0000409	0.000440	0.10	0.100	0.104	0.0993	0.0850 to 0.115	99.3	70.0 to 130	3.75	20.0
BB09290	Sodium, Total	mg/L	0.00332	0.0660	5.00	25.7	25.6	5.15	4.25 to 5.75	110	70.0 to 130	0.366	20.0
BB09290	Antimony, Total	mg/L	0.000101	0.00100	0.10	0.104	0.100	0.0969	0.0850 to 0.115	104	70.0 to 130	3.18	20.0
BB09290	Selenium, Total	mg/L	-0.0000201	0.00100	0.10	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	1.35	20.0
BB09290	Potassium, Total	mg/L	-0.00760	0.367	10.0	10.6	10.8	10.3	8.50 to 11.5	96.5	70.0 to 130	2.35	20.0
BB09290	Magnesium, Total	mg/L	0.000787	0.0462	5.00	16.8	16.7	5.13	4.25 to 5.75	103	70.0 to 130	0.217	20.0
BB09292	Manganese, Dissolved	mg/L	0.0000025	0.000147	0.10	1.38	1.37	0.103	0.0850 to 0.115	166	70.0 to 130	0.534	20.0
BB09290	Manganese, Total	mg/L	-0.0000455	0.000147	0.10	2.11	2.10	0.102	0.0850 to 0.115	121	70.0 to 130	0.170	20.0
BB09290	Beryllium, Total	mg/L	0.0000218	0.000880	0.10	0.0988	0.0987	0.105	0.0850 to 0.115	98.8	70.0 to 130	0.0677	20.0
BB09290	Calcium, Total	mg/L	0.0516	0.152	5.00	44.8	45.3	5.17	4.25 to 5.75	86.4	70.0 to 130	1.14	20.0
BB09290	Iron, Total	mg/L	0.00139	0.0176	0.2	78.5	79.6	0.204	0.170 to 0.230	-1190	70.0 to 130	1.39	20.0
BB09290	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.0979	0.0964	0.0916	0.0850 to 0.115	97.7	70.0 to 130	1.53	20.0
BB09290	Thallium, Total	mg/L	-0.0000022	0.000147	0.10	0.103	0.107	0.102	0.0850 to 0.115	103	70.0 to 130	3.22	20.0
BB09293	Mercury, Total by CVAA	mg/L	0.0000403	0.000500	0.004	0.00409	0.00411	0.00408	0.00340 to 0.00460	102	70.0 to 130	0.629	20.0
BB09290	Boron, Total	mg/L	0.00744	0.0650	1.00	3.08	3.09	1.01	0.850 to 1.15	99.5	70.0 to 130	0.235	20.0
BB09290	Cobalt, Total	mg/L	-0.0000064	0.000147	0.10	0.101	0.104	0.0988	0.0850 to 0.115	100	70.0 to 130	3.14	20.0
BB09290	Lithium, Total	mg/L	0.000146	0.0154	0.20	0.217	0.216	0.199	0.170 to 0.230	108	70.0 to 130	0.339	20.0
BB09290	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0978	0.0975	0.0944	0.0850 to 0.115	97.8	70.0 to 130	0.328	20.0
BB09292	Iron, Dissolved	mg/L	-0.000111	0.0176	0.2	89.0	88.0	0.204	0.170 to 0.230	237	70.0 to 130	1.04	20.0
BB09290	Arsenic, Total	mg/L	-0.0000014	0.000147	0.10	0.151	0.145	0.108	0.0850 to 0.115	108	70.0 to 130	4.02	20.0
BB09290	Barium, Total	mg/L	-0.0000216	0.000200	0.10	0.233	0.227	0.105	0.0850 to 0.115	108	70.0 to 130	2.46	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/18/21 13:28

Customer ID:

Delivery Date: 5/19/21 13:53

Description: Barry Ash Pond - MW-3

Laboratory ID Number: BB09287

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB09279	Solids, Dissolved	mg/L	-2.00	25.0			177	53.0	40.0 to 60.0			2.61	5.00
BB09406	Alkalinity, Total as CaCO3	mg/L					273	51.6	45.0 to 55.0			2.17	10.0
BB09293	Fluoride	mg/L	0.0154	0.100	2.50	2.65	0.0718	2.63	2.25 to 2.75	104	80.0 to 120	15.6	20.0
BB09293	Chloride	mg/L	-0.0529	1.00	40.0	72.2	24.1	10.1	9.00 to 11.0	117	80.0 to 120	5.25	20.0
BB09293	Sulfate	mg/L	-0.282	1.00	20.0	43.9	24.9	20.0	18.0 to 22.0	94.0	80.0 to 120	0.800	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-4

Location Code: WMWBARAP
Collected: 5/18/21 14:29
Customer ID:
Submittal Date: 5/19/21 13:53

Laboratory ID Number: BB09288

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	6/1/21 09:55	6/4/21 10:12		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	6/1/21 09:55	6/4/21 10:12		1.015	0.974	mg/L	0.070035	0.406	
* Iron, Total	6/1/21 09:55	6/4/21 10:12		1.015	0.0689	mg/L	0.008120	0.0406	
* Lithium, Total	6/1/21 09:55	6/4/21 10:12		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/1/21 09:55	6/4/21 10:12		1.015	0.689	mg/L	0.021315	0.406	
* Sodium, Total	6/1/21 09:55	6/4/21 10:12		1.015	4.14	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Iron, Dissolved	6/1/21 06:55	6/2/21 11:40		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	6/1/21 09:55	6/2/21 14:47		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	6/1/21 09:55	6/2/21 14:47		1.015	0.000125	mg/L	0.000068	0.000203	J
* Barium, Total	6/1/21 09:55	6/2/21 14:47		1.015	0.0225	mg/L	0.000101	0.000203	
* Beryllium, Total	6/1/21 09:55	6/2/21 14:47		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/21 09:55	6/2/21 14:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/21 09:55	6/2/21 14:47		1.015	0.000544	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/1/21 09:55	6/2/21 14:47		1.015	0.0180	mg/L	0.000068	0.000203	
* Lead, Total	6/1/21 09:55	6/2/21 14:47		1.015	0.000130	mg/L	0.000068	0.000203	J
* Molybdenum, Total	6/1/21 09:55	6/2/21 14:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	6/1/21 09:55	6/2/21 14:47		1.015	1.16	mg/L	0.169505	0.5075	
* Manganese, Total	6/1/21 09:55	6/2/21 14:47		1.015	0.0153	mg/L	0.000068	0.000203	
* Selenium, Total	6/1/21 09:55	6/2/21 14:47		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	6/1/21 09:55	6/2/21 14:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Manganese, Dissolved	6/1/21 06:55	6/1/21 10:47		1.015	0.0149	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB			Preparation Method: EPA 1638				
* Mercury, Total by CVAA	5/27/21 12:09	5/28/21 12:42		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG			Preparation Method: EPA 1638				
Alkalinity, Total as CaCO3	5/27/21 11:13	5/27/21 12:22		1	Not Detected	mg/L		0.1	U
Analytical Method: SM 2540C		Analyst: TJW			Preparation Method: EPA 1638				
* Solids, Dissolved	5/24/21 10:46	5/26/21 12:50		1	47.3	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-4

Location Code: WMWBARAP
Collected: 5/18/21 14:29
Customer ID:
Submittal Date: 5/19/21 13:53

Laboratory ID Number: BB09288

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	5/27/21 11:13	5/27/21 12:22		1	Not Detected	mg/L			
Carbonate Alkalinity, (calc.)	5/27/21 11:13	5/27/21 12:22		1	Not Detected	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	6/3/21 09:24	6/3/21 09:24		1	9.53	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/4/21 09:43	6/4/21 09:43		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/19/21 16:28	5/19/21 16:28		1	4.43	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	5/18/21 14:26	5/18/21 14:26			49.28	uS/cm			FA
pH	5/18/21 14:26	5/18/21 14:26			4.17	SU			FA
Temperature	5/18/21 14:26	5/18/21 14:26			21.85	C			FA
Turbidity	5/18/21 14:26	5/18/21 14:26			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.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/18/21 14:29

Customer ID:

Delivery Date: 5/19/21 13:53

Description: Barry Ash Pond - MW-4

Laboratory ID Number: BB09288

Sample	Analysis	Units	MB					Standard		Rec			Prec Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BB09290	Lead, Total	mg/L	0.0000023	0.000147	0.10	0.108	0.106	0.106	0.0850 to 0.115	108	70.0 to 130	1.92	20.0
BB09290	Manganese, Total	mg/L	-0.0000455	0.000147	0.10	2.11	2.10	0.102	0.0850 to 0.115	121	70.0 to 130	0.170	20.0
BB09290	Potassium, Total	mg/L	-0.00760	0.367	10.0	10.6	10.8	10.3	8.50 to 11.5	96.5	70.0 to 130	2.35	20.0
BB09290	Magnesium, Total	mg/L	0.000787	0.0462	5.00	16.8	16.7	5.13	4.25 to 5.75	103	70.0 to 130	0.217	20.0
BB09292	Manganese, Dissolved	mg/L	0.0000025	0.000147	0.10	1.38	1.37	0.103	0.0850 to 0.115	166	70.0 to 130	0.534	20.0
BB09290	Arsenic, Total	mg/L	-0.0000014	0.000147	0.10	0.151	0.145	0.108	0.0850 to 0.115	108	70.0 to 130	4.02	20.0
BB09290	Barium, Total	mg/L	-0.0000216	0.000200	0.10	0.233	0.227	0.105	0.0850 to 0.115	108	70.0 to 130	2.46	20.0
BB09290	Chromium, Total	mg/L	-0.0000409	0.000440	0.10	0.100	0.104	0.0993	0.0850 to 0.115	99.3	70.0 to 130	3.75	20.0
BB09290	Sodium, Total	mg/L	0.00332	0.0660	5.00	25.7	25.6	5.15	4.25 to 5.75	110	70.0 to 130	0.366	20.0
BB09290	Antimony, Total	mg/L	0.000101	0.00100	0.10	0.104	0.100	0.0969	0.0850 to 0.115	104	70.0 to 130	3.18	20.0
BB09290	Selenium, Total	mg/L	-0.0000201	0.00100	0.10	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	1.35	20.0
BB09290	Boron, Total	mg/L	0.00744	0.0650	1.00	3.08	3.09	1.01	0.850 to 1.15	99.5	70.0 to 130	0.235	20.0
BB09290	Cobalt, Total	mg/L	-0.0000064	0.000147	0.10	0.101	0.104	0.0988	0.0850 to 0.115	100	70.0 to 130	3.14	20.0
BB09290	Lithium, Total	mg/L	0.000146	0.0154	0.20	0.217	0.216	0.199	0.170 to 0.230	108	70.0 to 130	0.339	20.0
BB09290	Beryllium, Total	mg/L	0.0000218	0.000880	0.10	0.0988	0.0987	0.105	0.0850 to 0.115	98.8	70.0 to 130	0.0677	20.0
BB09290	Calcium, Total	mg/L	0.0516	0.152	5.00	44.8	45.3	5.17	4.25 to 5.75	86.4	70.0 to 130	1.14	20.0
BB09290	Iron, Total	mg/L	0.00139	0.0176	0.2	78.5	79.6	0.204	0.170 to 0.230	-1190	70.0 to 130	1.39	20.0
BB09290	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.0979	0.0964	0.0916	0.0850 to 0.115	97.7	70.0 to 130	1.53	20.0
BB09290	Thallium, Total	mg/L	-0.0000022	0.000147	0.10	0.103	0.107	0.102	0.0850 to 0.115	103	70.0 to 130	3.22	20.0
BB09293	Mercury, Total by CVAA	mg/L	0.0000403	0.000500	0.004	0.00409	0.00411	0.00408	0.00340 to 0.00460	102	70.0 to 130	0.629	20.0
BB09290	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0978	0.0975	0.0944	0.0850 to 0.115	97.8	70.0 to 130	0.328	20.0
BB09292	Iron, Dissolved	mg/L	-0.000111	0.0176	0.2	89.0	88.0	0.204	0.170 to 0.230	237	70.0 to 130	1.04	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/18/21 14:29

Customer ID:

Delivery Date: 5/19/21 13:53

Description: Barry Ash Pond - MW-4

Laboratory ID Number: BB09288

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB09279	Solids, Dissolved	mg/L	-2.00	25.0			177	53.0	40.0 to 60.0			2.61	5.00
BB09406	Alkalinity, Total as CaCO3	mg/L					273	51.6	45.0 to 55.0			2.17	10.0
BB09293	Fluoride	mg/L	0.0154	0.100	2.50	2.65	0.0718	2.63	2.25 to 2.75	104	80.0 to 120	15.6	20.0
BB09293	Chloride	mg/L	-0.0529	1.00	40.0	72.2	24.1	10.1	9.00 to 11.0	117	80.0 to 120	5.25	20.0
BB09293	Sulfate	mg/L	-0.282	1.00	20.0	43.9	24.9	20.0	18.0 to 22.0	94.0	80.0 to 120	0.800	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-17H

Location Code: WMWBARAP
Collected: 5/17/21 13:55
Customer ID:
Submittal Date: 5/19/21 13:53

Laboratory ID Number: BB09289

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	6/1/21 09:55	6/4/21 10:15		1.015	0.0911	mg/L	0.030000	0.1015	J
* Calcium, Total	6/1/21 09:55	6/4/21 10:15		1.015	12.8	mg/L	0.070035	0.406	
* Iron, Total	6/1/21 09:55	6/4/21 15:51		101.5	83.2	mg/L	0.8120	4.06	
* Lithium, Total	6/1/21 09:55	6/4/21 10:15		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/1/21 09:55	6/4/21 10:15		1.015	5.33	mg/L	0.021315	0.406	
* Sodium, Total	6/1/21 09:55	6/4/21 10:15		1.015	21.2	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	6/1/21 06:55	6/2/21 14:28		101.5	84.6	mg/L	0.8120	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	6/1/21 09:55	6/2/21 14:51		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	6/1/21 09:55	6/2/21 14:51		1.015	0.0329	mg/L	0.000068	0.000203	
* Barium, Total	6/1/21 09:55	6/2/21 14:51		1.015	0.125	mg/L	0.000101	0.000203	
* Beryllium, Total	6/1/21 09:55	6/2/21 14:51		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/21 09:55	6/2/21 14:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/21 09:55	6/2/21 14:51		1.015	0.000627	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/1/21 09:55	6/2/21 14:51		1.015	0.00130	mg/L	0.000068	0.000203	
* Lead, Total	6/1/21 09:55	6/2/21 14:51		1.015	0.0000909	mg/L	0.000068	0.000203	J
* Molybdenum, Total	6/1/21 09:55	6/2/21 14:51		1.015	0.000469	mg/L	0.000068	0.000203	
* Potassium, Total	6/1/21 09:55	6/2/21 14:51		1.015	1.36	mg/L	0.169505	0.5075	
* Manganese, Total	6/1/21 09:55	6/2/21 14:51		1.015	0.395	mg/L	0.000068	0.000203	
* Selenium, Total	6/1/21 09:55	6/2/21 14:51		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	6/1/21 09:55	6/2/21 14:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	6/1/21 06:55	6/1/21 10:50		1.015	0.406	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	5/27/21 12:09	5/28/21 12:44		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	5/27/21 11:13	5/27/21 12:22		1	195	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	5/20/21 16:30	5/24/21 08:30		1	201	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-17H

Location Code: WMWBARAP
Collected: 5/17/21 13:55
Customer ID:
Submittal Date: 5/19/21 13:53

Laboratory ID Number: BB09289

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	5/27/21 11:13	5/27/21 12:22		1	195	mg/L			
Carbonate Alkalinity, (calc.)	5/27/21 11:13	5/27/21 12:22		1	0.04	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	6/3/21 09:25	6/3/21 09:25		1	17.1	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/4/21 09:44	6/4/21 09:44		1	0.148	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/19/21 16:30	5/19/21 16:30		1	10.2	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	5/17/21 13:51	5/17/21 13:51			419.65	uS/cm			FA
pH	5/17/21 13:51	5/17/21 13:51			6.35	SU			FA
Temperature	5/17/21 13:51	5/17/21 13:51			21.47	C			FA
Turbidity	5/17/21 13:51	5/17/21 13:51			5.02	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/17/21 13:55

Customer ID:

Delivery Date: 5/19/21 13:53

Description: Barry Ash Pond - MW-17H

Laboratory ID Number: BB09289

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB09290	Lead, Total	mg/L	0.000023	0.000147	0.10	0.108	0.106	0.106	0.0850 to 0.115	108	70.0 to 130	1.92	20.0
BB09290	Chromium, Total	mg/L	-0.0000409	0.000440	0.10	0.100	0.104	0.0993	0.0850 to 0.115	99.3	70.0 to 130	3.75	20.0
BB09290	Sodium, Total	mg/L	0.00332	0.0660	5.00	25.7	25.6	5.15	4.25 to 5.75	110	70.0 to 130	0.366	20.0
BB09290	Antimony, Total	mg/L	0.000101	0.00100	0.10	0.104	0.100	0.0969	0.0850 to 0.115	104	70.0 to 130	3.18	20.0
BB09290	Selenium, Total	mg/L	-0.0000201	0.00100	0.10	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	1.35	20.0
BB09290	Manganese, Total	mg/L	-0.0000455	0.000147	0.10	2.11	2.10	0.102	0.0850 to 0.115	121	70.0 to 130	0.170	20.0
BB09290	Potassium, Total	mg/L	-0.00760	0.367	10.0	10.6	10.8	10.3	8.50 to 11.5	96.5	70.0 to 130	2.35	20.0
BB09290	Magnesium, Total	mg/L	0.000787	0.0462	5.00	16.8	16.7	5.13	4.25 to 5.75	103	70.0 to 130	0.217	20.0
BB09292	Manganese, Dissolved	mg/L	0.0000025	0.000147	0.10	1.38	1.37	0.103	0.0850 to 0.115	166	70.0 to 130	0.534	20.0
BB09290	Boron, Total	mg/L	0.00744	0.0650	1.00	3.08	3.09	1.01	0.850 to 1.15	99.5	70.0 to 130	0.235	20.0
BB09290	Cobalt, Total	mg/L	-0.0000064	0.000147	0.10	0.101	0.104	0.0988	0.0850 to 0.115	100	70.0 to 130	3.14	20.0
BB09290	Lithium, Total	mg/L	0.000146	0.0154	0.20	0.217	0.216	0.199	0.170 to 0.230	108	70.0 to 130	0.339	20.0
BB09290	Arsenic, Total	mg/L	-0.0000014	0.000147	0.10	0.151	0.145	0.108	0.0850 to 0.115	108	70.0 to 130	4.02	20.0
BB09290	Barium, Total	mg/L	-0.0000216	0.000200	0.10	0.233	0.227	0.105	0.0850 to 0.115	108	70.0 to 130	2.46	20.0
BB09290	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0978	0.0975	0.0944	0.0850 to 0.115	97.8	70.0 to 130	0.328	20.0
BB09292	Iron, Dissolved	mg/L	-0.000111	0.0176	0.2	89.0	88.0	0.204	0.170 to 0.230	237	70.0 to 130	1.04	20.0
BB09290	Beryllium, Total	mg/L	0.0000218	0.000880	0.10	0.0988	0.0987	0.105	0.0850 to 0.115	98.8	70.0 to 130	0.0677	20.0
BB09290	Calcium, Total	mg/L	0.0516	0.152	5.00	44.8	45.3	5.17	4.25 to 5.75	86.4	70.0 to 130	1.14	20.0
BB09290	Iron, Total	mg/L	0.00139	0.0176	0.2	78.5	79.6	0.204	0.170 to 0.230	-1190	70.0 to 130	1.39	20.0
BB09290	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.0979	0.0964	0.0916	0.0850 to 0.115	97.7	70.0 to 130	1.53	20.0
BB09290	Thallium, Total	mg/L	-0.0000022	0.000147	0.10	0.103	0.107	0.102	0.0850 to 0.115	103	70.0 to 130	3.22	20.0
BB09293	Mercury, Total by CVAA	mg/L	0.0000403	0.000500	0.004	0.00409	0.00411	0.00408	0.00340 to 0.00460	102	70.0 to 130	0.629	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/17/21 13:55

Customer ID:

Delivery Date: 5/19/21 13:53

Description: Barry Ash Pond - MW-17H

Laboratory ID Number: BB09289

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB09406	Alkalinity, Total as CaCO3	mg/L					273	51.6	45.0 to 55.0			2.17	10.0
BB09292	Solids, Dissolved	mg/L	0.0000	25.0			333	51.0	40.0 to 60.0			0.604	5.00
BB09293	Fluoride	mg/L	0.0154	0.100	2.50	2.65	0.0718	2.63	2.25 to 2.75	104	80.0 to 120	15.6	20.0
BB09293	Chloride	mg/L	-0.0529	1.00	40.0	72.2	24.1	10.1	9.00 to 11.0	117	80.0 to 120	5.25	20.0
BB09293	Sulfate	mg/L	-0.282	1.00	20.0	43.9	24.9	20.0	18.0 to 22.0	94.0	80.0 to 120	0.800	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-9

Location Code: WMWBARAP
Collected: 5/18/21 09:10
Customer ID:
Submittal Date: 5/19/21 13:53

Laboratory ID Number: BB09290

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	6/1/21 09:55	6/4/21 10:19		1.015	2.08	mg/L	0.030000	0.1015	
* Calcium, Total	6/1/21 09:55	6/4/21 15:54		50.75	40.5	mg/L	3.50175	20.3	
* Iron, Total	6/1/21 09:55	6/4/21 15:54		50.75	80.8	mg/L	0.40600	2.03	RA
* Lithium, Total	6/1/21 09:55	6/4/21 10:19		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/1/21 09:55	6/4/21 10:19		1.015	11.6	mg/L	0.021315	0.406	
* Sodium, Total	6/1/21 09:55	6/4/21 10:19		1.015	20.2	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	6/1/21 06:55	6/2/21 14:31		101.5	79.4	mg/L	0.8120	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	6/1/21 09:55	6/2/21 14:54		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	6/1/21 09:55	6/2/21 14:54		1.015	0.0435	mg/L	0.000068	0.000203	
* Barium, Total	6/1/21 09:55	6/2/21 14:54		1.015	0.125	mg/L	0.000101	0.000203	
* Beryllium, Total	6/1/21 09:55	6/2/21 14:54		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/21 09:55	6/2/21 14:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/21 09:55	6/2/21 14:54		1.015	0.000780	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/1/21 09:55	6/2/21 14:54		1.015	0.000725	mg/L	0.000068	0.000203	
* Lead, Total	6/1/21 09:55	6/2/21 14:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	6/1/21 09:55	6/2/21 14:54		1.015	0.000220	mg/L	0.000068	0.000203	
* Potassium, Total	6/1/21 09:55	6/2/21 14:54		1.015	0.923	mg/L	0.169505	0.5075	
* Manganese, Total	6/1/21 09:55	6/2/21 17:59		5.075	1.99	mg/L	0.000340	0.001015	
* Selenium, Total	6/1/21 09:55	6/2/21 14:54		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	6/1/21 09:55	6/2/21 14:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	6/1/21 06:55	6/1/21 13:58		5.075	2.08	mg/L	0.000340	0.001015	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	5/27/21 12:09	5/28/21 12:47		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	5/27/21 11:13	5/27/21 12:22		1	240	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	5/20/21 16:30	5/24/21 08:30		1	314	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-9

Location Code: WMWBARAP
Collected: 5/18/21 09:10
Customer ID:
Submittal Date: 5/19/21 13:53

Laboratory ID Number: BB09290

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	5/27/21 11:13	5/27/21 12:22		1	240	mg/L			
Carbonate Alkalinity, (calc.)	5/27/21 11:13	5/27/21 12:22		1	0.05	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	6/3/21 09:26	6/3/21 09:26		1	18.3	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/4/21 09:45	6/4/21 09:45		1	0.0709	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/19/21 16:31	5/19/21 16:31		1	27.7	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	5/18/21 09:05	5/18/21 09:05			544.23	uS/cm			FA
pH	5/18/21 09:05	5/18/21 09:05			6.30	SU			FA
Temperature	5/18/21 09:05	5/18/21 09:05			21.20	C			FA
Turbidity	5/18/21 09:05	5/18/21 09:05			4.39	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 5/18/21 09:10
Customer ID:
Delivery Date: 5/19/21 13:53

Description: Barry Ash Pond - MW-9

Laboratory ID Number: BB09290

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB09290	Lead, Total	mg/L	0.0000023	0.000147	0.10	0.108	0.106	0.106	0.0850 to 0.115	108	70.0 to 130	1.92	20.0
BB09290	Manganese, Total	mg/L	-0.0000455	0.000147	0.10	2.11	2.10	0.102	0.0850 to 0.115	121	70.0 to 130	0.170	20.0
BB09290	Potassium, Total	mg/L	-0.00760	0.367	10.0	10.6	10.8	10.3	8.50 to 11.5	96.5	70.0 to 130	2.35	20.0
BB09290	Magnesium, Total	mg/L	0.000787	0.0462	5.00	16.8	16.7	5.13	4.25 to 5.75	103	70.0 to 130	0.217	20.0
BB09292	Manganese, Dissolved	mg/L	0.0000025	0.000147	0.10	1.38	1.37	0.103	0.0850 to 0.115	166	70.0 to 130	0.534	20.0
BB09290	Beryllium, Total	mg/L	0.0000218	0.000880	0.10	0.0988	0.0987	0.105	0.0850 to 0.115	98.8	70.0 to 130	0.0677	20.0
BB09290	Calcium, Total	mg/L	0.0516	0.152	5.00	44.8	45.3	5.17	4.25 to 5.75	86.4	70.0 to 130	1.14	20.0
BB09290	Iron, Total	mg/L	0.00139	0.0176	0.2	78.5	79.6	0.204	0.170 to 0.230	-1190	70.0 to 130	1.39	20.0
BB09290	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.0979	0.0964	0.0916	0.0850 to 0.115	97.7	70.0 to 130	1.53	20.0
BB09290	Thallium, Total	mg/L	-0.0000022	0.000147	0.10	0.103	0.107	0.102	0.0850 to 0.115	103	70.0 to 130	3.22	20.0
BB09293	Mercury, Total by CVAA	mg/L	0.0000403	0.000500	0.004	0.00409	0.00411	0.00408	0.00340 to 0.00460	102	70.0 to 130	0.629	20.0
BB09290	Chromium, Total	mg/L	-0.0000409	0.000440	0.10	0.100	0.104	0.0993	0.0850 to 0.115	99.3	70.0 to 130	3.75	20.0
BB09290	Sodium, Total	mg/L	0.00332	0.0660	5.00	25.7	25.6	5.15	4.25 to 5.75	110	70.0 to 130	0.366	20.0
BB09290	Antimony, Total	mg/L	0.000101	0.00100	0.10	0.104	0.100	0.0969	0.0850 to 0.115	104	70.0 to 130	3.18	20.0
BB09290	Selenium, Total	mg/L	-0.0000201	0.00100	0.10	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	1.35	20.0
BB09290	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0978	0.0975	0.0944	0.0850 to 0.115	97.8	70.0 to 130	0.328	20.0
BB09292	Iron, Dissolved	mg/L	-0.000111	0.0176	0.2	89.0	88.0	0.204	0.170 to 0.230	237	70.0 to 130	1.04	20.0
BB09290	Arsenic, Total	mg/L	-0.0000014	0.000147	0.10	0.151	0.145	0.108	0.0850 to 0.115	108	70.0 to 130	4.02	20.0
BB09290	Barium, Total	mg/L	-0.0000216	0.000200	0.10	0.233	0.227	0.105	0.0850 to 0.115	108	70.0 to 130	2.46	20.0
BB09290	Boron, Total	mg/L	0.00744	0.0650	1.00	3.08	3.09	1.01	0.850 to 1.15	99.5	70.0 to 130	0.235	20.0
BB09290	Cobalt, Total	mg/L	-0.0000064	0.000147	0.10	0.101	0.104	0.0988	0.0850 to 0.115	100	70.0 to 130	3.14	20.0
BB09290	Lithium, Total	mg/L	0.000146	0.0154	0.20	0.217	0.216	0.199	0.170 to 0.230	108	70.0 to 130	0.339	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/18/21 09:10

Customer ID:

Delivery Date: 5/19/21 13:53

Description: Barry Ash Pond - MW-9

Laboratory ID Number: BB09290

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BB09406	Alkalinity, Total as CaCO3	mg/L					273	51.6	45.0 to 55.0			2.17	10.0
BB09292	Solids, Dissolved	mg/L	0.0000	25.0			333	51.0	40.0 to 60.0			0.604	5.00
BB09293	Fluoride	mg/L	0.0154	0.100	2.50	2.65	0.0718	2.63	2.25 to 2.75	104	80.0 to 120	15.6	20.0
BB09293	Chloride	mg/L	-0.0529	1.00	40.0	72.2	24.1	10.1	9.00 to 11.0	117	80.0 to 120	5.25	20.0
BB09293	Sulfate	mg/L	-0.282	1.00	20.0	43.9	24.9	20.0	18.0 to 22.0	94.0	80.0 to 120	0.800	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-10V

Location Code: WMWBARAP
Collected: 5/18/21 10:25
Customer ID:
Submittal Date: 5/19/21 13:53

Laboratory ID Number: BB09291

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	6/1/21 09:55	6/4/21 10:42		1.015	0.971	mg/L	0.030000	0.1015	
* Calcium, Total	6/1/21 09:55	6/4/21 16:04		50.75	64.0	mg/L	3.50175	20.3	
* Iron, Total	6/1/21 09:55	6/4/21 16:04		50.75	101	mg/L	0.40600	2.03	
* Lithium, Total	6/1/21 09:55	6/4/21 10:42		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/1/21 09:55	6/4/21 10:42		1.015	12.0	mg/L	0.021315	0.406	
* Sodium, Total	6/1/21 09:55	6/4/21 10:42		1.015	24.3	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	6/1/21 06:55	6/2/21 14:41		101.5	103	mg/L	0.8120	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	6/1/21 09:55	6/2/21 15:23		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	6/1/21 09:55	6/2/21 15:23		1.015	0.000356	mg/L	0.000068	0.000203	
* Barium, Total	6/1/21 09:55	6/2/21 15:23		1.015	0.212	mg/L	0.000101	0.000203	
* Beryllium, Total	6/1/21 09:55	6/2/21 15:23		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/21 09:55	6/2/21 15:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/21 09:55	6/2/21 15:23		1.015	0.000684	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/1/21 09:55	6/2/21 15:23		1.015	0.000648	mg/L	0.000068	0.000203	
* Lead, Total	6/1/21 09:55	6/2/21 15:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	6/1/21 09:55	6/2/21 15:23		1.015	0.000148	mg/L	0.000068	0.000203	J
* Potassium, Total	6/1/21 09:55	6/2/21 15:23		1.015	2.02	mg/L	0.169505	0.5075	
* Manganese, Total	6/1/21 09:55	6/2/21 15:23		1.015	0.805	mg/L	0.000068	0.000203	
* Selenium, Total	6/1/21 09:55	6/2/21 15:23		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	6/1/21 09:55	6/2/21 15:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	6/1/21 06:55	6/1/21 10:57		1.015	0.783	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	5/27/21 12:09	5/28/21 12:49		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	5/27/21 11:13	5/27/21 12:22		1	291	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	5/20/21 16:30	5/24/21 08:30		1	401	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-10V

Location Code: WMWBARAP
Collected: 5/18/21 10:25
Customer ID:
Submittal Date: 5/19/21 13:53

Laboratory ID Number: BB09291

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	5/27/21 11:13	5/27/21 12:22		1	291	mg/L			
Carbonate Alkalinity, (calc.)	5/27/21 11:13	5/27/21 12:22		1	0.06	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	6/3/21 09:45	6/3/21 09:45		2	21.0	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/4/21 09:47	6/4/21 09:47		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/19/21 16:32	5/19/21 16:32		1	24.9	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	5/18/21 10:23	5/18/21 10:23			700.71	uS/cm			FA
pH	5/18/21 10:23	5/18/21 10:23			6.34	SU			FA
Temperature	5/18/21 10:23	5/18/21 10:23			21.18	C			FA
Turbidity	5/18/21 10:23	5/18/21 10:23			1.73	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/18/21 10:25

Customer ID:

Delivery Date: 5/19/21 13:53

Description: Barry Ash Pond - MW-10V

Laboratory ID Number: BB09291

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB09411	Lithium, Total	mg/L	0.000134	0.0154	0.20	0.227	0.226	0.200	0.170 to 0.230	113	70.0 to 130	0.488	20.0
BB09292	Manganese, Dissolved	mg/L	0.0000025	0.000147	0.10	1.38	1.37	0.103	0.0850 to 0.115	166	70.0 to 130	0.534	20.0
BB09411	Barium, Total	mg/L	-0.0000322	0.000200	0.10	0.226	0.226	0.112	0.0850 to 0.115	112	70.0 to 130	0.0539	20.0
BB09411	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0950	0.0940	0.101	0.0850 to 0.115	95.0	70.0 to 130	1.02	20.0
BB09293	Mercury, Total by CVAA	mg/L	0.0000403	0.000500	0.004	0.00409	0.00411	0.00408	0.00340 to 0.00460	102	70.0 to 130	0.629	20.0
BB09411	Beryllium, Total	mg/L	-0.0000003	0.000880	0.10	0.0925	0.0901	0.0971	0.0850 to 0.115	92.5	70.0 to 130	2.57	20.0
BB09411	Boron, Total	mg/L	0.0120	0.0650	1.00	1.13	1.12	1.01	0.850 to 1.15	103	70.0 to 130	0.148	20.0
BB09411	Cobalt, Total	mg/L	-0.0000003	0.000147	0.10	0.0996	0.100	0.100	0.0850 to 0.115	98.8	70.0 to 130	0.736	20.0
BB09411	Manganese, Total	mg/L	-0.0000182	0.000147	0.10	0.839	0.850	0.102	0.0850 to 0.115	89.3	70.0 to 130	1.32	20.0
BB09411	Lead, Total	mg/L	0.0000053	0.000147	0.10	0.108	0.107	0.102	0.0850 to 0.115	108	70.0 to 130	0.473	20.0
BB09292	Iron, Dissolved	mg/L	-0.000111	0.0176	0.2	89.0	88.0	0.204	0.170 to 0.230	237	70.0 to 130	1.04	20.0
BB09411	Potassium, Total	mg/L	-0.0123	0.367	10.0	14.0	14.0	9.57	8.50 to 11.5	92.2	70.0 to 130	0.240	20.0
BB09411	Sodium, Total	mg/L	0.00822	0.0660	5.00	79.4	79.5	5.07	4.25 to 5.75	95.7	70.0 to 130	0.181	20.0
BB09411	Antimony, Total	mg/L	0.0000982	0.00100	0.10	0.102	0.102	0.107	0.0850 to 0.115	102	70.0 to 130	0.159	20.0
BB09411	Magnesium, Total	mg/L	0.00959	0.0462	5.00	12.5	12.5	5.30	4.25 to 5.75	107	70.0 to 130	0.211	20.0
BB09411	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.0929	0.0929	0.0987	0.0850 to 0.115	92.2	70.0 to 130	0.0243	20.0
BB09411	Selenium, Total	mg/L	0.0000053	0.00100	0.10	0.0941	0.0942	0.0996	0.0850 to 0.115	94.1	70.0 to 130	0.0988	20.0
BB09411	Thallium, Total	mg/L	-0.0000034	0.000147	0.10	0.101	0.103	0.101	0.0850 to 0.115	101	70.0 to 130	1.97	20.0
BB09411	Arsenic, Total	mg/L	0.000017	0.000147	0.10	0.112	0.111	0.105	0.0850 to 0.115	103	70.0 to 130	0.936	20.0
BB09411	Calcium, Total	mg/L	0.0919	0.152	5.00	17.9	18.0	5.34	4.25 to 5.75	104	70.0 to 130	0.0786	20.0
BB09411	Chromium, Total	mg/L	-0.000051	0.000440	0.10	0.103	0.103	0.100	0.0850 to 0.115	98.9	70.0 to 130	0.345	20.0
BB09411	Iron, Total	mg/L	0.00281	0.0176	0.2	48.6	49.0	0.209	0.170 to 0.230	126	70.0 to 130	0.801	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/18/21 10:25

Customer ID:

Delivery Date: 5/19/21 13:53

Description: Barry Ash Pond - MW-10V

Laboratory ID Number: BB09291

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB09406	Alkalinity, Total as CaCO3	mg/L					273	51.6	45.0 to 55.0			2.17	10.0
BB09292	Solids, Dissolved	mg/L	0.0000	25.0			333	51.0	40.0 to 60.0			0.604	5.00
BB09293	Fluoride	mg/L	0.0154	0.100	2.50	2.65	0.0718	2.63	2.25 to 2.75	104	80.0 to 120	15.6	20.0
BB09293	Chloride	mg/L	-0.0529	1.00	40.0	72.2	24.1	10.1	9.00 to 11.0	117	80.0 to 120	5.25	20.0
BB09293	Sulfate	mg/L	-0.282	1.00	20.0	43.9	24.9	20.0	18.0 to 22.0	94.0	80.0 to 120	0.800	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-12V

Location Code: WMWBARAP
Collected: 5/18/21 12:45
Customer ID:
Submittal Date: 5/19/21 13:53

Laboratory ID Number: BB09292

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	6/1/21 09:55	6/4/21 10:46		1.015	0.118	mg/L	0.030000	0.1015	
* Calcium, Total	6/1/21 09:55	6/4/21 10:46		1.015	22.1	mg/L	0.070035	0.406	
* Iron, Total	6/1/21 09:55	6/4/21 16:08		50.75	88.0	mg/L	0.40600	2.03	
* Lithium, Total	6/1/21 09:55	6/4/21 10:46		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/1/21 09:55	6/4/21 10:46		1.015	15.8	mg/L	0.021315	0.406	
* Sodium, Total	6/1/21 09:55	6/4/21 16:08		50.75	43.3	mg/L	1.5225	20.3	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	6/1/21 06:55	6/2/21 14:44		101.5	88.5	mg/L	0.8120	4.06	RA
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	6/1/21 09:55	6/2/21 15:26		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	6/1/21 09:55	6/2/21 15:26		1.015	0.0251	mg/L	0.000068	0.000203	
* Barium, Total	6/1/21 09:55	6/2/21 15:26		1.015	0.111	mg/L	0.000101	0.000203	
* Beryllium, Total	6/1/21 09:55	6/2/21 15:26		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/21 09:55	6/2/21 15:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/21 09:55	6/2/21 15:26		1.015	0.00112	mg/L	0.000203	0.001015	
* Cobalt, Total	6/1/21 09:55	6/2/21 15:26		1.015	0.00237	mg/L	0.000068	0.000203	
* Lead, Total	6/1/21 09:55	6/2/21 15:26		1.015	0.0000816	mg/L	0.000068	0.000203	J
* Molybdenum, Total	6/1/21 09:55	6/2/21 15:26		1.015	0.00106	mg/L	0.000068	0.000203	
* Potassium, Total	6/1/21 09:55	6/2/21 15:26		1.015	2.47	mg/L	0.169505	0.5075	
* Manganese, Total	6/1/21 09:55	6/2/21 15:26		1.015	1.20	mg/L	0.000068	0.000203	
* Selenium, Total	6/1/21 09:55	6/2/21 15:26		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	6/1/21 09:55	6/2/21 15:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	6/1/21 06:55	6/1/21 11:01		1.015	1.21	mg/L	0.000068	0.000203	RA
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	5/27/21 12:09	5/28/21 12:51		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	5/27/21 11:13	5/27/21 12:22		1	251	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	5/20/21 16:30	5/24/21 08:30		1	329	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-12V

Location Code: WMWBARAP
Collected: 5/18/21 12:45
Customer ID:
Submittal Date: 5/19/21 13:53

Laboratory ID Number: BB09292

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	5/27/21 11:13	5/27/21 12:22		1	251	mg/L			
Carbonate Alkalinity, (calc.)	5/27/21 11:13	5/27/21 12:22		1	0.04	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	6/3/21 09:46	6/3/21 09:46		2	25.5	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/4/21 09:48	6/4/21 09:48		1	0.0783	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/19/21 16:33	5/19/21 16:33		1	32.8	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	5/18/21 12:40	5/18/21 12:40			591.56	uS/cm			FA
pH	5/18/21 12:40	5/18/21 12:40			5.92	SU			FA
Temperature	5/18/21 12:40	5/18/21 12:40			20.72	C			FA
Turbidity	5/18/21 12:40	5/18/21 12:40			5.21	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.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/18/21 12:45

Customer ID:

Delivery Date: 5/19/21 13:53

Description: Barry Ash Pond - MW-12V

Laboratory ID Number: BB09292

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB09411	Lithium, Total	mg/L	0.000134	0.0154	0.20	0.227	0.226	0.200	0.170 to 0.230	113	70.0 to 130	0.488	20.0
BB09411	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0950	0.0940	0.101	0.0850 to 0.115	95.0	70.0 to 130	1.02	20.0
BB09292	Manganese, Dissolved	mg/L	0.0000025	0.000147	0.10	1.38	1.37	0.103	0.0850 to 0.115	166	70.0 to 130	0.534	20.0
BB09411	Barium, Total	mg/L	-0.0000322	0.000200	0.10	0.226	0.226	0.112	0.0850 to 0.115	112	70.0 to 130	0.0539	20.0
BB09293	Mercury, Total by CVAA	mg/L	0.0000403	0.000500	0.004	0.00409	0.00411	0.00408	0.00340 to 0.00460	102	70.0 to 130	0.629	20.0
BB09411	Beryllium, Total	mg/L	-0.0000003	0.000880	0.10	0.0925	0.0901	0.0971	0.0850 to 0.115	92.5	70.0 to 130	2.57	20.0
BB09411	Boron, Total	mg/L	0.0120	0.0650	1.00	1.13	1.12	1.01	0.850 to 1.15	103	70.0 to 130	0.148	20.0
BB09411	Cobalt, Total	mg/L	-0.0000003	0.000147	0.10	0.0996	0.100	0.100	0.0850 to 0.115	98.8	70.0 to 130	0.736	20.0
BB09411	Manganese, Total	mg/L	-0.0000182	0.000147	0.10	0.839	0.850	0.102	0.0850 to 0.115	89.3	70.0 to 130	1.32	20.0
BB09411	Lead, Total	mg/L	0.0000053	0.000147	0.10	0.108	0.107	0.102	0.0850 to 0.115	108	70.0 to 130	0.473	20.0
BB09292	Iron, Dissolved	mg/L	-0.000111	0.0176	0.2	89.0	88.0	0.204	0.170 to 0.230	237	70.0 to 130	1.04	20.0
BB09411	Potassium, Total	mg/L	-0.0123	0.367	10.0	14.0	14.0	9.57	8.50 to 11.5	92.2	70.0 to 130	0.240	20.0
BB09411	Sodium, Total	mg/L	0.00822	0.0660	5.00	79.4	79.5	5.07	4.25 to 5.75	95.7	70.0 to 130	0.181	20.0
BB09411	Antimony, Total	mg/L	0.0000982	0.00100	0.10	0.102	0.102	0.107	0.0850 to 0.115	102	70.0 to 130	0.159	20.0
BB09411	Arsenic, Total	mg/L	0.000017	0.000147	0.10	0.112	0.111	0.105	0.0850 to 0.115	103	70.0 to 130	0.936	20.0
BB09411	Calcium, Total	mg/L	0.0919	0.152	5.00	17.9	18.0	5.34	4.25 to 5.75	104	70.0 to 130	0.0786	20.0
BB09411	Chromium, Total	mg/L	-0.000051	0.000440	0.10	0.103	0.103	0.100	0.0850 to 0.115	98.9	70.0 to 130	0.345	20.0
BB09411	Iron, Total	mg/L	0.00281	0.0176	0.2	48.6	49.0	0.209	0.170 to 0.230	126	70.0 to 130	0.801	20.0
BB09411	Magnesium, Total	mg/L	0.00959	0.0462	5.00	12.5	12.5	5.30	4.25 to 5.75	107	70.0 to 130	0.211	20.0
BB09411	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.0929	0.0929	0.0987	0.0850 to 0.115	92.2	70.0 to 130	0.0243	20.0
BB09411	Selenium, Total	mg/L	0.0000053	0.00100	0.10	0.0941	0.0942	0.0996	0.0850 to 0.115	94.1	70.0 to 130	0.0988	20.0
BB09411	Thallium, Total	mg/L	-0.0000034	0.000147	0.10	0.101	0.103	0.101	0.0850 to 0.115	101	70.0 to 130	1.97	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/18/21 12:45

Customer ID:

Delivery Date: 5/19/21 13:53

Description: Barry Ash Pond - MW-12V

Laboratory ID Number: BB09292

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB09406	Alkalinity, Total as CaCO3	mg/L					273	51.6	45.0 to 55.0			2.17	10.0
BB09293	Fluoride	mg/L	0.0154	0.100	2.50	2.65	0.0718	2.63	2.25 to 2.75	104	80.0 to 120	15.6	20.0
BB09292	Solids, Dissolved	mg/L	0.0000	25.0			333	51.0	40.0 to 60.0			0.604	5.00
BB09293	Chloride	mg/L	-0.0529	1.00	40.0	72.2	24.1	10.1	9.00 to 11.0	117	80.0 to 120	5.25	20.0
BB09293	Sulfate	mg/L	-0.282	1.00	20.0	43.9	24.9	20.0	18.0 to 22.0	94.0	80.0 to 120	0.800	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-12

Location Code: WMWBARAP
Collected: 5/18/21 14:03
Customer ID:
Submittal Date: 5/19/21 13:53

Laboratory ID Number: BB09293

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	6/1/21 09:55	6/4/21 10:49		1.015	0.0927	mg/L	0.030000	0.1015	J
* Calcium, Total	6/1/21 09:55	6/4/21 10:49		1.015	23.1	mg/L	0.070035	0.406	
* Iron, Total	6/1/21 09:55	6/4/21 16:11		50.75	65.9	mg/L	0.40600	2.03	
* Lithium, Total	6/1/21 09:55	6/4/21 10:49		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/1/21 09:55	6/4/21 10:49		1.015	17.3	mg/L	0.021315	0.406	
* Sodium, Total	6/1/21 09:55	6/4/21 16:11		50.75	43.0	mg/L	1.5225	20.3	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	6/1/21 06:55	6/2/21 14:55		101.5	66.0	mg/L	0.8120	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	6/1/21 09:55	6/2/21 15:30		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	6/1/21 09:55	6/2/21 15:30		1.015	0.0237	mg/L	0.000068	0.000203	
* Barium, Total	6/1/21 09:55	6/2/21 15:30		1.015	0.0902	mg/L	0.000101	0.000203	
* Beryllium, Total	6/1/21 09:55	6/2/21 15:30		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/21 09:55	6/2/21 15:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/21 09:55	6/2/21 15:30		1.015	0.00377	mg/L	0.000203	0.001015	
* Cobalt, Total	6/1/21 09:55	6/2/21 15:30		1.015	0.00336	mg/L	0.000068	0.000203	
* Lead, Total	6/1/21 09:55	6/2/21 15:30		1.015	0.000326	mg/L	0.000068	0.000203	
* Molybdenum, Total	6/1/21 09:55	6/2/21 15:30		1.015	0.000947	mg/L	0.000068	0.000203	
* Potassium, Total	6/1/21 09:55	6/2/21 15:30		1.015	2.72	mg/L	0.169505	0.5075	
* Manganese, Total	6/1/21 09:55	6/2/21 15:30		1.015	0.744	mg/L	0.000068	0.000203	
* Selenium, Total	6/1/21 09:55	6/2/21 15:30		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	6/1/21 09:55	6/2/21 15:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	6/1/21 06:55	6/1/21 11:31		1.015	0.750	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	5/27/21 12:09	5/28/21 12:54		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	5/27/21 11:13	5/27/21 12:22		1	242	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	5/24/21 10:46	5/26/21 12:50		1	332	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-12

Location Code: WMWBARAP
Collected: 5/18/21 14:03
Customer ID:
Submittal Date: 5/19/21 13:53

Laboratory ID Number: BB09293

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	5/27/21 11:13	5/27/21 12:22		1	242	mg/L			
Carbonate Alkalinity, (calc.)	5/27/21 11:13	5/27/21 12:22		1	0.04	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	6/3/21 09:48	6/3/21 09:48		4	25.4	mg/L	2.00	4	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/4/21 09:49	6/4/21 09:49		1	0.0614	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/19/21 16:34	5/19/21 16:34		1	25.1	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	5/18/21 13:58	5/18/21 13:58			555.36	uS/cm			FA
pH	5/18/21 13:58	5/18/21 13:58			5.58	SU			FA
Temperature	5/18/21 13:58	5/18/21 13:58			20.76	C			FA
Turbidity	5/18/21 13:58	5/18/21 13:58			7.25	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/18/21 14:03

Customer ID:

Delivery Date: 5/19/21 13:53

Description: Barry Ash Pond - MW-12

Laboratory ID Number: BB09293

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB09411	Lithium, Total	mg/L	0.000134	0.0154	0.20	0.227	0.226	0.200	0.170 to 0.230	113	70.0 to 130	0.488	20.0
BB09411	Barium, Total	mg/L	-0.0000322	0.000200	0.10	0.226	0.226	0.112	0.0850 to 0.115	112	70.0 to 130	0.0539	20.0
BB09697	Manganese, Dissolved	mg/L	0.0000447	0.000147	0.10	1.13	1.14	0.107	0.0850 to 0.115	88.8	70.0 to 130	1.16	20.0
BB09293	Mercury, Total by CVAA	mg/L	0.0000403	0.000500	0.004	0.00409	0.00411	0.00408	0.00340 to 0.00460	102	70.0 to 130	0.629	20.0
BB09411	Beryllium, Total	mg/L	-0.0000003	0.000880	0.10	0.0925	0.0901	0.0971	0.0850 to 0.115	92.5	70.0 to 130	2.57	20.0
BB09411	Boron, Total	mg/L	0.0120	0.0650	1.00	1.13	1.12	1.01	0.850 to 1.15	103	70.0 to 130	0.148	20.0
BB09411	Cobalt, Total	mg/L	-0.0000003	0.000147	0.10	0.0996	0.100	0.100	0.0850 to 0.115	98.8	70.0 to 130	0.736	20.0
BB09411	Manganese, Total	mg/L	-0.0000182	0.000147	0.10	0.839	0.850	0.102	0.0850 to 0.115	89.3	70.0 to 130	1.32	20.0
BB09411	Lead, Total	mg/L	0.0000053	0.000147	0.10	0.108	0.107	0.102	0.0850 to 0.115	108	70.0 to 130	0.473	20.0
BB09411	Potassium, Total	mg/L	-0.0123	0.367	10.0	14.0	14.0	9.57	8.50 to 11.5	92.2	70.0 to 130	0.240	20.0
BB09411	Sodium, Total	mg/L	0.00822	0.0660	5.00	79.4	79.5	5.07	4.25 to 5.75	95.7	70.0 to 130	0.181	20.0
BB09411	Antimony, Total	mg/L	0.0000982	0.00100	0.10	0.102	0.102	0.107	0.0850 to 0.115	102	70.0 to 130	0.159	20.0
BB09697	Iron, Dissolved	mg/L	0.000128	0.0176	0.2	66.8	66.0	0.206	0.170 to 0.230	210	70.0 to 130	1.19	20.0
BB09411	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0950	0.0940	0.101	0.0850 to 0.115	95.0	70.0 to 130	1.02	20.0
BB09411	Magnesium, Total	mg/L	0.00959	0.0462	5.00	12.5	12.5	5.30	4.25 to 5.75	107	70.0 to 130	0.211	20.0
BB09411	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.0929	0.0929	0.0987	0.0850 to 0.115	92.2	70.0 to 130	0.0243	20.0
BB09411	Selenium, Total	mg/L	0.0000053	0.00100	0.10	0.0941	0.0942	0.0996	0.0850 to 0.115	94.1	70.0 to 130	0.0988	20.0
BB09411	Thallium, Total	mg/L	-0.0000034	0.000147	0.10	0.101	0.103	0.101	0.0850 to 0.115	101	70.0 to 130	1.97	20.0
BB09411	Arsenic, Total	mg/L	0.000017	0.000147	0.10	0.112	0.111	0.105	0.0850 to 0.115	103	70.0 to 130	0.936	20.0
BB09411	Calcium, Total	mg/L	0.0919	0.152	5.00	17.9	18.0	5.34	4.25 to 5.75	104	70.0 to 130	0.0786	20.0
BB09411	Chromium, Total	mg/L	-0.000051	0.000440	0.10	0.103	0.103	0.100	0.0850 to 0.115	98.9	70.0 to 130	0.345	20.0
BB09411	Iron, Total	mg/L	0.00281	0.0176	0.2	48.6	49.0	0.209	0.170 to 0.230	126	70.0 to 130	0.801	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/18/21 14:03

Customer ID:

Delivery Date: 5/19/21 13:53

Description: Barry Ash Pond - MW-12

Laboratory ID Number: BB09293

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB09279	Solids, Dissolved	mg/L	-2.00	25.0			177	53.0	40.0 to 60.0			2.61	5.00
BB09293	Fluoride	mg/L	0.0154	0.100	2.50	2.65	0.0718	2.63	2.25 to 2.75	104	80.0 to 120	15.6	20.0
BB09406	Alkalinity, Total as CaCO3	mg/L					273	51.6	45.0 to 55.0			2.17	10.0
BB09293	Chloride	mg/L	-0.0529	1.00	40.0	72.2	24.1	10.1	9.00 to 11.0	117	80.0 to 120	5.25	20.0
BB09293	Sulfate	mg/L	-0.282	1.00	20.0	43.9	24.9	20.0	18.0 to 22.0	94.0	80.0 to 120	0.800	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-18H

Location Code: WMWBARAP
Collected: 5/19/21 09:04
Customer ID:
Submittal Date: 5/20/21 13:08

Laboratory ID Number: BB09405

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	6/1/21 09:55	6/4/21 10:52		1.015	0.866	mg/L	0.030000	0.1015	
* Calcium, Total	6/1/21 09:55	6/4/21 10:52		1.015	27.1	mg/L	0.070035	0.406	
* Iron, Total	6/1/21 09:55	6/4/21 16:14		50.75	84.2	mg/L	0.40600	2.03	
* Lithium, Total	6/1/21 09:55	6/4/21 10:52		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/1/21 09:55	6/4/21 10:52		1.015	11.0	mg/L	0.021315	0.406	
* Sodium, Total	6/1/21 09:55	6/4/21 10:52		1.015	17.6	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	6/1/21 06:55	6/2/21 14:58		101.5	84.3	mg/L	0.8120	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	6/1/21 09:55	6/2/21 15:33		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	6/1/21 09:55	6/2/21 15:33		1.015	0.0147	mg/L	0.000068	0.000203	
* Barium, Total	6/1/21 09:55	6/2/21 15:33		1.015	0.147	mg/L	0.000101	0.000203	
* Beryllium, Total	6/1/21 09:55	6/2/21 15:33		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/21 09:55	6/2/21 15:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/21 09:55	6/2/21 15:33		1.015	0.00132	mg/L	0.000203	0.001015	
* Cobalt, Total	6/1/21 09:55	6/2/21 15:33		1.015	0.00109	mg/L	0.000068	0.000203	
* Lead, Total	6/1/21 09:55	6/2/21 15:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	6/1/21 09:55	6/2/21 15:33		1.015	0.00025	mg/L	0.000068	0.000203	
* Potassium, Total	6/1/21 09:55	6/2/21 15:33		1.015	1.20	mg/L	0.169505	0.5075	
* Manganese, Total	6/1/21 09:55	6/2/21 15:33		1.015	1.24	mg/L	0.000068	0.000203	
* Selenium, Total	6/1/21 09:55	6/2/21 15:33		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	6/1/21 09:55	6/2/21 15:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	6/1/21 06:55	6/1/21 14:09		5.075	1.37	mg/L	0.000340	0.001015	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	6/4/21 09:30	6/7/21 13:23		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	5/27/21 11:13	5/27/21 12:22		1	194	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	5/24/21 10:46	5/26/21 12:50		1	293	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-18H

Location Code: WMWBARAP
Collected: 5/19/21 09:04
Customer ID:
Submittal Date: 5/20/21 13:08

Laboratory ID Number: BB09405

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	5/27/21 11:13	5/27/21 12:22		1	194	mg/L			
Carbonate Alkalinity, (calc.)	5/27/21 11:13	5/27/21 12:22		1	0.03	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	6/3/21 10:24	6/3/21 10:24		1	19.3	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/4/21 10:01	6/4/21 10:01		1	0.0886	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/8/21 13:51	6/8/21 13:51		1	7.48	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	5/19/21 09:01	5/19/21 09:01			467.23	uS/cm			FA
pH	5/19/21 09:01	5/19/21 09:01			6.23	SU			FA
Temperature	5/19/21 09:01	5/19/21 09:01			20.15	C			FA
Turbidity	5/19/21 09:01	5/19/21 09:01			2.88	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/19/21 09:04

Customer ID:

Delivery Date: 5/20/21 13:08

Description: Barry Ash Pond - MW-18H

Laboratory ID Number: BB09405

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB09411	Barium, Total	mg/L	-0.0000322	0.000200	0.10	0.226	0.226	0.112	0.0850 to 0.115	112	70.0 to 130	0.0539	20.0
BB09697	Manganese, Dissolved	mg/L	0.0000447	0.000147	0.10	1.13	1.14	0.107	0.0850 to 0.115	88.8	70.0 to 130	1.16	20.0
BB09411	Cadmium, Total	mg/L	0.000000	0.000147	0.10	0.0950	0.0940	0.101	0.0850 to 0.115	95.0	70.0 to 130	1.02	20.0
BB09411	Lithium, Total	mg/L	0.000134	0.0154	0.20	0.227	0.226	0.200	0.170 to 0.230	113	70.0 to 130	0.488	20.0
BB09697	Mercury, Total by CVAA	mg/L	0.0000933	0.000500	0.004	0.00392	0.00389	0.00392	0.00340 to 0.00460	98.1	70.0 to 130	0.883	20.0
BB09411	Beryllium, Total	mg/L	-0.0000003	0.000880	0.10	0.0925	0.0901	0.0971	0.0850 to 0.115	92.5	70.0 to 130	2.57	20.0
BB09411	Boron, Total	mg/L	0.0120	0.0650	1.00	1.13	1.12	1.01	0.850 to 1.15	103	70.0 to 130	0.148	20.0
BB09411	Cobalt, Total	mg/L	-0.0000003	0.000147	0.10	0.0996	0.100	0.100	0.0850 to 0.115	98.8	70.0 to 130	0.736	20.0
BB09411	Manganese, Total	mg/L	-0.0000182	0.000147	0.10	0.839	0.850	0.102	0.0850 to 0.115	89.3	70.0 to 130	1.32	20.0
BB09411	Lead, Total	mg/L	0.0000053	0.000147	0.10	0.108	0.107	0.102	0.0850 to 0.115	108	70.0 to 130	0.473	20.0
BB09411	Potassium, Total	mg/L	-0.0123	0.367	10.0	14.0	14.0	9.57	8.50 to 11.5	92.2	70.0 to 130	0.240	20.0
BB09411	Sodium, Total	mg/L	0.00822	0.0660	5.00	79.4	79.5	5.07	4.25 to 5.75	95.7	70.0 to 130	0.181	20.0
BB09411	Antimony, Total	mg/L	0.0000982	0.00100	0.10	0.102	0.102	0.107	0.0850 to 0.115	102	70.0 to 130	0.159	20.0
BB09697	Iron, Dissolved	mg/L	0.000128	0.0176	0.2	66.8	66.0	0.206	0.170 to 0.230	210	70.0 to 130	1.19	20.0
BB09411	Magnesium, Total	mg/L	0.00959	0.0462	5.00	12.5	12.5	5.30	4.25 to 5.75	107	70.0 to 130	0.211	20.0
BB09411	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.0929	0.0929	0.0987	0.0850 to 0.115	92.2	70.0 to 130	0.0243	20.0
BB09411	Selenium, Total	mg/L	0.0000053	0.00100	0.10	0.0941	0.0942	0.0996	0.0850 to 0.115	94.1	70.0 to 130	0.0988	20.0
BB09411	Thallium, Total	mg/L	-0.0000034	0.000147	0.10	0.101	0.103	0.101	0.0850 to 0.115	101	70.0 to 130	1.97	20.0
BB09411	Arsenic, Total	mg/L	0.000017	0.000147	0.10	0.112	0.111	0.105	0.0850 to 0.115	103	70.0 to 130	0.936	20.0
BB09411	Calcium, Total	mg/L	0.0919	0.152	5.00	17.9	18.0	5.34	4.25 to 5.75	104	70.0 to 130	0.0786	20.0
BB09411	Chromium, Total	mg/L	-0.000051	0.000440	0.10	0.103	0.103	0.100	0.0850 to 0.115	98.9	70.0 to 130	0.345	20.0
BB09411	Iron, Total	mg/L	0.00281	0.0176	0.2	48.6	49.0	0.209	0.170 to 0.230	126	70.0 to 130	0.801	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/19/21 09:04

Customer ID:

Delivery Date: 5/20/21 13:08

Description: Barry Ash Pond - MW-18H

Laboratory ID Number: BB09405

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB09413	Fluoride	mg/L	0.016	0.100	2.50	2.58	0.0283	2.64	2.25 to 2.75	103	80.0 to 120	0.00	20.0
BB09406	Alkalinity, Total as CaCO3	mg/L					273	51.6	45.0 to 55.0			2.17	10.0
BB09413	Sulfate	mg/L	-0.234	1.00	20.0	19.5	-0.569	20.1	18.0 to 22.0	97.5	80.0 to 120	0.00	20.0
BB09412	Solids, Dissolved	mg/L	-2.00	25.0			298	53.0	40.0 to 60.0			0.334	5.00
BB09413	Chloride	mg/L	-0.0766	1.00	10.0	9.95	0.0629	10.1	9.00 to 11.0	99.5	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-11

Location Code: WMWBARAP
Collected: 5/19/21 10:51
Customer ID:
Submittal Date: 5/20/21 13:08

Laboratory ID Number: BB09406

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	6/1/21 09:55	6/4/21 10:56		1.015	0.0856	mg/L	0.030000	0.1015	J
* Calcium, Total	6/1/21 09:55	6/4/21 16:18		50.75	41.5	mg/L	3.50175	20.3	
* Iron, Total	6/1/21 09:55	6/4/21 16:18		50.75	67.5	mg/L	0.40600	2.03	
* Lithium, Total	6/1/21 09:55	6/4/21 10:56		1.015	0.00754	mg/L	0.007105	0.01999956	J
* Magnesium, Total	6/1/21 09:55	6/4/21 10:56		1.015	14.2	mg/L	0.021315	0.406	
* Sodium, Total	6/1/21 09:55	6/4/21 16:18		50.75	55.2	mg/L	1.5225	20.3	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	6/1/21 06:55	6/2/21 15:01		101.5	67.6	mg/L	0.8120	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	6/1/21 09:55	6/2/21 15:37		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	6/1/21 09:55	6/2/21 15:37		1.015	0.0166	mg/L	0.000068	0.000203	
* Barium, Total	6/1/21 09:55	6/2/21 15:37		1.015	0.112	mg/L	0.000101	0.000203	
* Beryllium, Total	6/1/21 09:55	6/2/21 15:37		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/21 09:55	6/2/21 15:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/21 09:55	6/2/21 15:37		1.015	0.00301	mg/L	0.000203	0.001015	
* Cobalt, Total	6/1/21 09:55	6/2/21 15:37		1.015	0.00257	mg/L	0.000068	0.000203	
* Lead, Total	6/1/21 09:55	6/2/21 15:37		1.015	0.000102	mg/L	0.000068	0.000203	J
* Molybdenum, Total	6/1/21 09:55	6/2/21 15:37		1.015	0.00652	mg/L	0.000068	0.000203	
* Potassium, Total	6/1/21 09:55	6/2/21 15:37		1.015	4.13	mg/L	0.169505	0.5075	
* Manganese, Total	6/1/21 09:55	6/2/21 15:37		1.015	0.556	mg/L	0.000068	0.000203	
* Selenium, Total	6/1/21 09:55	6/2/21 15:37		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	6/1/21 09:55	6/2/21 15:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	6/1/21 06:55	6/1/21 11:38		1.015	0.553	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	6/4/21 09:30	6/7/21 13:25		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	5/27/21 11:13	5/27/21 12:22		1	279	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	5/24/21 10:46	5/26/21 12:50		1	422	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-11

Location Code: WMWBARAP
Collected: 5/19/21 10:51
Customer ID:
Submittal Date: 5/20/21 13:08

Laboratory ID Number: BB09406

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	5/27/21 11:13	5/27/21 12:22		1	279	mg/L			
Carbonate Alkalinity, (calc.)	5/27/21 11:13	5/27/21 12:22		1	0.07	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	6/3/21 10:25	6/3/21 10:25		2	23.1	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/4/21 10:02	6/4/21 10:02		1	0.0994	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/8/21 13:52	6/8/21 13:52		1	16.5	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	5/19/21 10:48	5/19/21 10:48			614.81	uS/cm			FA
pH	5/19/21 10:48	5/19/21 10:48			6.33	SU			FA
Temperature	5/19/21 10:48	5/19/21 10:48			20.89	C			FA
Turbidity	5/19/21 10:48	5/19/21 10:48			8.69	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/19/21 10:51

Customer ID:

Delivery Date: 5/20/21 13:08

Description: Barry Ash Pond - MW-11

Laboratory ID Number: BB09406

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB09697	Manganese, Dissolved	mg/L	0.0000447	0.000147	0.10	1.13	1.14	0.107	0.0850 to 0.115	88.8	70.0 to 130	1.16	20.0
BB09411	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0950	0.0940	0.101	0.0850 to 0.115	95.0	70.0 to 130	1.02	20.0
BB09411	Magnesium, Total	mg/L	0.00959	0.0462	5.00	12.5	12.5	5.30	4.25 to 5.75	107	70.0 to 130	0.211	20.0
BB09411	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.0929	0.0929	0.0987	0.0850 to 0.115	92.2	70.0 to 130	0.0243	20.0
BB09411	Selenium, Total	mg/L	0.0000053	0.00100	0.10	0.0941	0.0942	0.0996	0.0850 to 0.115	94.1	70.0 to 130	0.0988	20.0
BB09411	Thallium, Total	mg/L	-0.0000034	0.000147	0.10	0.101	0.103	0.101	0.0850 to 0.115	101	70.0 to 130	1.97	20.0
BB09411	Lithium, Total	mg/L	0.000134	0.0154	0.20	0.227	0.226	0.200	0.170 to 0.230	113	70.0 to 130	0.488	20.0
BB09697	Mercury, Total by CVAA	mg/L	0.0000933	0.000500	0.004	0.00392	0.00389	0.00392	0.00340 to 0.00460	98.1	70.0 to 130	0.883	20.0
BB09411	Barium, Total	mg/L	-0.0000322	0.000200	0.10	0.226	0.226	0.112	0.0850 to 0.115	112	70.0 to 130	0.0539	20.0
BB09411	Beryllium, Total	mg/L	-0.0000003	0.000880	0.10	0.0925	0.0901	0.0971	0.0850 to 0.115	92.5	70.0 to 130	2.57	20.0
BB09411	Boron, Total	mg/L	0.0120	0.0650	1.00	1.13	1.12	1.01	0.850 to 1.15	103	70.0 to 130	0.148	20.0
BB09411	Cobalt, Total	mg/L	-0.0000003	0.000147	0.10	0.0996	0.100	0.100	0.0850 to 0.115	98.8	70.0 to 130	0.736	20.0
BB09411	Manganese, Total	mg/L	-0.0000182	0.000147	0.10	0.839	0.850	0.102	0.0850 to 0.115	89.3	70.0 to 130	1.32	20.0
BB09411	Lead, Total	mg/L	0.0000053	0.000147	0.10	0.108	0.107	0.102	0.0850 to 0.115	108	70.0 to 130	0.473	20.0
BB09411	Arsenic, Total	mg/L	0.000017	0.000147	0.10	0.112	0.111	0.105	0.0850 to 0.115	103	70.0 to 130	0.936	20.0
BB09411	Calcium, Total	mg/L	0.0919	0.152	5.00	17.9	18.0	5.34	4.25 to 5.75	104	70.0 to 130	0.0786	20.0
BB09411	Chromium, Total	mg/L	-0.0000051	0.000440	0.10	0.103	0.103	0.100	0.0850 to 0.115	98.9	70.0 to 130	0.345	20.0
BB09411	Iron, Total	mg/L	0.00281	0.0176	0.2	48.6	49.0	0.209	0.170 to 0.230	126	70.0 to 130	0.801	20.0
BB09411	Potassium, Total	mg/L	-0.0123	0.367	10.0	14.0	14.0	9.57	8.50 to 11.5	92.2	70.0 to 130	0.240	20.0
BB09411	Sodium, Total	mg/L	0.00822	0.0660	5.00	79.4	79.5	5.07	4.25 to 5.75	95.7	70.0 to 130	0.181	20.0
BB09411	Antimony, Total	mg/L	0.0000982	0.00100	0.10	0.102	0.102	0.107	0.0850 to 0.115	102	70.0 to 130	0.159	20.0
BB09697	Iron, Dissolved	mg/L	0.000128	0.0176	0.2	66.8	66.0	0.206	0.170 to 0.230	210	70.0 to 130	1.19	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/19/21 10:51

Customer ID:

Delivery Date: 5/20/21 13:08

Description: Barry Ash Pond - MW-11

Laboratory ID Number: BB09406

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB09413	Fluoride	mg/L	0.016	0.100	2.50	2.58	0.0283	2.64	2.25 to 2.75	103	80.0 to 120	0.00	20.0
BB09406	Alkalinity, Total as CaCO3	mg/L					273	51.6	45.0 to 55.0			2.17	10.0
BB09413	Sulfate	mg/L	-0.234	1.00	20.0	19.5	-0.569	20.1	18.0 to 22.0	97.5	80.0 to 120	0.00	20.0
BB09412	Solids, Dissolved	mg/L	-2.00	25.0			298	53.0	40.0 to 60.0			0.334	5.00
BB09413	Chloride	mg/L	-0.0766	1.00	10.0	9.95	0.0629	10.1	9.00 to 11.0	99.5	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-16

Location Code: WMWBARAP
Collected: 5/19/21 12:01
Customer ID:
Submittal Date: 5/20/21 13:08

Laboratory ID Number: BB09407

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	6/1/21 09:55	6/4/21 10:59		1.015	1.74	mg/L	0.030000	0.1015	
* Calcium, Total	6/1/21 09:55	6/4/21 10:59		1.015	14.2	mg/L	0.070035	0.406	
* Iron, Total	6/1/21 09:55	6/4/21 16:21		50.75	76.5	mg/L	0.40600	2.03	
* Lithium, Total	6/1/21 09:55	6/4/21 10:59		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/1/21 09:55	6/4/21 10:59		1.015	7.34	mg/L	0.021315	0.406	
* Sodium, Total	6/1/21 09:55	6/4/21 10:59		1.015	26.2	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA						
* Iron, Dissolved	6/1/21 06:55	6/2/21 15:05		101.5	77.0	mg/L	0.8120	4.06	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	6/1/21 09:55	6/2/21 15:40		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	6/1/21 09:55	6/2/21 15:40		1.015	0.0118	mg/L	0.000068	0.000203	
* Barium, Total	6/1/21 09:55	6/2/21 15:40		1.015	0.102	mg/L	0.000101	0.000203	
* Beryllium, Total	6/1/21 09:55	6/2/21 15:40		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/21 09:55	6/2/21 15:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/21 09:55	6/2/21 15:40		1.015	0.00162	mg/L	0.000203	0.001015	
* Cobalt, Total	6/1/21 09:55	6/2/21 15:40		1.015	0.0182	mg/L	0.000068	0.000203	
* Lead, Total	6/1/21 09:55	6/2/21 15:40		1.015	0.000191	mg/L	0.000068	0.000203	J
* Molybdenum, Total	6/1/21 09:55	6/2/21 15:40		1.015	0.000136	mg/L	0.000068	0.000203	J
* Potassium, Total	6/1/21 09:55	6/2/21 15:40		1.015	1.84	mg/L	0.169505	0.5075	
* Manganese, Total	6/1/21 09:55	6/2/21 15:40		1.015	0.910	mg/L	0.000068	0.000203	
* Selenium, Total	6/1/21 09:55	6/2/21 15:40		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	6/1/21 09:55	6/2/21 15:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8			Analyst: DLJ						
* Manganese, Dissolved	6/1/21 06:55	6/1/21 11:42		1.015	0.946	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	6/4/21 09:30	6/7/21 13:27		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B			Analyst: JAG						
Alkalinity, Total as CaCO3	6/1/21 09:41	6/1/21 10:34		1	224	mg/L		0.1	
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	5/24/21 10:46	5/26/21 12:50		1	274	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-16

Location Code: WMWBARAP
Collected: 5/19/21 12:01
Customer ID:
Submittal Date: 5/20/21 13:08

Laboratory ID Number: BB09407

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	6/1/21 09:41	6/1/21 10:34		1	224	mg/L			
Carbonate Alkalinity, (calc.)	6/1/21 09:41	6/1/21 10:34		1	0.02	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	6/3/21 10:26	6/3/21 10:26		2	21.4	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/4/21 10:03	6/4/21 10:03		1	0.0793	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/8/21 13:53	6/8/21 13:53		1	3.11	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	5/19/21 11:58	5/19/21 11:58			421.75	uS/cm			FA
pH	5/19/21 11:58	5/19/21 11:58			5.80	SU			FA
Temperature	5/19/21 11:58	5/19/21 11:58			22.16	C			FA
Turbidity	5/19/21 11:58	5/19/21 11:58			7.93	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/19/21 12:01

Customer ID:

Delivery Date: 5/20/21 13:08

Description: Barry Ash Pond - MW-16

Laboratory ID Number: BB09407

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB09411	Barium, Total	mg/L	-0.000322	0.000200	0.10	0.226	0.226	0.112	0.0850 to 0.115	112	70.0 to 130	0.0539	20.0
BB09697	Manganese, Dissolved	mg/L	0.0000447	0.000147	0.10	1.13	1.14	0.107	0.0850 to 0.115	88.8	70.0 to 130	1.16	20.0
BB09411	Lithium, Total	mg/L	0.000134	0.0154	0.20	0.227	0.226	0.200	0.170 to 0.230	113	70.0 to 130	0.488	20.0
BB09697	Mercury, Total by CVAA	mg/L	0.0000933	0.000500	0.004	0.00392	0.00389	0.00392	0.00340 to 0.00460	98.1	70.0 to 130	0.883	20.0
BB09411	Beryllium, Total	mg/L	-0.0000003	0.000880	0.10	0.0925	0.0901	0.0971	0.0850 to 0.115	92.5	70.0 to 130	2.57	20.0
BB09411	Boron, Total	mg/L	0.0120	0.0650	1.00	1.13	1.12	1.01	0.850 to 1.15	103	70.0 to 130	0.148	20.0
BB09411	Cobalt, Total	mg/L	-0.0000003	0.000147	0.10	0.0996	0.100	0.100	0.0850 to 0.115	98.8	70.0 to 130	0.736	20.0
BB09411	Manganese, Total	mg/L	-0.0000182	0.000147	0.10	0.839	0.850	0.102	0.0850 to 0.115	89.3	70.0 to 130	1.32	20.0
BB09411	Lead, Total	mg/L	0.0000053	0.000147	0.10	0.108	0.107	0.102	0.0850 to 0.115	108	70.0 to 130	0.473	20.0
BB09411	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0950	0.0940	0.101	0.0850 to 0.115	95.0	70.0 to 130	1.02	20.0
BB09411	Magnesium, Total	mg/L	0.00959	0.0462	5.00	12.5	12.5	5.30	4.25 to 5.75	107	70.0 to 130	0.211	20.0
BB09411	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.0929	0.0929	0.0987	0.0850 to 0.115	92.2	70.0 to 130	0.0243	20.0
BB09411	Selenium, Total	mg/L	0.0000053	0.00100	0.10	0.0941	0.0942	0.0996	0.0850 to 0.115	94.1	70.0 to 130	0.0988	20.0
BB09411	Thallium, Total	mg/L	-0.0000034	0.000147	0.10	0.101	0.103	0.101	0.0850 to 0.115	101	70.0 to 130	1.97	20.0
BB09411	Potassium, Total	mg/L	-0.0123	0.367	10.0	14.0	14.0	9.57	8.50 to 11.5	92.2	70.0 to 130	0.240	20.0
BB09411	Sodium, Total	mg/L	0.00822	0.0660	5.00	79.4	79.5	5.07	4.25 to 5.75	95.7	70.0 to 130	0.181	20.0
BB09411	Antimony, Total	mg/L	0.0000982	0.00100	0.10	0.102	0.102	0.107	0.0850 to 0.115	102	70.0 to 130	0.159	20.0
BB09697	Iron, Dissolved	mg/L	0.000128	0.0176	0.2	66.8	66.0	0.206	0.170 to 0.230	210	70.0 to 130	1.19	20.0
BB09411	Arsenic, Total	mg/L	0.000017	0.000147	0.10	0.112	0.111	0.105	0.0850 to 0.115	103	70.0 to 130	0.936	20.0
BB09411	Calcium, Total	mg/L	0.0919	0.152	5.00	17.9	18.0	5.34	4.25 to 5.75	104	70.0 to 130	0.0786	20.0
BB09411	Chromium, Total	mg/L	-0.000051	0.000440	0.10	0.103	0.103	0.100	0.0850 to 0.115	98.9	70.0 to 130	0.345	20.0
BB09411	Iron, Total	mg/L	0.00281	0.0176	0.2	48.6	49.0	0.209	0.170 to 0.230	126	70.0 to 130	0.801	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/19/21 12:01

Customer ID:

Delivery Date: 5/20/21 13:08

Description: Barry Ash Pond - MW-16

Laboratory ID Number: BB09407

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB09413	Sulfate	mg/L	-0.234	1.00	20.0	19.5	-0.569	20.1	18.0 to 22.0	97.5	80.0 to 120	0.00	20.0
BB09708	Alkalinity, Total as CaCO3	mg/L					296	52.8	45.0 to 55.0			1.01	10.0
BB09413	Fluoride	mg/L	0.016	0.100	2.50	2.58	0.0283	2.64	2.25 to 2.75	103	80.0 to 120	0.00	20.0
BB09412	Solids, Dissolved	mg/L	-2.00	25.0			298	53.0	40.0 to 60.0			0.334	5.00
BB09413	Chloride	mg/L	-0.0766	1.00	10.0	9.95	0.0629	10.1	9.00 to 11.0	99.5	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-16V

Location Code: WMWBARAP
Collected: 5/19/21 13:32
Customer ID:
Submittal Date: 5/20/21 13:08

Laboratory ID Number: BB09408

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	6/1/21 09:55	6/4/21 11:02		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	6/1/21 09:55	6/4/21 11:02		1.015	2.26	mg/L	0.070035	0.406	
* Iron, Total	6/1/21 09:55	6/4/21 16:31		10.15	4.35	mg/L	0.08120	0.406	
* Lithium, Total	6/1/21 09:55	6/4/21 11:02		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/1/21 09:55	6/4/21 11:02		1.015	2.04	mg/L	0.021315	0.406	
* Sodium, Total	6/1/21 09:55	6/4/21 16:31		10.15	61.2	mg/L	0.3045	4.06	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	6/1/21 06:55	6/2/21 15:08		10.15	4.37	mg/L	0.08120	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	6/1/21 09:55	6/2/21 15:44		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	6/1/21 09:55	6/2/21 15:44		1.015	0.00123	mg/L	0.000068	0.000203	
* Barium, Total	6/1/21 09:55	6/2/21 15:44		1.015	0.0743	mg/L	0.000101	0.000203	
* Beryllium, Total	6/1/21 09:55	6/2/21 15:44		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/21 09:55	6/2/21 15:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/21 09:55	6/2/21 15:44		1.015	0.000385	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/1/21 09:55	6/2/21 15:44		1.015	0.0153	mg/L	0.000068	0.000203	
* Lead, Total	6/1/21 09:55	6/2/21 15:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	6/1/21 09:55	6/2/21 15:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	6/1/21 09:55	6/2/21 15:44		1.015	2.11	mg/L	0.169505	0.5075	
* Manganese, Total	6/1/21 09:55	6/2/21 15:44		1.015	0.170	mg/L	0.000068	0.000203	
* Selenium, Total	6/1/21 09:55	6/2/21 15:44		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	6/1/21 09:55	6/2/21 15:44		1.015	0.0000913	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	6/1/21 06:55	6/1/21 11:45		1.015	0.173	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	6/4/21 09:30	6/7/21 13:30		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	6/1/21 09:41	6/1/21 10:34		1	22.1	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	5/24/21 10:46	5/26/21 12:50		1	213	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-16V

Location Code: WMWBARAP
Collected: 5/19/21 13:32
Customer ID:
Submittal Date: 5/20/21 13:08

Laboratory ID Number: BB09408

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	6/1/21 09:41	6/1/21 10:34		1	22.1	mg/L			
Carbonate Alkalinity, (calc.)	6/1/21 09:41	6/1/21 10:34		1	0.00	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	6/3/21 10:27	6/3/21 10:27		8	81.2	mg/L	4.00	8	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/4/21 10:05	6/4/21 10:05		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/8/21 14:01	6/8/21 14:01		2	40.9	mg/L	1.00	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	5/19/21 13:29	5/19/21 13:29			346.65	uS/cm			FA
pH	5/19/21 13:29	5/19/21 13:29			5.24	SU			FA
Temperature	5/19/21 13:29	5/19/21 13:29			21.80	C			FA
Turbidity	5/19/21 13:29	5/19/21 13:29			1.74	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/19/21 13:32

Customer ID:

Delivery Date: 5/20/21 13:08

Description: Barry Ash Pond - MW-16V

Laboratory ID Number: BB09408

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB09411	Barium, Total	mg/L	-0.000322	0.000200	0.10	0.226	0.226	0.112	0.0850 to 0.115	112	70.0 to 130	0.0539	20.0
BB09411	Lithium, Total	mg/L	0.000134	0.0154	0.20	0.227	0.226	0.200	0.170 to 0.230	113	70.0 to 130	0.488	20.0
BB09697	Mercury, Total by CVAA	mg/L	0.0000933	0.000500	0.004	0.00392	0.00389	0.00392	0.00340 to 0.00460	98.1	70.0 to 130	0.883	20.0
BB09697	Manganese, Dissolved	mg/L	0.0000447	0.000147	0.10	1.13	1.14	0.107	0.0850 to 0.115	88.8	70.0 to 130	1.16	20.0
BB09411	Beryllium, Total	mg/L	-0.0000003	0.000880	0.10	0.0925	0.0901	0.0971	0.0850 to 0.115	92.5	70.0 to 130	2.57	20.0
BB09411	Boron, Total	mg/L	0.0120	0.0650	1.00	1.13	1.12	1.01	0.850 to 1.15	103	70.0 to 130	0.148	20.0
BB09411	Cobalt, Total	mg/L	-0.0000003	0.000147	0.10	0.0996	0.100	0.100	0.0850 to 0.115	98.8	70.0 to 130	0.736	20.0
BB09411	Manganese, Total	mg/L	-0.0000182	0.000147	0.10	0.839	0.850	0.102	0.0850 to 0.115	89.3	70.0 to 130	1.32	20.0
BB09411	Lead, Total	mg/L	0.0000053	0.000147	0.10	0.108	0.107	0.102	0.0850 to 0.115	108	70.0 to 130	0.473	20.0
BB09411	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0950	0.0940	0.101	0.0850 to 0.115	95.0	70.0 to 130	1.02	20.0
BB09411	Magnesium, Total	mg/L	0.00959	0.0462	5.00	12.5	12.5	5.30	4.25 to 5.75	107	70.0 to 130	0.211	20.0
BB09411	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.0929	0.0929	0.0987	0.0850 to 0.115	92.2	70.0 to 130	0.0243	20.0
BB09411	Selenium, Total	mg/L	0.0000053	0.00100	0.10	0.0941	0.0942	0.0996	0.0850 to 0.115	94.1	70.0 to 130	0.0988	20.0
BB09411	Thallium, Total	mg/L	-0.0000034	0.000147	0.10	0.101	0.103	0.101	0.0850 to 0.115	101	70.0 to 130	1.97	20.0
BB09411	Arsenic, Total	mg/L	0.000017	0.000147	0.10	0.112	0.111	0.105	0.0850 to 0.115	103	70.0 to 130	0.936	20.0
BB09411	Calcium, Total	mg/L	0.0919	0.152	5.00	17.9	18.0	5.34	4.25 to 5.75	104	70.0 to 130	0.0786	20.0
BB09411	Chromium, Total	mg/L	-0.000051	0.000440	0.10	0.103	0.103	0.100	0.0850 to 0.115	98.9	70.0 to 130	0.345	20.0
BB09411	Iron, Total	mg/L	0.00281	0.0176	0.2	48.6	49.0	0.209	0.170 to 0.230	126	70.0 to 130	0.801	20.0
BB09411	Potassium, Total	mg/L	-0.0123	0.367	10.0	14.0	14.0	9.57	8.50 to 11.5	92.2	70.0 to 130	0.240	20.0
BB09411	Sodium, Total	mg/L	0.00822	0.0660	5.00	79.4	79.5	5.07	4.25 to 5.75	95.7	70.0 to 130	0.181	20.0
BB09411	Antimony, Total	mg/L	0.0000982	0.00100	0.10	0.102	0.102	0.107	0.0850 to 0.115	102	70.0 to 130	0.159	20.0
BB09697	Iron, Dissolved	mg/L	0.000128	0.0176	0.2	66.8	66.0	0.206	0.170 to 0.230	210	70.0 to 130	1.19	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/19/21 13:32

Customer ID:

Delivery Date: 5/20/21 13:08

Description: Barry Ash Pond - MW-16V

Laboratory ID Number: BB09408

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BB09708	Alkalinity, Total as CaCO3	mg/L					296	52.8	45.0 to 55.0			1.01	10.0
BB09413	Sulfate	mg/L	-0.234	1.00	20.0	19.5	-0.569	20.1	18.0 to 22.0	97.5	80.0 to 120	0.00	20.0
BB09413	Fluoride	mg/L	0.016	0.100	2.50	2.58	0.0283	2.64	2.25 to 2.75	103	80.0 to 120	0.00	20.0
BB09412	Solids, Dissolved	mg/L	-2.00	25.0			298	53.0	40.0 to 60.0			0.334	5.00
BB09413	Chloride	mg/L	-0.0766	1.00	10.0	9.95	0.0629	10.1	9.00 to 11.0	99.5	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-20H

Location Code: WMWBARAP
Collected: 5/19/21 10:00
Customer ID:
Submittal Date: 5/20/21 13:08

Laboratory ID Number: BB09409

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	6/1/21 09:55	6/4/21 11:06		1.015	0.0909	mg/L	0.030000	0.1015	J
* Calcium, Total	6/1/21 09:55	6/4/21 11:06		1.015	30.9	mg/L	0.070035	0.406	
* Iron, Total	6/1/21 09:55	6/4/21 16:35		50.75	56.3	mg/L	0.40600	2.03	
* Lithium, Total	6/1/21 09:55	6/4/21 11:06		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/1/21 09:55	6/4/21 11:06		1.015	18.8	mg/L	0.021315	0.406	
* Sodium, Total	6/1/21 09:55	6/4/21 16:35		50.75	97.4	mg/L	1.5225	20.3	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	6/1/21 06:55	6/2/21 15:12		101.5	52.7	mg/L	0.8120	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	6/1/21 09:55	6/2/21 15:48		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	6/1/21 09:55	6/2/21 15:48		1.015	0.0132	mg/L	0.000068	0.000203	
* Barium, Total	6/1/21 09:55	6/2/21 15:48		1.015	0.111	mg/L	0.000101	0.000203	
* Beryllium, Total	6/1/21 09:55	6/2/21 15:48		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/21 09:55	6/2/21 15:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/21 09:55	6/2/21 15:48		1.015	0.00284	mg/L	0.000203	0.001015	
* Cobalt, Total	6/1/21 09:55	6/2/21 15:48		1.015	0.00426	mg/L	0.000068	0.000203	
* Lead, Total	6/1/21 09:55	6/2/21 15:48		1.015	0.000224	mg/L	0.000068	0.000203	
* Molybdenum, Total	6/1/21 09:55	6/2/21 15:48		1.015	0.000503	mg/L	0.000068	0.000203	
* Potassium, Total	6/1/21 09:55	6/2/21 15:48		1.015	3.20	mg/L	0.169505	0.5075	
* Manganese, Total	6/1/21 09:55	6/2/21 15:48		1.015	0.485	mg/L	0.000068	0.000203	
* Selenium, Total	6/1/21 09:55	6/2/21 15:48		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	6/1/21 09:55	6/2/21 15:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	6/1/21 06:55	6/1/21 11:49		1.015	0.504	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	6/4/21 09:30	6/7/21 13:32		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	6/1/21 09:41	6/1/21 10:34		1	386	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	5/24/21 10:46	5/26/21 12:50		1	479	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-20H

Location Code: WMWBARAP
Collected: 5/19/21 10:00
Customer ID:
Submittal Date: 5/20/21 13:08

Laboratory ID Number: BB09409

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	6/1/21 09:41	6/1/21 10:34		1	386	mg/L			
Carbonate Alkalinity, (calc.)	6/1/21 09:41	6/1/21 10:34		1	0.07	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	6/3/21 10:29	6/3/21 10:29		3	36.2	mg/L	1.50	3	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/4/21 10:06	6/4/21 10:06		1	0.0852	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/8/21 14:05	6/8/21 14:05		3	59.5	mg/L	1.50	3	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	5/19/21 09:59	5/19/21 09:59			738.57	uS/cm			FA
pH	5/19/21 09:59	5/19/21 09:59			6.17	SU			FA
Temperature	5/19/21 09:59	5/19/21 09:59			19.90	C			FA
Turbidity	5/19/21 09:59	5/19/21 09:59			9.77	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/19/21 10:00

Customer ID:

Delivery Date: 5/20/21 13:08

Description: Barry Ash Pond - MW-20H

Laboratory ID Number: BB09409

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB09411	Barium, Total	mg/L	-0.000322	0.000200	0.10	0.226	0.226	0.112	0.0850 to 0.115	112	70.0 to 130	0.0539	20.0
BB09697	Manganese, Dissolved	mg/L	0.0000447	0.000147	0.10	1.13	1.14	0.107	0.0850 to 0.115	88.8	70.0 to 130	1.16	20.0
BB09411	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0950	0.0940	0.101	0.0850 to 0.115	95.0	70.0 to 130	1.02	20.0
BB09411	Magnesium, Total	mg/L	0.00959	0.0462	5.00	12.5	12.5	5.30	4.25 to 5.75	107	70.0 to 130	0.211	20.0
BB09411	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.0929	0.0929	0.0987	0.0850 to 0.115	92.2	70.0 to 130	0.0243	20.0
BB09411	Selenium, Total	mg/L	0.0000053	0.00100	0.10	0.0941	0.0942	0.0996	0.0850 to 0.115	94.1	70.0 to 130	0.0988	20.0
BB09411	Thallium, Total	mg/L	-0.0000034	0.000147	0.10	0.101	0.103	0.101	0.0850 to 0.115	101	70.0 to 130	1.97	20.0
BB09411	Lithium, Total	mg/L	0.000134	0.0154	0.20	0.227	0.226	0.200	0.170 to 0.230	113	70.0 to 130	0.488	20.0
BB09697	Mercury, Total by CVAA	mg/L	0.0000933	0.000500	0.004	0.00392	0.00389	0.00392	0.00340 to 0.00460	98.1	70.0 to 130	0.883	20.0
BB09411	Arsenic, Total	mg/L	0.000017	0.000147	0.10	0.112	0.111	0.105	0.0850 to 0.115	103	70.0 to 130	0.936	20.0
BB09411	Calcium, Total	mg/L	0.0919	0.152	5.00	17.9	18.0	5.34	4.25 to 5.75	104	70.0 to 130	0.0786	20.0
BB09411	Chromium, Total	mg/L	-0.000051	0.000440	0.10	0.103	0.103	0.100	0.0850 to 0.115	98.9	70.0 to 130	0.345	20.0
BB09411	Iron, Total	mg/L	0.00281	0.0176	0.2	48.6	49.0	0.209	0.170 to 0.230	126	70.0 to 130	0.801	20.0
BB09411	Beryllium, Total	mg/L	-0.0000003	0.000880	0.10	0.0925	0.0901	0.0971	0.0850 to 0.115	92.5	70.0 to 130	2.57	20.0
BB09411	Boron, Total	mg/L	0.0120	0.0650	1.00	1.13	1.12	1.01	0.850 to 1.15	103	70.0 to 130	0.148	20.0
BB09411	Cobalt, Total	mg/L	-0.0000003	0.000147	0.10	0.0996	0.100	0.100	0.0850 to 0.115	98.8	70.0 to 130	0.736	20.0
BB09411	Manganese, Total	mg/L	-0.0000182	0.000147	0.10	0.839	0.850	0.102	0.0850 to 0.115	89.3	70.0 to 130	1.32	20.0
BB09411	Lead, Total	mg/L	0.0000053	0.000147	0.10	0.108	0.107	0.102	0.0850 to 0.115	108	70.0 to 130	0.473	20.0
BB09411	Potassium, Total	mg/L	-0.0123	0.367	10.0	14.0	14.0	9.57	8.50 to 11.5	92.2	70.0 to 130	0.240	20.0
BB09411	Sodium, Total	mg/L	0.00822	0.0660	5.00	79.4	79.5	5.07	4.25 to 5.75	95.7	70.0 to 130	0.181	20.0
BB09411	Antimony, Total	mg/L	0.0000982	0.00100	0.10	0.102	0.102	0.107	0.0850 to 0.115	102	70.0 to 130	0.159	20.0
BB09697	Iron, Dissolved	mg/L	0.000128	0.0176	0.2	66.8	66.0	0.206	0.170 to 0.230	210	70.0 to 130	1.19	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/19/21 10:00

Customer ID:

Delivery Date: 5/20/21 13:08

Description: Barry Ash Pond - MW-20H

Laboratory ID Number: BB09409

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BB09708	Alkalinity, Total as CaCO3	mg/L					296	52.8	45.0 to 55.0			1.01	10.0
BB09413	Sulfate	mg/L	-0.234	1.00	20.0	19.5	-0.569	20.1	18.0 to 22.0	97.5	80.0 to 120	0.00	20.0
BB09413	Fluoride	mg/L	0.016	0.100	2.50	2.58	0.0283	2.64	2.25 to 2.75	103	80.0 to 120	0.00	20.0
BB09412	Solids, Dissolved	mg/L	-2.00	25.0			298	53.0	40.0 to 60.0			0.334	5.00
BB09413	Chloride	mg/L	-0.0766	1.00	10.0	9.95	0.0629	10.1	9.00 to 11.0	99.5	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-20V

Location Code: WMWBARAP
Collected: 5/19/21 10:58
Customer ID:
Submittal Date: 5/20/21 13:08

Laboratory ID Number: BB09410

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	6/1/21 09:55	6/4/21 11:09		1.015	0.119	mg/L	0.030000	0.1015	
* Calcium, Total	6/1/21 09:55	6/4/21 11:09		1.015	15.3	mg/L	0.070035	0.406	
* Iron, Total	6/1/21 09:55	6/4/21 16:38		50.75	73.6	mg/L	0.40600	2.03	
* Lithium, Total	6/1/21 09:55	6/4/21 11:09		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/1/21 09:55	6/4/21 11:09		1.015	9.65	mg/L	0.021315	0.406	
* Sodium, Total	6/1/21 09:55	6/4/21 16:38		50.75	49.3	mg/L	1.5225	20.3	
Analytical Method: EPA 200.7			Analyst: RDA						
* Iron, Dissolved	6/1/21 06:55	6/2/21 15:15		101.5	73.6	mg/L	0.8120	4.06	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	6/1/21 09:55	6/2/21 15:51		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	6/1/21 09:55	6/2/21 15:51		1.015	0.0148	mg/L	0.000068	0.000203	
* Barium, Total	6/1/21 09:55	6/2/21 15:51		1.015	0.107	mg/L	0.000101	0.000203	
* Beryllium, Total	6/1/21 09:55	6/2/21 15:51		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/21 09:55	6/2/21 15:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/21 09:55	6/2/21 15:51		1.015	0.000669	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/1/21 09:55	6/2/21 15:51		1.015	0.0173	mg/L	0.000068	0.000203	
* Lead, Total	6/1/21 09:55	6/2/21 15:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	6/1/21 09:55	6/2/21 15:51		1.015	0.00155	mg/L	0.000068	0.000203	
* Potassium, Total	6/1/21 09:55	6/2/21 15:51		1.015	2.21	mg/L	0.169505	0.5075	
* Manganese, Total	6/1/21 09:55	6/2/21 18:17		5.075	1.58	mg/L	0.000340	0.001015	
* Selenium, Total	6/1/21 09:55	6/2/21 15:51		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	6/1/21 09:55	6/2/21 15:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8			Analyst: DLJ						
* Manganese, Dissolved	6/1/21 06:55	6/1/21 14:13		5.075	1.72	mg/L	0.000340	0.001015	
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	6/4/21 09:30	6/7/21 13:34		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B			Analyst: JAG						
Alkalinity, Total as CaCO3	6/1/21 09:41	6/1/21 10:34		1	204	mg/L		0.1	
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	5/24/21 10:46	5/26/21 12:50		1	271	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-20V

Location Code: WMWBARAP
Collected: 5/19/21 10:58
Customer ID:
Submittal Date: 5/20/21 13:08

Laboratory ID Number: BB09410

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	6/1/21 09:41	6/1/21 10:34		1	204	mg/L			
Carbonate Alkalinity, (calc.)	6/1/21 09:41	6/1/21 10:34		1	0.05	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	6/3/21 10:30	6/3/21 10:30		2	32.4	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/4/21 10:07	6/4/21 10:07		1	0.123	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/8/21 13:57	6/8/21 13:57		1	1.93	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	5/19/21 10:54	5/19/21 10:54			512.90	uS/cm			FA
pH	5/19/21 10:54	5/19/21 10:54			6.44	SU			FA
Temperature	5/19/21 10:54	5/19/21 10:54			20.45	C			FA
Turbidity	5/19/21 10:54	5/19/21 10:54			1.21	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/19/21 10:58

Customer ID:

Delivery Date: 5/20/21 13:08

Description: Barry Ash Pond - MW-20V

Laboratory ID Number: BB09410

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB09411	Barium, Total	mg/L	-0.000322	0.000200	0.10	0.226	0.226	0.112	0.0850 to 0.115	112	70.0 to 130	0.0539	20.0
BB09697	Manganese, Dissolved	mg/L	0.0000447	0.000147	0.10	1.13	1.14	0.107	0.0850 to 0.115	88.8	70.0 to 130	1.16	20.0
BB09411	Lithium, Total	mg/L	0.000134	0.0154	0.20	0.227	0.226	0.200	0.170 to 0.230	113	70.0 to 130	0.488	20.0
BB09697	Mercury, Total by CVAA	mg/L	0.0000933	0.000500	0.004	0.00392	0.00389	0.00392	0.00340 to 0.00460	98.1	70.0 to 130	0.883	20.0
BB09411	Beryllium, Total	mg/L	-0.0000003	0.000880	0.10	0.0925	0.0901	0.0971	0.0850 to 0.115	92.5	70.0 to 130	2.57	20.0
BB09411	Boron, Total	mg/L	0.0120	0.0650	1.00	1.13	1.12	1.01	0.850 to 1.15	103	70.0 to 130	0.148	20.0
BB09411	Cobalt, Total	mg/L	-0.0000003	0.000147	0.10	0.0996	0.100	0.100	0.0850 to 0.115	98.8	70.0 to 130	0.736	20.0
BB09411	Manganese, Total	mg/L	-0.0000182	0.000147	0.10	0.839	0.850	0.102	0.0850 to 0.115	89.3	70.0 to 130	1.32	20.0
BB09411	Lead, Total	mg/L	0.0000053	0.000147	0.10	0.108	0.107	0.102	0.0850 to 0.115	108	70.0 to 130	0.473	20.0
BB09411	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0950	0.0940	0.101	0.0850 to 0.115	95.0	70.0 to 130	1.02	20.0
BB09411	Potassium, Total	mg/L	-0.0123	0.367	10.0	14.0	14.0	9.57	8.50 to 11.5	92.2	70.0 to 130	0.240	20.0
BB09411	Sodium, Total	mg/L	0.00822	0.0660	5.00	79.4	79.5	5.07	4.25 to 5.75	95.7	70.0 to 130	0.181	20.0
BB09411	Antimony, Total	mg/L	0.0000982	0.00100	0.10	0.102	0.102	0.107	0.0850 to 0.115	102	70.0 to 130	0.159	20.0
BB09697	Iron, Dissolved	mg/L	0.000128	0.0176	0.2	66.8	66.0	0.206	0.170 to 0.230	210	70.0 to 130	1.19	20.0
BB09411	Arsenic, Total	mg/L	0.000017	0.000147	0.10	0.112	0.111	0.105	0.0850 to 0.115	103	70.0 to 130	0.936	20.0
BB09411	Calcium, Total	mg/L	0.0919	0.152	5.00	17.9	18.0	5.34	4.25 to 5.75	104	70.0 to 130	0.0786	20.0
BB09411	Chromium, Total	mg/L	-0.000051	0.000440	0.10	0.103	0.103	0.100	0.0850 to 0.115	98.9	70.0 to 130	0.345	20.0
BB09411	Iron, Total	mg/L	0.00281	0.0176	0.2	48.6	49.0	0.209	0.170 to 0.230	126	70.0 to 130	0.801	20.0
BB09411	Magnesium, Total	mg/L	0.00959	0.0462	5.00	12.5	12.5	5.30	4.25 to 5.75	107	70.0 to 130	0.211	20.0
BB09411	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.0929	0.0929	0.0987	0.0850 to 0.115	92.2	70.0 to 130	0.0243	20.0
BB09411	Selenium, Total	mg/L	0.0000053	0.00100	0.10	0.0941	0.0942	0.0996	0.0850 to 0.115	94.1	70.0 to 130	0.0988	20.0
BB09411	Thallium, Total	mg/L	-0.0000034	0.000147	0.10	0.101	0.103	0.101	0.0850 to 0.115	101	70.0 to 130	1.97	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/19/21 10:58

Customer ID:

Delivery Date: 5/20/21 13:08

Description: Barry Ash Pond - MW-20V

Laboratory ID Number: BB09410

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BB09708	Alkalinity, Total as CaCO3	mg/L					296	52.8	45.0 to 55.0			1.01	10.0
BB09413	Sulfate	mg/L	-0.234	1.00	20.0	19.5	-0.569	20.1	18.0 to 22.0	97.5	80.0 to 120	0.00	20.0
BB09413	Fluoride	mg/L	0.016	0.100	2.50	2.58	0.0283	2.64	2.25 to 2.75	103	80.0 to 120	0.00	20.0
BB09412	Solids, Dissolved	mg/L	-2.00	25.0			298	53.0	40.0 to 60.0			0.334	5.00
BB09413	Chloride	mg/L	-0.0766	1.00	10.0	9.95	0.0629	10.1	9.00 to 11.0	99.5	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-13V

Location Code: WMWBARAP
Collected: 5/19/21 12:05
Customer ID:
Submittal Date: 5/20/21 13:08

Laboratory ID Number: BB09411

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	6/1/21 09:55	6/4/21 11:13		1.015	0.0976	mg/L	0.030000	0.1015	J
* Calcium, Total	6/1/21 09:55	6/4/21 11:13		1.015	12.7	mg/L	0.070035	0.406	
* Iron, Total	6/1/21 09:55	6/4/21 16:41		50.75	48.4	mg/L	0.40600	2.03	RA
* Lithium, Total	6/1/21 09:55	6/4/21 11:13		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/1/21 09:55	6/4/21 11:13		1.015	7.14	mg/L	0.021315	0.406	
* Sodium, Total	6/1/21 09:55	6/4/21 16:41		50.75	74.6	mg/L	1.5225	20.3	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	6/1/21 06:55	6/2/21 15:18		101.5	48.8	mg/L	0.8120	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	6/1/21 09:55	6/2/21 15:55		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	6/1/21 09:55	6/2/21 15:55		1.015	0.00877	mg/L	0.000068	0.000203	
* Barium, Total	6/1/21 09:55	6/2/21 15:55		1.015	0.114	mg/L	0.000101	0.000203	
* Beryllium, Total	6/1/21 09:55	6/2/21 15:55		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/21 09:55	6/2/21 15:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/21 09:55	6/2/21 15:55		1.015	0.00416	mg/L	0.000203	0.001015	
* Cobalt, Total	6/1/21 09:55	6/2/21 15:55		1.015	0.000827	mg/L	0.000068	0.000203	
* Lead, Total	6/1/21 09:55	6/2/21 15:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	6/1/21 09:55	6/2/21 15:55		1.015	0.000642	mg/L	0.000068	0.000203	
* Potassium, Total	6/1/21 09:55	6/2/21 15:55		1.015	4.77	mg/L	0.169505	0.5075	
* Manganese, Total	6/1/21 09:55	6/2/21 15:55		1.015	0.750	mg/L	0.000068	0.000203	
* Selenium, Total	6/1/21 09:55	6/2/21 15:55		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	6/1/21 09:55	6/2/21 15:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	6/1/21 06:55	6/1/21 11:56		1.015	0.771	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	6/4/21 09:30	6/7/21 13:37		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	6/1/21 09:41	6/1/21 10:34		1	164	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	5/24/21 10:46	5/26/21 12:50		1	362	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-13V

Location Code: WMWBARAP
Collected: 5/19/21 12:05
Customer ID:
Submittal Date: 5/20/21 13:08

Laboratory ID Number: BB09411

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	6/1/21 09:41	6/1/21 10:34		1	164	mg/L			
Carbonate Alkalinity, (calc.)	6/1/21 09:41	6/1/21 10:34		1	0.03	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	6/3/21 10:31	6/3/21 10:31		8	64.4	mg/L	4.00	8	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/4/21 10:08	6/4/21 10:08		1	0.0884	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/8/21 13:58	6/8/21 13:58		1	39.7	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	5/19/21 12:03	5/19/21 12:03			541.08	uS/cm			FA
pH	5/19/21 12:03	5/19/21 12:03			6.20	SU			FA
Temperature	5/19/21 12:03	5/19/21 12:03			20.67	C			FA
Turbidity	5/19/21 12:03	5/19/21 12:03			0.92	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/19/21 12:05

Customer ID:

Delivery Date: 5/20/21 13:08

Description: Barry Ash Pond - MW-13V

Laboratory ID Number: BB09411

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB09697	Manganese, Dissolved	mg/L	0.0000447	0.000147	0.10	1.13	1.14	0.107	0.0850 to 0.115	88.8	70.0 to 130	1.16	20.0
BB09411	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0950	0.0940	0.101	0.0850 to 0.115	95.0	70.0 to 130	1.02	20.0
BB09411	Magnesium, Total	mg/L	0.00959	0.0462	5.00	12.5	12.5	5.30	4.25 to 5.75	107	70.0 to 130	0.211	20.0
BB09411	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.0929	0.0929	0.0987	0.0850 to 0.115	92.2	70.0 to 130	0.0243	20.0
BB09411	Selenium, Total	mg/L	0.0000053	0.00100	0.10	0.0941	0.0942	0.0996	0.0850 to 0.115	94.1	70.0 to 130	0.0988	20.0
BB09411	Thallium, Total	mg/L	-0.0000034	0.000147	0.10	0.101	0.103	0.101	0.0850 to 0.115	101	70.0 to 130	1.97	20.0
BB09411	Beryllium, Total	mg/L	-0.0000003	0.000880	0.10	0.0925	0.0901	0.0971	0.0850 to 0.115	92.5	70.0 to 130	2.57	20.0
BB09411	Boron, Total	mg/L	0.0120	0.0650	1.00	1.13	1.12	1.01	0.850 to 1.15	103	70.0 to 130	0.148	20.0
BB09411	Cobalt, Total	mg/L	-0.0000003	0.000147	0.10	0.0996	0.100	0.100	0.0850 to 0.115	98.8	70.0 to 130	0.736	20.0
BB09411	Manganese, Total	mg/L	-0.0000182	0.000147	0.10	0.839	0.850	0.102	0.0850 to 0.115	89.3	70.0 to 130	1.32	20.0
BB09411	Lead, Total	mg/L	0.0000053	0.000147	0.10	0.108	0.107	0.102	0.0850 to 0.115	108	70.0 to 130	0.473	20.0
BB09411	Potassium, Total	mg/L	-0.0123	0.367	10.0	14.0	14.0	9.57	8.50 to 11.5	92.2	70.0 to 130	0.240	20.0
BB09411	Sodium, Total	mg/L	0.00822	0.0660	5.00	79.4	79.5	5.07	4.25 to 5.75	95.7	70.0 to 130	0.181	20.0
BB09411	Antimony, Total	mg/L	0.0000982	0.00100	0.10	0.102	0.102	0.107	0.0850 to 0.115	102	70.0 to 130	0.159	20.0
BB09697	Iron, Dissolved	mg/L	0.000128	0.0176	0.2	66.8	66.0	0.206	0.170 to 0.230	210	70.0 to 130	1.19	20.0
BB09411	Lithium, Total	mg/L	0.000134	0.0154	0.20	0.227	0.226	0.200	0.170 to 0.230	113	70.0 to 130	0.488	20.0
BB09697	Mercury, Total by CVAA	mg/L	0.0000933	0.000500	0.004	0.00392	0.00389	0.00392	0.00340 to 0.00460	98.1	70.0 to 130	0.883	20.0
BB09411	Barium, Total	mg/L	-0.0000322	0.000200	0.10	0.226	0.226	0.112	0.0850 to 0.115	112	70.0 to 130	0.0539	20.0
BB09411	Arsenic, Total	mg/L	0.000017	0.000147	0.10	0.112	0.111	0.105	0.0850 to 0.115	103	70.0 to 130	0.936	20.0
BB09411	Calcium, Total	mg/L	0.0919	0.152	5.00	17.9	18.0	5.34	4.25 to 5.75	104	70.0 to 130	0.0786	20.0
BB09411	Chromium, Total	mg/L	-0.000051	0.000440	0.10	0.103	0.103	0.100	0.0850 to 0.115	98.9	70.0 to 130	0.345	20.0
BB09411	Iron, Total	mg/L	0.00281	0.0176	0.2	48.6	49.0	0.209	0.170 to 0.230	126	70.0 to 130	0.801	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/19/21 12:05

Customer ID:

Delivery Date: 5/20/21 13:08

Description: Barry Ash Pond - MW-13V

Laboratory ID Number: BB09411

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BB09708	Alkalinity, Total as CaCO3	mg/L					296	52.8	45.0 to 55.0			1.01	10.0
BB09413	Sulfate	mg/L	-0.234	1.00	20.0	19.5	-0.569	20.1	18.0 to 22.0	97.5	80.0 to 120	0.00	20.0
BB09412	Solids, Dissolved	mg/L	-2.00	25.0			298	53.0	40.0 to 60.0			0.334	5.00
BB09413	Chloride	mg/L	-0.0766	1.00	10.0	9.95	0.0629	10.1	9.00 to 11.0	99.5	80.0 to 120	0.00	20.0
BB09413	Fluoride	mg/L	0.016	0.100	2.50	2.58	0.0283	2.64	2.25 to 2.75	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.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-13

Location Code: WMWBARAP
Collected: 5/19/21 13:00
Customer ID:
Submittal Date: 5/20/21 13:08

Laboratory ID Number: BB09412

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	6/1/21 09:55	6/4/21 11:30		1.015	0.0604	mg/L	0.030000	0.1015	J
* Calcium, Total	6/1/21 09:55	6/4/21 11:30		1.015	12.9	mg/L	0.070035	0.406	
* Iron, Total	6/1/21 09:55	6/4/21 16:52		50.75	31.6	mg/L	0.40600	2.03	
* Lithium, Total	6/1/21 09:55	6/4/21 11:30		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/1/21 09:55	6/4/21 11:30		1.015	7.20	mg/L	0.021315	0.406	
* Sodium, Total	6/1/21 09:55	6/4/21 16:52		50.75	56.7	mg/L	1.5225	20.3	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	6/1/21 06:55	6/2/21 15:29		101.5	31.6	mg/L	0.8120	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	6/1/21 09:55	6/2/21 16:16		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	6/1/21 09:55	6/2/21 16:16		1.015	0.0140	mg/L	0.000068	0.000203	
* Barium, Total	6/1/21 09:55	6/2/21 16:16		1.015	0.0817	mg/L	0.000101	0.000203	
* Beryllium, Total	6/1/21 09:55	6/2/21 16:16		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/21 09:55	6/2/21 16:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/21 09:55	6/2/21 16:16		1.015	0.00692	mg/L	0.000203	0.001015	
* Cobalt, Total	6/1/21 09:55	6/2/21 16:16		1.015	0.00113	mg/L	0.000068	0.000203	
* Lead, Total	6/1/21 09:55	6/2/21 16:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	6/1/21 09:55	6/2/21 16:16		1.015	0.000437	mg/L	0.000068	0.000203	
* Potassium, Total	6/1/21 09:55	6/2/21 16:16		1.015	1.79	mg/L	0.169505	0.5075	
* Manganese, Total	6/1/21 09:55	6/2/21 16:16		1.015	0.442	mg/L	0.000068	0.000203	
* Selenium, Total	6/1/21 09:55	6/2/21 16:16		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	6/1/21 09:55	6/2/21 16:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	6/1/21 06:55	6/1/21 12:00		1.015	0.454	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	6/4/21 09:30	6/7/21 13:39		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	6/1/21 09:41	6/1/21 10:34		1	149	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	5/24/21 10:46	5/26/21 12:50		1	300	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-13

Location Code: WMWBARAP
Collected: 5/19/21 13:00
Customer ID:
Submittal Date: 5/20/21 13:08

Laboratory ID Number: BB09412

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	6/1/21 09:41	6/1/21 10:34		1	149	mg/L			
Carbonate Alkalinity, (calc.)	6/1/21 09:41	6/1/21 10:34		1	0.02	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	6/3/21 10:32	6/3/21 10:32		5	46.8	mg/L	2.50	5	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/4/21 10:09	6/4/21 10:09		1	0.0748	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/8/21 14:06	6/8/21 14:06		2	50.4	mg/L	1.00	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	5/19/21 12:58	5/19/21 12:58			413.29	uS/cm			FA
pH	5/19/21 12:58	5/19/21 12:58			5.79	SU			FA
Temperature	5/19/21 12:58	5/19/21 12:58			20.76	C			FA
Turbidity	5/19/21 12:58	5/19/21 12:58			1.43	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.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/19/21 13:00

Customer ID:

Delivery Date: 5/20/21 13:08

Description: Barry Ash Pond - MW-13

Laboratory ID Number: BB09412

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB09704	Barium, Total	mg/L	-0.000322	0.000200	0.10	0.136	0.141	0.112	0.0850 to 0.115	115	70.0 to 130	3.52	20.0
BB09704	Boron, Total	mg/L	0.0120	0.0650	1.00	1.02	1.02	1.01	0.850 to 1.15	102	70.0 to 130	0.139	20.0
BB09704	Potassium, Total	mg/L	-0.0123	0.367	10.0	10.1	10.3	9.57	8.50 to 11.5	93.0	70.0 to 130	1.49	20.0
BB09704	Lithium, Total	mg/L	0.000134	0.0154	0.20	0.205	0.205	0.200	0.170 to 0.230	103	70.0 to 130	0.0492	20.0
BB09704	Antimony, Total	mg/L	0.0000982	0.00100	0.10	0.106	0.109	0.107	0.0850 to 0.115	106	70.0 to 130	2.70	20.0
BB09697	Mercury, Total by CVAA	mg/L	0.0000933	0.000500	0.004	0.00392	0.00389	0.00392	0.00340 to 0.00460	98.1	70.0 to 130	0.883	20.0
BB09704	Chromium, Total	mg/L	-0.000051	0.000440	0.10	0.101	0.101	0.100	0.0850 to 0.115	99.5	70.0 to 130	0.497	20.0
BB09704	Sodium, Total	mg/L	0.00822	0.0660	5.00	10.6	10.6	5.07	4.25 to 5.75	106	70.0 to 130	0.0554	20.0
BB09704	Thallium, Total	mg/L	-0.0000034	0.000147	0.10	0.107	0.108	0.101	0.0850 to 0.115	107	70.0 to 130	1.01	20.0
BB09697	Manganese, Dissolved	mg/L	0.0000447	0.000147	0.10	1.13	1.14	0.107	0.0850 to 0.115	88.8	70.0 to 130	1.16	20.0
BB09704	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.127	20.0
BB09704	Magnesium, Total	mg/L	0.00959	0.0462	5.00	5.98	5.99	5.30	4.25 to 5.75	106	70.0 to 130	0.151	20.0
BB09697	Iron, Dissolved	mg/L	0.000128	0.0176	0.2	66.8	66.0	0.206	0.170 to 0.230	210	70.0 to 130	1.19	20.0
BB09704	Arsenic, Total	mg/L	0.000017	0.000147	0.10	0.102	0.104	0.105	0.0850 to 0.115	102	70.0 to 130	1.41	20.0
BB09704	Iron, Total	mg/L	0.00281	0.0176	0.2	0.244	0.242	0.209	0.170 to 0.230	105	70.0 to 130	0.767	20.0
BB09704	Manganese, Total	mg/L	-0.0000182	0.000147	0.10	0.103	0.105	0.102	0.0850 to 0.115	99.5	70.0 to 130	1.99	20.0
BB09704	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.0957	0.0973	0.0987	0.0850 to 0.115	95.6	70.0 to 130	1.62	20.0
BB09704	Selenium, Total	mg/L	0.0000053	0.00100	0.10	0.0965	0.0960	0.0996	0.0850 to 0.115	96.5	70.0 to 130	0.513	20.0
BB09704	Beryllium, Total	mg/L	-0.0000003	0.000880	0.10	0.0940	0.0895	0.0971	0.0850 to 0.115	94.0	70.0 to 130	4.89	20.0
BB09704	Calcium, Total	mg/L	0.0919	0.152	5.00	6.25	6.22	5.34	4.25 to 5.75	107	70.0 to 130	0.479	20.0
BB09704	Cobalt, Total	mg/L	-0.0000003	0.000147	0.10	0.101	0.102	0.100	0.0850 to 0.115	99.7	70.0 to 130	0.787	20.0
BB09704	Lead, Total	mg/L	0.0000053	0.000147	0.10	0.107	0.114	0.102	0.0850 to 0.115	107	70.0 to 130	6.56	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/19/21 13:00

Customer ID:

Delivery Date: 5/20/21 13:08

Description: Barry Ash Pond - MW-13

Laboratory ID Number: BB09412

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BB09708	Alkalinity, Total as CaCO3	mg/L					296	52.8	45.0 to 55.0			1.01	10.0
BB09413	Sulfate	mg/L	-0.234	1.00	20.0	19.5	-0.569	20.1	18.0 to 22.0	97.5	80.0 to 120	0.00	20.0
BB09413	Fluoride	mg/L	0.016	0.100	2.50	2.58	0.0283	2.64	2.25 to 2.75	103	80.0 to 120	0.00	20.0
BB09412	Solids, Dissolved	mg/L	-2.00	25.0			298	53.0	40.0 to 60.0			0.334	5.00
BB09413	Chloride	mg/L	-0.0766	1.00	10.0	9.95	0.0629	10.1	9.00 to 11.0	99.5	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond Field Blank-3

Location Code: WMWBARAPFB
Collected: 5/19/21 13:30
Customer ID:
Submittal Date: 5/20/21 13:08

Laboratory ID Number: BB09413

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	6/1/21 09:55	6/4/21 11:33		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	6/1/21 09:55	6/4/21 11:33		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	6/1/21 09:55	6/4/21 11:33		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	6/1/21 09:55	6/4/21 11:33		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/1/21 09:55	6/4/21 11:33		1.015	Not Detected	mg/L	0.021315	0.406	U
* Sodium, Total	6/1/21 09:55	6/4/21 11:33		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	6/1/21 09:55	6/2/21 16:20		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	6/1/21 09:55	6/2/21 16:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	6/1/21 09:55	6/2/21 16:20		1.015	Not Detected	mg/L	0.000101	0.000203	U
* Beryllium, Total	6/1/21 09:55	6/2/21 16:20		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/21 09:55	6/2/21 16:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/21 09:55	6/2/21 16:20		1.015	0.000316	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/1/21 09:55	6/2/21 16:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	6/1/21 09:55	6/2/21 16:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	6/1/21 09:55	6/2/21 16:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	6/1/21 09:55	6/2/21 16:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	6/1/21 09:55	6/2/21 16:20		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	6/1/21 09:55	6/2/21 16:20		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	6/1/21 09:55	6/2/21 16:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	6/4/21 09:30	6/7/21 13:42		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	5/24/21 10:46	5/26/21 12:50		1	Not Detected	mg/L		25	U
Analytical Method: SM4500CI E			Analyst: JCC						
* Chloride	6/3/21 10:33	6/3/21 10:33		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	6/4/21 10:11	6/4/21 10:11		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011			Analyst: JCC						
* Sulfate	6/8/21 14:00	6/8/21 14:00		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Batch QC Summary

Customer Account: WMWBARAPFB

Sample Date: 5/19/21 13:30

Customer ID:

Delivery Date: 5/20/21 13:08

Description: Barry Ash Pond Field Blank-3

Laboratory ID Number: BB09413

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BB09697	Mercury, Total by CVAA	mg/L	0.0000933	0.000500	0.004	0.00392	0.00389	0.00392	0.00340 to 0.00460	98.1	70.0 to 130	0.883	20.0	
BB09704	Chromium, Total	mg/L	-0.000051	0.000440	0.10	0.101	0.101	0.100	0.0850 to 0.115	99.5	70.0 to 130	0.497	20.0	
BB09704	Sodium, Total	mg/L	0.00822	0.0660	5.00	10.6	10.6	5.07	4.25 to 5.75	106	70.0 to 130	0.0554	20.0	
BB09704	Thallium, Total	mg/L	-0.0000034	0.000147	0.10	0.107	0.108	0.101	0.0850 to 0.115	107	70.0 to 130	1.01	20.0	
BB09704	Arsenic, Total	mg/L	0.000017	0.000147	0.10	0.102	0.104	0.105	0.0850 to 0.115	102	70.0 to 130	1.41	20.0	
BB09704	Iron, Total	mg/L	0.00281	0.0176	0.2	0.244	0.242	0.209	0.170 to 0.230	105	70.0 to 130	0.767	20.0	
BB09704	Barium, Total	mg/L	-0.0000322	0.000200	0.10	0.136	0.141	0.112	0.0850 to 0.115	115	70.0 to 130	3.52	20.0	
BB09704	Boron, Total	mg/L	0.0120	0.0650	1.00	1.02	1.02	1.01	0.850 to 1.15	102	70.0 to 130	0.139	20.0	
BB09704	Potassium, Total	mg/L	-0.0123	0.367	10.0	10.1	10.3	9.57	8.50 to 11.5	93.0	70.0 to 130	1.49	20.0	
BB09704	Lithium, Total	mg/L	0.000134	0.0154	0.20	0.205	0.205	0.200	0.170 to 0.230	103	70.0 to 130	0.0492	20.0	
BB09704	Antimony, Total	mg/L	0.0000982	0.00100	0.10	0.106	0.109	0.107	0.0850 to 0.115	106	70.0 to 130	2.70	20.0	
BB09704	Manganese, Total	mg/L	-0.0000182	0.000147	0.10	0.103	0.105	0.102	0.0850 to 0.115	99.5	70.0 to 130	1.99	20.0	
BB09704	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.0957	0.0973	0.0987	0.0850 to 0.115	95.6	70.0 to 130	1.62	20.0	
BB09704	Selenium, Total	mg/L	0.0000053	0.00100	0.10	0.0965	0.0960	0.0996	0.0850 to 0.115	96.5	70.0 to 130	0.513	20.0	
BB09704	Beryllium, Total	mg/L	-0.0000003	0.000880	0.10	0.0940	0.0895	0.0971	0.0850 to 0.115	94.0	70.0 to 130	4.89	20.0	
BB09704	Calcium, Total	mg/L	0.0919	0.152	5.00	6.25	6.22	5.34	4.25 to 5.75	107	70.0 to 130	0.479	20.0	
BB09704	Cobalt, Total	mg/L	-0.0000003	0.000147	0.10	0.101	0.102	0.100	0.0850 to 0.115	99.7	70.0 to 130	0.787	20.0	
BB09704	Lead, Total	mg/L	0.0000053	0.000147	0.10	0.107	0.114	0.102	0.0850 to 0.115	107	70.0 to 130	6.56	20.0	
BB09704	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.127	20.0	
BB09704	Magnesium, Total	mg/L	0.00959	0.0462	5.00	5.98	5.99	5.30	4.25 to 5.75	106	70.0 to 130	0.151	20.0	

Comments:

Batch QC Summary

Customer Account: WMWBARAPFB

Sample Date: 5/19/21 13:30

Customer ID:

Delivery Date: 5/20/21 13:08

Description: Barry Ash Pond Field Blank-3

Laboratory ID Number: BB09413

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BB09413	Sulfate	mg/L	-0.234	1.00	20.0	19.5	-0.569	20.1	18.0 to 22.0	97.5	80.0 to 120	0.00	20.0
BB09413	Fluoride	mg/L	0.016	0.100	2.50	2.58	0.0283	2.64	2.25 to 2.75	103	80.0 to 120	0.00	20.0
BB09412	Solids, Dissolved	mg/L	-2.00	25.0			298	53.0	40.0 to 60.0			0.334	5.00
BB09413	Chloride	mg/L	-0.0766	1.00	10.0	9.95	0.0629	10.1	9.00 to 11.0	99.5	80.0 to 120	0.00	20.0

Comments:

Certificate Of Analysis

Description: Barry Ash Pond - MW-23H

Location Code: WMWBARAP
Collected: 5/24/21 12:51
Customer ID:
Submittal Date: 5/26/21 13:34

Laboratory ID Number: BB09697

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	6/1/21 09:55	6/4/21 11:36		1.015	0.0785	mg/L	0.030000	0.1015	J
* Calcium, Total	6/1/21 09:55	6/4/21 11:36		1.015	27.1	mg/L	0.070035	0.406	
* Iron, Total	6/1/21 09:55	6/4/21 16:55		50.75	65.9	mg/L	0.40600	2.03	
* Lithium, Total	6/1/21 09:55	6/4/21 11:36		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/1/21 09:55	6/4/21 11:36		1.015	7.20	mg/L	0.021315	0.406	
* Sodium, Total	6/1/21 09:55	6/4/21 11:36		1.015	20.4	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	6/1/21 06:55	6/2/21 15:32		101.5	66.4	mg/L	0.8120	4.06	RA
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	6/1/21 09:55	6/2/21 16:23		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	6/1/21 09:55	6/2/21 16:23		1.015	0.0133	mg/L	0.000068	0.000203	
* Barium, Total	6/1/21 09:55	6/2/21 16:23		1.015	0.208	mg/L	0.000101	0.000203	
* Beryllium, Total	6/1/21 09:55	6/2/21 16:23		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/21 09:55	6/2/21 16:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/21 09:55	6/2/21 16:23		1.015	0.000814	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/1/21 09:55	6/2/21 16:23		1.015	0.00682	mg/L	0.000068	0.000203	
* Lead, Total	6/1/21 09:55	6/2/21 16:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	6/1/21 09:55	6/2/21 16:23		1.015	0.000690	mg/L	0.000068	0.000203	
* Potassium, Total	6/1/21 09:55	6/2/21 16:23		1.015	1.05	mg/L	0.169505	0.5075	
* Manganese, Total	6/1/21 09:55	6/2/21 16:23		1.015	1.06	mg/L	0.000068	0.000203	
* Selenium, Total	6/1/21 09:55	6/2/21 16:23		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	6/1/21 09:55	6/2/21 16:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	6/1/21 06:55	6/1/21 12:03		1.015	1.04	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	6/4/21 09:30	6/7/21 13:44		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	6/1/21 09:41	6/1/21 10:34		1	204	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	5/28/21 12:00	6/2/21 09:55		1	244	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-23H

Location Code: WMWBARAP
Collected: 5/24/21 12:51
Customer ID:
Submittal Date: 5/26/21 13:34

Laboratory ID Number: BB09697

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	6/1/21 09:41	6/1/21 10:34		1	204	mg/L			
Carbonate Alkalinity, (calc.)	6/1/21 09:41	6/1/21 10:34		1	0.03	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	6/3/21 14:47	6/3/21 14:47		1	6.33	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/4/21 10:22	6/4/21 10:22		1	0.0734	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/8/21 14:17	6/8/21 14:17		1	3.99	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	5/24/21 12:47	5/24/21 12:47			340.93	uS/cm			FA
pH	5/24/21 12:47	5/24/21 12:47			6.19	SU			FA
Temperature	5/24/21 12:47	5/24/21 12:47			20.22	C			FA
Turbidity	5/24/21 12:47	5/24/21 12:47			4.01	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 5/24/21 12:51
Customer ID:
Delivery Date: 5/26/21 13:34

Description: Barry Ash Pond - MW-23H

Laboratory ID Number: BB09697

Sample	Analysis	Units	MB				Standard		Rec		Prec	Limit	
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec			Limit
BB09697	Mercury, Total by CVAA	mg/L	0.0000933	0.000500	0.004	0.00392	0.00389	0.00392	0.00340 to 0.00460	98.1	70.0 to 130	0.883	20.0
BB09704	Chromium, Total	mg/L	-0.000051	0.000440	0.10	0.101	0.101	0.100	0.0850 to 0.115	99.5	70.0 to 130	0.497	20.0
BB09704	Sodium, Total	mg/L	0.00822	0.0660	5.00	10.6	10.6	5.07	4.25 to 5.75	106	70.0 to 130	0.0554	20.0
BB09704	Thallium, Total	mg/L	-0.0000034	0.000147	0.10	0.107	0.108	0.101	0.0850 to 0.115	107	70.0 to 130	1.01	20.0
BB09697	Manganese, Dissolved	mg/L	0.0000447	0.000147	0.10	1.13	1.14	0.107	0.0850 to 0.115	88.8	70.0 to 130	1.16	20.0
BB09704	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.127	20.0
BB09704	Magnesium, Total	mg/L	0.00959	0.0462	5.00	5.98	5.99	5.30	4.25 to 5.75	106	70.0 to 130	0.151	20.0
BB09704	Barium, Total	mg/L	-0.0000322	0.000200	0.10	0.136	0.141	0.112	0.0850 to 0.115	115	70.0 to 130	3.52	20.0
BB09704	Boron, Total	mg/L	0.0120	0.0650	1.00	1.02	1.02	1.01	0.850 to 1.15	102	70.0 to 130	0.139	20.0
BB09704	Potassium, Total	mg/L	-0.0123	0.367	10.0	10.1	10.3	9.57	8.50 to 11.5	93.0	70.0 to 130	1.49	20.0
BB09704	Lithium, Total	mg/L	0.000134	0.0154	0.20	0.205	0.205	0.200	0.170 to 0.230	103	70.0 to 130	0.0492	20.0
BB09704	Antimony, Total	mg/L	0.0000982	0.00100	0.10	0.106	0.109	0.107	0.0850 to 0.115	106	70.0 to 130	2.70	20.0
BB09704	Manganese, Total	mg/L	-0.0000182	0.000147	0.10	0.103	0.105	0.102	0.0850 to 0.115	99.5	70.0 to 130	1.99	20.0
BB09704	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.0957	0.0973	0.0987	0.0850 to 0.115	95.6	70.0 to 130	1.62	20.0
BB09704	Selenium, Total	mg/L	0.0000053	0.00100	0.10	0.0965	0.0960	0.0996	0.0850 to 0.115	96.5	70.0 to 130	0.513	20.0
BB09704	Beryllium, Total	mg/L	-0.0000003	0.000880	0.10	0.0940	0.0895	0.0971	0.0850 to 0.115	94.0	70.0 to 130	4.89	20.0
BB09704	Calcium, Total	mg/L	0.0919	0.152	5.00	6.25	6.22	5.34	4.25 to 5.75	107	70.0 to 130	0.479	20.0
BB09704	Cobalt, Total	mg/L	-0.0000003	0.000147	0.10	0.101	0.102	0.100	0.0850 to 0.115	99.7	70.0 to 130	0.787	20.0
BB09704	Lead, Total	mg/L	0.0000053	0.000147	0.10	0.107	0.114	0.102	0.0850 to 0.115	107	70.0 to 130	6.56	20.0
BB09697	Iron, Dissolved	mg/L	0.000128	0.0176	0.2	66.8	66.0	0.206	0.170 to 0.230	210	70.0 to 130	1.19	20.0
BB09704	Arsenic, Total	mg/L	0.000017	0.000147	0.10	0.102	0.104	0.105	0.0850 to 0.115	102	70.0 to 130	1.41	20.0
BB09704	Iron, Total	mg/L	0.00281	0.0176	0.2	0.244	0.242	0.209	0.170 to 0.230	105	70.0 to 130	0.767	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/21 12:51

Customer ID:

Delivery Date: 5/26/21 13:34

Description: Barry Ash Pond - MW-23H

Laboratory ID Number: BB09697

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BB09706	Solids, Dissolved	mg/L	1.00	25.0			323	53.0	40.0 to 60.0			1.82	5.00
BB09706	Sulfate	mg/L	-0.276	1.00	20.0	21.5	1.36	20.1	18.0 to 22.0	102	80.0 to 120	13.3	20.0
BB09708	Alkalinity, Total as CaCO3	mg/L					296	52.8	45.0 to 55.0			1.01	10.0
BB09706	Fluoride	mg/L	0.0172	0.100	2.50	2.68	0.0506	2.64	2.25 to 2.75	107	80.0 to 120	0.00	20.0
BB09706	Chloride	mg/L	-0.0571	1.00	250	435	176	10.1	9.00 to 11.0	102	80.0 to 120	2.25	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond Field Blank-4

Location Code: WMWBARAPFB
Collected: 5/24/21 13:10
Customer ID:
Submittal Date: 5/26/21 13:35

Laboratory ID Number: BB09698

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	6/1/21 09:55	6/4/21 11:40		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	6/1/21 09:55	6/4/21 11:40		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	6/1/21 09:55	6/4/21 11:40		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	6/1/21 09:55	6/4/21 11:40		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/1/21 09:55	6/4/21 11:40		1.015	Not Detected	mg/L	0.021315	0.406	U
* Sodium, Total	6/1/21 09:55	6/4/21 11:40		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	6/1/21 09:55	6/2/21 16:27		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	6/1/21 09:55	6/2/21 16:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	6/1/21 09:55	6/2/21 16:27		1.015	Not Detected	mg/L	0.000101	0.000203	U
* Beryllium, Total	6/1/21 09:55	6/2/21 16:27		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/21 09:55	6/2/21 16:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/21 09:55	6/2/21 16:27		1.015	0.000276	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/1/21 09:55	6/2/21 16:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	6/1/21 09:55	6/2/21 16:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	6/1/21 09:55	6/2/21 16:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	6/1/21 09:55	6/2/21 16:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	6/1/21 09:55	6/2/21 16:27		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	6/1/21 09:55	6/2/21 16:27		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	6/1/21 09:55	6/2/21 16:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	6/4/21 09:30	6/7/21 14:00		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	5/28/21 12:00	6/2/21 09:55		1	Not Detected	mg/L		25	U
Analytical Method: SM4500CI E			Analyst: JCC						
* Chloride	6/3/21 14:48	6/3/21 14:48		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	6/4/21 10:24	6/4/21 10:24		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011			Analyst: JCC						
* Sulfate	6/8/21 14:18	6/8/21 14:18		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Batch QC Summary

Customer Account: WMWBARAPFB

Sample Date: 5/24/21 13:10

Customer ID:

Delivery Date: 5/26/21 13:35

Description: Barry Ash Pond Field Blank-4

Laboratory ID Number: BB09698

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB09704	Arsenic, Total	mg/L	0.000017	0.000147	0.10	0.102	0.104	0.105	0.0850 to 0.115	102	70.0 to 130	1.41	20.0
BB09704	Iron, Total	mg/L	0.00281	0.0176	0.2	0.244	0.242	0.209	0.170 to 0.230	105	70.0 to 130	0.767	20.0
BB09704	Barium, Total	mg/L	-0.0000322	0.000200	0.10	0.136	0.141	0.112	0.0850 to 0.115	115	70.0 to 130	3.52	20.0
BB09704	Boron, Total	mg/L	0.0120	0.0650	1.00	1.02	1.02	1.01	0.850 to 1.15	102	70.0 to 130	0.139	20.0
BB09704	Potassium, Total	mg/L	-0.0123	0.367	10.0	10.1	10.3	9.57	8.50 to 11.5	93.0	70.0 to 130	1.49	20.0
BB09704	Lithium, Total	mg/L	0.000134	0.0154	0.20	0.205	0.205	0.200	0.170 to 0.230	103	70.0 to 130	0.0492	20.0
BB09704	Antimony, Total	mg/L	0.0000982	0.00100	0.10	0.106	0.109	0.107	0.0850 to 0.115	106	70.0 to 130	2.70	20.0
BB09704	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.127	20.0
BB09704	Magnesium, Total	mg/L	0.00959	0.0462	5.00	5.98	5.99	5.30	4.25 to 5.75	106	70.0 to 130	0.151	20.0
BB09704	Beryllium, Total	mg/L	-0.0000003	0.000880	0.10	0.0940	0.0895	0.0971	0.0850 to 0.115	94.0	70.0 to 130	4.89	20.0
BB09704	Calcium, Total	mg/L	0.0919	0.152	5.00	6.25	6.22	5.34	4.25 to 5.75	107	70.0 to 130	0.479	20.0
BB09704	Cobalt, Total	mg/L	-0.0000003	0.000147	0.10	0.101	0.102	0.100	0.0850 to 0.115	99.7	70.0 to 130	0.787	20.0
BB09704	Lead, Total	mg/L	0.0000053	0.000147	0.10	0.107	0.114	0.102	0.0850 to 0.115	107	70.0 to 130	6.56	20.0
BB09707	Mercury, Total by CVAA	mg/L	0.0000889	0.000500	0.004	0.00397	0.00394	0.00400	0.00340 to 0.00460	99.3	70.0 to 130	0.738	20.0
BB09704	Manganese, Total	mg/L	-0.0000182	0.000147	0.10	0.103	0.105	0.102	0.0850 to 0.115	99.5	70.0 to 130	1.99	20.0
BB09704	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.0957	0.0973	0.0987	0.0850 to 0.115	95.6	70.0 to 130	1.62	20.0
BB09704	Selenium, Total	mg/L	0.0000053	0.00100	0.10	0.0965	0.0960	0.0996	0.0850 to 0.115	96.5	70.0 to 130	0.513	20.0
BB09704	Chromium, Total	mg/L	-0.000051	0.000440	0.10	0.101	0.101	0.100	0.0850 to 0.115	99.5	70.0 to 130	0.497	20.0
BB09704	Sodium, Total	mg/L	0.00822	0.0660	5.00	10.6	10.6	5.07	4.25 to 5.75	106	70.0 to 130	0.0554	20.0
BB09704	Thallium, Total	mg/L	-0.0000034	0.000147	0.10	0.107	0.108	0.101	0.0850 to 0.115	107	70.0 to 130	1.01	20.0

Comments:

Batch QC Summary

Customer Account: WMWBARAPFB

Sample Date: 5/24/21 13:10

Customer ID:

Delivery Date: 5/26/21 13:35

Description: Barry Ash Pond Field Blank-4

Laboratory ID Number: BB09698

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB09706	Sulfate	mg/L	-0.276	1.00	20.0	21.5	1.36	20.1	18.0 to 22.0	102	80.0 to 120	13.3	20.0
BB09706	Solids, Dissolved	mg/L	1.00	25.0			323	53.0	40.0 to 60.0			1.82	5.00
BB09706	Chloride	mg/L	-0.0571	1.00	250	435	176	10.1	9.00 to 11.0	102	80.0 to 120	2.25	20.0
BB09706	Fluoride	mg/L	0.0172	0.100	2.50	2.68	0.0506	2.64	2.25 to 2.75	107	80.0 to 120	0.00	20.0

Comments:

Certificate Of Analysis

Description: Barry Ash Pond - MW-19H

Location Code: WMWBARAP
Collected: 5/25/21 08:51
Customer ID:
Submittal Date: 5/26/21 13:34

Laboratory ID Number: BB09699

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	6/1/21 09:55	6/4/21 11:43		1.015	0.252	mg/L	0.030000	0.1015	
* Calcium, Total	6/1/21 09:55	6/4/21 11:43		1.015	23.9	mg/L	0.070035	0.406	
* Iron, Total	6/1/21 09:55	6/4/21 16:58		20.3	19.8	mg/L	0.1624	0.812	
* Lithium, Total	6/1/21 09:55	6/4/21 11:43		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/1/21 09:55	6/4/21 11:43		1.015	4.78	mg/L	0.021315	0.406	
* Sodium, Total	6/1/21 09:55	6/4/21 11:43		1.015	11.5	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	6/1/21 06:55	6/2/21 15:42		10.15	19.6	mg/L	0.08120	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	6/1/21 09:55	6/2/21 16:30		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	6/1/21 09:55	6/2/21 16:30		1.015	0.00150	mg/L	0.000068	0.000203	
* Barium, Total	6/1/21 09:55	6/2/21 16:30		1.015	0.104	mg/L	0.000101	0.000203	
* Beryllium, Total	6/1/21 09:55	6/2/21 16:30		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/21 09:55	6/2/21 16:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/21 09:55	6/2/21 16:30		1.015	0.000391	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/1/21 09:55	6/2/21 16:30		1.015	0.00294	mg/L	0.000068	0.000203	
* Lead, Total	6/1/21 09:55	6/2/21 16:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	6/1/21 09:55	6/2/21 16:30		1.015	0.000124	mg/L	0.000068	0.000203	J
* Potassium, Total	6/1/21 09:55	6/2/21 16:30		1.015	1.56	mg/L	0.169505	0.5075	
* Manganese, Total	6/1/21 09:55	6/2/21 16:30		1.015	1.08	mg/L	0.000068	0.000203	
* Selenium, Total	6/1/21 09:55	6/2/21 16:30		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	6/1/21 09:55	6/2/21 16:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	6/1/21 06:55	6/1/21 12:25		1.015	1.11	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	6/4/21 09:30	6/7/21 14:03		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	6/1/21 09:41	6/1/21 10:34		1	94.3	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	5/28/21 12:00	6/2/21 09:55		1	162	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-19H

Location Code: WMWBARAP

Collected: 5/25/21 08:51

Customer ID:

Submittal Date: 5/26/21 13:34

Laboratory ID Number: BB09699

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	6/1/21 09:41	6/1/21 10:34		1	94.3	mg/L			
Carbonate Alkalinity, (calc.)	6/1/21 09:41	6/1/21 10:34		1	0.01	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	6/3/21 14:49	6/3/21 14:49		1	10.7	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/4/21 10:25	6/4/21 10:25		1	0.0673	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/8/21 14:19	6/8/21 14:19		1	26.6	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	5/25/21 08:48	5/25/21 08:48			227.79	uS/cm			FA
pH	5/25/21 08:48	5/25/21 08:48			6.10	SU			FA
Temperature	5/25/21 08:48	5/25/21 08:48			20.11	C			FA
Turbidity	5/25/21 08:48	5/25/21 08:48			3.12	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/21 08:51

Customer ID:

Delivery Date: 5/26/21 13:34

Description: Barry Ash Pond - MW-19H

Laboratory ID Number: BB09699

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB09704	Chromium, Total	mg/L	-0.000051	0.000440	0.10	0.101	0.101	0.100	0.0850 to 0.115	99.5	70.0 to 130	0.497	20.0
BB09704	Sodium, Total	mg/L	0.00822	0.0660	5.00	10.6	10.6	5.07	4.25 to 5.75	106	70.0 to 130	0.0554	20.0
BB09704	Thallium, Total	mg/L	-0.0000034	0.000147	0.10	0.107	0.108	0.101	0.0850 to 0.115	107	70.0 to 130	1.01	20.0
BB09704	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.127	20.0
BB09704	Magnesium, Total	mg/L	0.00959	0.0462	5.00	5.98	5.99	5.30	4.25 to 5.75	106	70.0 to 130	0.151	20.0
BB09704	Beryllium, Total	mg/L	-0.0000003	0.000880	0.10	0.0940	0.0895	0.0971	0.0850 to 0.115	94.0	70.0 to 130	4.89	20.0
BB09704	Calcium, Total	mg/L	0.0919	0.152	5.00	6.25	6.22	5.34	4.25 to 5.75	107	70.0 to 130	0.479	20.0
BB09704	Cobalt, Total	mg/L	-0.0000003	0.000147	0.10	0.101	0.102	0.100	0.0850 to 0.115	99.7	70.0 to 130	0.787	20.0
BB09704	Lead, Total	mg/L	0.0000053	0.000147	0.10	0.107	0.114	0.102	0.0850 to 0.115	107	70.0 to 130	6.56	20.0
BB09707	Mercury, Total by CVAA	mg/L	0.0000889	0.000500	0.004	0.00397	0.00394	0.00400	0.00340 to 0.00460	99.3	70.0 to 130	0.738	20.0
BB09704	Arsenic, Total	mg/L	0.000017	0.000147	0.10	0.102	0.104	0.105	0.0850 to 0.115	102	70.0 to 130	1.41	20.0
BB09704	Iron, Total	mg/L	0.00281	0.0176	0.2	0.244	0.242	0.209	0.170 to 0.230	105	70.0 to 130	0.767	20.0
BB09708	Iron, Dissolved	mg/L	0.000128	0.0176	0.2	112	111	0.206	0.170 to 0.230	404	70.0 to 130	1.48	20.0
BB09704	Barium, Total	mg/L	-0.0000322	0.000200	0.10	0.136	0.141	0.112	0.0850 to 0.115	115	70.0 to 130	3.52	20.0
BB09704	Boron, Total	mg/L	0.0120	0.0650	1.00	1.02	1.02	1.01	0.850 to 1.15	102	70.0 to 130	0.139	20.0
BB09704	Potassium, Total	mg/L	-0.0123	0.367	10.0	10.1	10.3	9.57	8.50 to 11.5	93.0	70.0 to 130	1.49	20.0
BB09704	Lithium, Total	mg/L	0.000134	0.0154	0.20	0.205	0.205	0.200	0.170 to 0.230	103	70.0 to 130	0.0492	20.0
BB09704	Antimony, Total	mg/L	0.0000982	0.00100	0.10	0.106	0.109	0.107	0.0850 to 0.115	106	70.0 to 130	2.70	20.0
BB09704	Manganese, Total	mg/L	-0.0000182	0.000147	0.10	0.103	0.105	0.102	0.0850 to 0.115	99.5	70.0 to 130	1.99	20.0
BB09704	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.0957	0.0973	0.0987	0.0850 to 0.115	95.6	70.0 to 130	1.62	20.0
BB09704	Selenium, Total	mg/L	0.0000053	0.00100	0.10	0.0965	0.0960	0.0996	0.0850 to 0.115	96.5	70.0 to 130	0.513	20.0
BB09708	Manganese, Dissolved	mg/L	0.0000447	0.000147	0.10	0.320	0.312	0.107	0.0850 to 0.115	105	70.0 to 130	2.61	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/21 08:51

Customer ID:

Delivery Date: 5/26/21 13:34

Description: Barry Ash Pond - MW-19H

Laboratory ID Number: BB09699

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BB09706	Solids, Dissolved	mg/L	1.00	25.0			323	53.0	40.0 to 60.0			1.82	5.00
BB09706	Chloride	mg/L	-0.0571	1.00	250	435	176	10.1	9.00 to 11.0	102	80.0 to 120	2.25	20.0
BB09706	Fluoride	mg/L	0.0172	0.100	2.50	2.68	0.0506	2.64	2.25 to 2.75	107	80.0 to 120	0.00	20.0
BB09706	Sulfate	mg/L	-0.276	1.00	20.0	21.5	1.36	20.1	18.0 to 22.0	102	80.0 to 120	13.3	20.0
BB09708	Alkalinity, Total as CaCO3	mg/L					296	52.8	45.0 to 55.0			1.01	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-14V

Location Code: WMWBARAP
Collected: 5/25/21 09:56
Customer ID:
Submittal Date: 5/26/21 13:34

Laboratory ID Number: BB09700

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA		Preparation Method: EPA 1638					
* Boron, Total	6/1/21 09:55	6/4/21 11:46		1.015	0.430	mg/L	0.030000	0.1015	
* Calcium, Total	6/1/21 09:55	6/4/21 11:46		1.015	4.66	mg/L	0.070035	0.406	
* Iron, Total	6/1/21 09:55	6/4/21 17:02		50.75	12.6	mg/L	0.40600	2.03	
* Lithium, Total	6/1/21 09:55	6/4/21 11:46		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/1/21 09:55	6/4/21 11:46		1.015	2.43	mg/L	0.021315	0.406	
* Sodium, Total	6/1/21 09:55	6/4/21 17:02		50.75	197	mg/L	1.5225	20.3	
Analytical Method: EPA 200.7		Analyst: RDA		Preparation Method: EPA 1638					
* Iron, Dissolved	6/1/21 06:55	6/2/21 15:45		10.15	13.0	mg/L	0.08120	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ		Preparation Method: EPA 1638					
* Antimony, Total	6/1/21 09:55	6/2/21 16:34		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	6/1/21 09:55	6/2/21 16:34		1.015	0.00324	mg/L	0.000068	0.000203	
* Barium, Total	6/1/21 09:55	6/2/21 16:34		1.015	0.0729	mg/L	0.000101	0.000203	
* Beryllium, Total	6/1/21 09:55	6/2/21 16:34		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/21 09:55	6/2/21 16:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/21 09:55	6/2/21 16:34		1.015	0.00113	mg/L	0.000203	0.001015	
* Cobalt, Total	6/1/21 09:55	6/2/21 16:34		1.015	0.00271	mg/L	0.000068	0.000203	
* Lead, Total	6/1/21 09:55	6/2/21 16:34		1.015	0.0000724	mg/L	0.000068	0.000203	J
* Molybdenum, Total	6/1/21 09:55	6/2/21 16:34		1.015	0.00135	mg/L	0.000068	0.000203	
* Potassium, Total	6/1/21 09:55	6/2/21 16:34		1.015	2.39	mg/L	0.169505	0.5075	
* Manganese, Total	6/1/21 09:55	6/2/21 16:34		1.015	0.170	mg/L	0.000068	0.000203	
* Selenium, Total	6/1/21 09:55	6/2/21 16:34		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	6/1/21 09:55	6/2/21 16:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ		Preparation Method: EPA 1638					
* Manganese, Dissolved	6/1/21 06:55	6/1/21 12:28		1.015	0.177	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB		Preparation Method: EPA 1638					
* Mercury, Total by CVAA	6/4/21 09:30	6/7/21 14:05		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG		Preparation Method: EPA 1638					
Alkalinity, Total as CaCO3	6/1/21 09:41	6/1/21 10:34		1	193	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW		Preparation Method: EPA 1638					
* Solids, Dissolved	5/28/21 12:00	6/2/21 09:55		1	520	mg/L		50	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-14V

Location Code: WMWBARAP
Collected: 5/25/21 09:56
Customer ID:
Submittal Date: 5/26/21 13:34

Laboratory ID Number: BB09700

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	6/1/21 09:41	6/1/21 10:34		1	193	mg/L			
Carbonate Alkalinity, (calc.)	6/1/21 09:41	6/1/21 10:34		1	0.18	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	6/3/21 14:50	6/3/21 14:50		25	210	mg/L	12.50	25	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/4/21 10:26	6/4/21 10:26		1	0.378	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/8/21 14:32	6/8/21 14:32		2	39.5	mg/L	1.00	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	5/25/21 09:53	5/25/21 09:53			943.96	uS/cm			FA
pH	5/25/21 09:53	5/25/21 09:53			7.20	SU			FA
Temperature	5/25/21 09:53	5/25/21 09:53			21.13	C			FA
Turbidity	5/25/21 09:53	5/25/21 09:53			2.56	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/21 09:56

Customer ID:

Delivery Date: 5/26/21 13:34

Description: Barry Ash Pond - MW-14V

Laboratory ID Number: BB09700

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB09704	Chromium, Total	mg/L	-0.000051	0.000440	0.10	0.101	0.101	0.100	0.0850 to 0.115	99.5	70.0 to 130	0.497	20.0
BB09704	Sodium, Total	mg/L	0.00822	0.0660	5.00	10.6	10.6	5.07	4.25 to 5.75	106	70.0 to 130	0.0554	20.0
BB09704	Thallium, Total	mg/L	-0.0000034	0.000147	0.10	0.107	0.108	0.101	0.0850 to 0.115	107	70.0 to 130	1.01	20.0
BB09704	Barium, Total	mg/L	-0.0000322	0.000200	0.10	0.136	0.141	0.112	0.0850 to 0.115	115	70.0 to 130	3.52	20.0
BB09704	Boron, Total	mg/L	0.0120	0.0650	1.00	1.02	1.02	1.01	0.850 to 1.15	102	70.0 to 130	0.139	20.0
BB09704	Potassium, Total	mg/L	-0.0123	0.367	10.0	10.1	10.3	9.57	8.50 to 11.5	93.0	70.0 to 130	1.49	20.0
BB09704	Lithium, Total	mg/L	0.000134	0.0154	0.20	0.205	0.205	0.200	0.170 to 0.230	103	70.0 to 130	0.0492	20.0
BB09704	Antimony, Total	mg/L	0.0000982	0.00100	0.10	0.106	0.109	0.107	0.0850 to 0.115	106	70.0 to 130	2.70	20.0
BB09704	Arsenic, Total	mg/L	0.000017	0.000147	0.10	0.102	0.104	0.105	0.0850 to 0.115	102	70.0 to 130	1.41	20.0
BB09704	Iron, Total	mg/L	0.00281	0.0176	0.2	0.244	0.242	0.209	0.170 to 0.230	105	70.0 to 130	0.767	20.0
BB09708	Iron, Dissolved	mg/L	0.000128	0.0176	0.2	112	111	0.206	0.170 to 0.230	404	70.0 to 130	1.48	20.0
BB09704	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.127	20.0
BB09704	Magnesium, Total	mg/L	0.00959	0.0462	5.00	5.98	5.99	5.30	4.25 to 5.75	106	70.0 to 130	0.151	20.0
BB09704	Manganese, Total	mg/L	-0.0000182	0.000147	0.10	0.103	0.105	0.102	0.0850 to 0.115	99.5	70.0 to 130	1.99	20.0
BB09704	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.0957	0.0973	0.0987	0.0850 to 0.115	95.6	70.0 to 130	1.62	20.0
BB09704	Selenium, Total	mg/L	0.0000053	0.00100	0.10	0.0965	0.0960	0.0996	0.0850 to 0.115	96.5	70.0 to 130	0.513	20.0
BB09708	Manganese, Dissolved	mg/L	0.0000447	0.000147	0.10	0.320	0.312	0.107	0.0850 to 0.115	105	70.0 to 130	2.61	20.0
BB09704	Beryllium, Total	mg/L	-0.0000003	0.000880	0.10	0.0940	0.0895	0.0971	0.0850 to 0.115	94.0	70.0 to 130	4.89	20.0
BB09704	Calcium, Total	mg/L	0.0919	0.152	5.00	6.25	6.22	5.34	4.25 to 5.75	107	70.0 to 130	0.479	20.0
BB09704	Cobalt, Total	mg/L	-0.0000003	0.000147	0.10	0.101	0.102	0.100	0.0850 to 0.115	99.7	70.0 to 130	0.787	20.0
BB09704	Lead, Total	mg/L	0.0000053	0.000147	0.10	0.107	0.114	0.102	0.0850 to 0.115	107	70.0 to 130	6.56	20.0
BB09707	Mercury, Total by CVAA	mg/L	0.0000889	0.000500	0.004	0.00397	0.00394	0.00400	0.00340 to 0.00460	99.3	70.0 to 130	0.738	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/21 09:56

Customer ID:

Delivery Date: 5/26/21 13:34

Description: Barry Ash Pond - MW-14V

Laboratory ID Number: BB09700

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB09706	Sulfate	mg/L	-0.276	1.00	20.0	21.5	1.36	20.1	18.0 to 22.0	102	80.0 to 120	13.3	20.0
BB09708	Alkalinity, Total as CaCO3	mg/L					296	52.8	45.0 to 55.0			1.01	10.0
BB09706	Solids, Dissolved	mg/L	1.00	25.0			323	53.0	40.0 to 60.0			1.82	5.00
BB09706	Fluoride	mg/L	0.0172	0.100	2.50	2.68	0.0506	2.64	2.25 to 2.75	107	80.0 to 120	0.00	20.0
BB09706	Chloride	mg/L	-0.0571	1.00	250	435	176	10.1	9.00 to 11.0	102	80.0 to 120	2.25	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-14V DUP

Location Code: WMWBARAP
Collected: 5/25/21 09:56
Customer ID:
Submittal Date: 5/26/21 13:34

Laboratory ID Number: BB09701

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	6/1/21 09:55	6/4/21 11:50		1.015	0.435	mg/L	0.030000	0.1015	
* Calcium, Total	6/1/21 09:55	6/4/21 11:50		1.015	4.75	mg/L	0.070035	0.406	
* Iron, Total	6/1/21 09:55	6/4/21 17:05		50.75	12.6	mg/L	0.40600	2.03	
* Lithium, Total	6/1/21 09:55	6/4/21 11:50		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/1/21 09:55	6/4/21 11:50		1.015	2.48	mg/L	0.021315	0.406	
* Sodium, Total	6/1/21 09:55	6/4/21 17:05		50.75	197	mg/L	1.5225	20.3	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	6/1/21 06:55	6/2/21 15:49		10.15	13.2	mg/L	0.08120	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	6/1/21 09:55	6/2/21 16:37		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	6/1/21 09:55	6/2/21 16:37		1.015	0.00328	mg/L	0.000068	0.000203	
* Barium, Total	6/1/21 09:55	6/2/21 16:37		1.015	0.0692	mg/L	0.000101	0.000203	
* Beryllium, Total	6/1/21 09:55	6/2/21 16:37		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/21 09:55	6/2/21 16:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/21 09:55	6/2/21 16:37		1.015	0.000725	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/1/21 09:55	6/2/21 16:37		1.015	0.00260	mg/L	0.000068	0.000203	
* Lead, Total	6/1/21 09:55	6/2/21 16:37		1.015	0.0000700	mg/L	0.000068	0.000203	J
* Molybdenum, Total	6/1/21 09:55	6/2/21 16:37		1.015	0.00131	mg/L	0.000068	0.000203	
* Potassium, Total	6/1/21 09:55	6/2/21 16:37		1.015	2.43	mg/L	0.169505	0.5075	
* Manganese, Total	6/1/21 09:55	6/2/21 16:37		1.015	0.169	mg/L	0.000068	0.000203	
* Selenium, Total	6/1/21 09:55	6/2/21 16:37		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	6/1/21 09:55	6/2/21 16:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	6/1/21 06:55	6/1/21 12:32		1.015	0.172	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	6/4/21 09:30	6/7/21 14:08		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	6/1/21 09:41	6/1/21 10:34		1	174	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	5/28/21 12:00	6/2/21 09:55		1	544	mg/L		50	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-14V DUP

Location Code: WMWBARAP
Collected: 5/25/21 09:56
Customer ID:
Submittal Date: 5/26/21 13:34

Laboratory ID Number: BB09701

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	6/1/21 09:41	6/1/21 10:34		1	174	mg/L			
Carbonate Alkalinity, (calc.)	6/1/21 09:41	6/1/21 10:34		1	0.16	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	6/3/21 14:52	6/3/21 14:52		25	209	mg/L	12.50	25	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/4/21 10:27	6/4/21 10:27		1	0.387	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/8/21 14:21	6/8/21 14:21		1	38.4	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	5/25/21 09:53	5/25/21 09:53			943.96	uS/cm			FA
pH	5/25/21 09:53	5/25/21 09:53			7.20	SU			FA
Temperature	5/25/21 09:53	5/25/21 09:53			21.13	C			FA
Turbidity	5/25/21 09:53	5/25/21 09:53			2.56	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/21 09:56

Customer ID:

Delivery Date: 5/26/21 13:34

Description: Barry Ash Pond - MW-14V DUP

Laboratory ID Number: BB09701

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB09704	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.127	20.0
BB09704	Magnesium, Total	mg/L	0.00959	0.0462	5.00	5.98	5.99	5.30	4.25 to 5.75	106	70.0 to 130	0.151	20.0
BB09704	Arsenic, Total	mg/L	0.000017	0.000147	0.10	0.102	0.104	0.105	0.0850 to 0.115	102	70.0 to 130	1.41	20.0
BB09704	Iron, Total	mg/L	0.00281	0.0176	0.2	0.244	0.242	0.209	0.170 to 0.230	105	70.0 to 130	0.767	20.0
BB09708	Iron, Dissolved	mg/L	0.000128	0.0176	0.2	112	111	0.206	0.170 to 0.230	404	70.0 to 130	1.48	20.0
BB09704	Chromium, Total	mg/L	-0.000051	0.000440	0.10	0.101	0.101	0.100	0.0850 to 0.115	99.5	70.0 to 130	0.497	20.0
BB09704	Sodium, Total	mg/L	0.00822	0.0660	5.00	10.6	10.6	5.07	4.25 to 5.75	106	70.0 to 130	0.0554	20.0
BB09704	Thallium, Total	mg/L	-0.0000034	0.000147	0.10	0.107	0.108	0.101	0.0850 to 0.115	107	70.0 to 130	1.01	20.0
BB09704	Beryllium, Total	mg/L	-0.0000003	0.000880	0.10	0.0940	0.0895	0.0971	0.0850 to 0.115	94.0	70.0 to 130	4.89	20.0
BB09704	Calcium, Total	mg/L	0.0919	0.152	5.00	6.25	6.22	5.34	4.25 to 5.75	107	70.0 to 130	0.479	20.0
BB09704	Cobalt, Total	mg/L	-0.0000003	0.000147	0.10	0.101	0.102	0.100	0.0850 to 0.115	99.7	70.0 to 130	0.787	20.0
BB09704	Lead, Total	mg/L	0.0000053	0.000147	0.10	0.107	0.114	0.102	0.0850 to 0.115	107	70.0 to 130	6.56	20.0
BB09707	Mercury, Total by CVAA	mg/L	0.0000889	0.000500	0.004	0.00397	0.00394	0.00400	0.00340 to 0.00460	99.3	70.0 to 130	0.738	20.0
BB09704	Barium, Total	mg/L	-0.0000322	0.000200	0.10	0.136	0.141	0.112	0.0850 to 0.115	115	70.0 to 130	3.52	20.0
BB09704	Boron, Total	mg/L	0.0120	0.0650	1.00	1.02	1.02	1.01	0.850 to 1.15	102	70.0 to 130	0.139	20.0
BB09704	Potassium, Total	mg/L	-0.0123	0.367	10.0	10.1	10.3	9.57	8.50 to 11.5	93.0	70.0 to 130	1.49	20.0
BB09704	Lithium, Total	mg/L	0.000134	0.0154	0.20	0.205	0.205	0.200	0.170 to 0.230	103	70.0 to 130	0.0492	20.0
BB09704	Antimony, Total	mg/L	0.0000982	0.00100	0.10	0.106	0.109	0.107	0.0850 to 0.115	106	70.0 to 130	2.70	20.0
BB09704	Manganese, Total	mg/L	-0.0000182	0.000147	0.10	0.103	0.105	0.102	0.0850 to 0.115	99.5	70.0 to 130	1.99	20.0
BB09704	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.0957	0.0973	0.0987	0.0850 to 0.115	95.6	70.0 to 130	1.62	20.0
BB09704	Selenium, Total	mg/L	0.0000053	0.00100	0.10	0.0965	0.0960	0.0996	0.0850 to 0.115	96.5	70.0 to 130	0.513	20.0
BB09708	Manganese, Dissolved	mg/L	0.0000447	0.000147	0.10	0.320	0.312	0.107	0.0850 to 0.115	105	70.0 to 130	2.61	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/21 09:56

Customer ID:

Delivery Date: 5/26/21 13:34

Description: Barry Ash Pond - MW-14V DUP

Laboratory ID Number: BB09701

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BB09706	Solids, Dissolved	mg/L	1.00	25.0			323	53.0	40.0 to 60.0			1.82	5.00
BB09706	Chloride	mg/L	-0.0571	1.00	250	435	176	10.1	9.00 to 11.0	102	80.0 to 120	2.25	20.0
BB09706	Fluoride	mg/L	0.0172	0.100	2.50	2.68	0.0506	2.64	2.25 to 2.75	107	80.0 to 120	0.00	20.0
BB09706	Sulfate	mg/L	-0.276	1.00	20.0	21.5	1.36	20.1	18.0 to 22.0	102	80.0 to 120	13.3	20.0
BB09708	Alkalinity, Total as CaCO3	mg/L					296	52.8	45.0 to 55.0			1.01	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-14

Location Code: WMWBARAP
Collected: 5/25/21 10:59
Customer ID:
Submittal Date: 5/26/21 13:34

Laboratory ID Number: BB09702

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	6/1/21 09:55	6/4/21 11:53		1.015	0.0740	mg/L	0.030000	0.1015	J
* Calcium, Total	6/1/21 09:55	6/4/21 11:53		1.015	11.2	mg/L	0.070035	0.406	
* Iron, Total	6/1/21 09:55	6/4/21 17:08		50.75	33.1	mg/L	0.40600	2.03	
* Lithium, Total	6/1/21 09:55	6/4/21 11:53		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/1/21 09:55	6/4/21 11:53		1.015	6.80	mg/L	0.021315	0.406	
* Sodium, Total	6/1/21 09:55	6/4/21 17:08		50.75	80.6	mg/L	1.5225	20.3	
Analytical Method: EPA 200.7			Analyst: RDA						
* Iron, Dissolved	6/1/21 06:55	6/2/21 15:52		101.5	32.8	mg/L	0.8120	4.06	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	6/1/21 09:55	6/2/21 16:41		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	6/1/21 09:55	6/2/21 16:41		1.015	0.0172	mg/L	0.000068	0.000203	
* Barium, Total	6/1/21 09:55	6/2/21 16:41		1.015	0.0745	mg/L	0.000101	0.000203	
* Beryllium, Total	6/1/21 09:55	6/2/21 16:41		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/21 09:55	6/2/21 16:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/21 09:55	6/2/21 16:41		1.015	0.00365	mg/L	0.000203	0.001015	
* Cobalt, Total	6/1/21 09:55	6/2/21 16:41		1.015	0.00124	mg/L	0.000068	0.000203	
* Lead, Total	6/1/21 09:55	6/2/21 16:41		1.015	0.0000764	mg/L	0.000068	0.000203	J
* Molybdenum, Total	6/1/21 09:55	6/2/21 16:41		1.015	0.000701	mg/L	0.000068	0.000203	
* Potassium, Total	6/1/21 09:55	6/2/21 16:41		1.015	2.31	mg/L	0.169505	0.5075	
* Manganese, Total	6/1/21 09:55	6/2/21 16:41		1.015	0.276	mg/L	0.000068	0.000203	
* Selenium, Total	6/1/21 09:55	6/2/21 16:41		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	6/1/21 09:55	6/2/21 16:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8			Analyst: DLJ						
* Manganese, Dissolved	6/1/21 06:55	6/1/21 12:35		1.015	0.284	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	6/4/21 09:30	6/7/21 14:10		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B			Analyst: JAG						
Alkalinity, Total as CaCO3	6/1/21 09:41	6/1/21 10:34		1	195	mg/L		0.1	
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	5/28/21 12:00	6/2/21 09:55		1	318	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-14

Location Code: WMWBARAP
Collected: 5/25/21 10:59
Customer ID:
Submittal Date: 5/26/21 13:34

Laboratory ID Number: BB09702

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	6/1/21 09:41	6/1/21 10:34		1	195	mg/L			
Carbonate Alkalinity, (calc.)	6/1/21 09:41	6/1/21 10:34		1	0.03	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	6/3/21 14:53	6/3/21 14:53		5	52.1	mg/L	2.50	5	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/4/21 10:28	6/4/21 10:28		1	0.0957	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/8/21 14:29	6/8/21 14:29		3	59.2	mg/L	1.50	3	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	5/25/21 10:56	5/25/21 10:56			486.80	uS/cm			FA
pH	5/25/21 10:56	5/25/21 10:56			5.82	SU			FA
Temperature	5/25/21 10:56	5/25/21 10:56			20.14	C			FA
Turbidity	5/25/21 10:56	5/25/21 10:56			2.79	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/21 10:59

Customer ID:

Delivery Date: 5/26/21 13:34

Description: Barry Ash Pond - MW-14

Laboratory ID Number: BB09702

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB09704	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.127	20.0
BB09704	Magnesium, Total	mg/L	0.00959	0.0462	5.00	5.98	5.99	5.30	4.25 to 5.75	106	70.0 to 130	0.151	20.0
BB09704	Chromium, Total	mg/L	-0.000051	0.000440	0.10	0.101	0.101	0.100	0.0850 to 0.115	99.5	70.0 to 130	0.497	20.0
BB09704	Sodium, Total	mg/L	0.00822	0.0660	5.00	10.6	10.6	5.07	4.25 to 5.75	106	70.0 to 130	0.0554	20.0
BB09704	Thallium, Total	mg/L	-0.0000034	0.000147	0.10	0.107	0.108	0.101	0.0850 to 0.115	107	70.0 to 130	1.01	20.0
BB09704	Beryllium, Total	mg/L	-0.0000003	0.000880	0.10	0.0940	0.0895	0.0971	0.0850 to 0.115	94.0	70.0 to 130	4.89	20.0
BB09704	Calcium, Total	mg/L	0.0919	0.152	5.00	6.25	6.22	5.34	4.25 to 5.75	107	70.0 to 130	0.479	20.0
BB09704	Cobalt, Total	mg/L	-0.0000003	0.000147	0.10	0.101	0.102	0.100	0.0850 to 0.115	99.7	70.0 to 130	0.787	20.0
BB09704	Lead, Total	mg/L	0.0000053	0.000147	0.10	0.107	0.114	0.102	0.0850 to 0.115	107	70.0 to 130	6.56	20.0
BB09707	Mercury, Total by CVAA	mg/L	0.0000889	0.000500	0.004	0.00397	0.00394	0.00400	0.00340 to 0.00460	99.3	70.0 to 130	0.738	20.0
BB09704	Arsenic, Total	mg/L	0.000017	0.000147	0.10	0.102	0.104	0.105	0.0850 to 0.115	102	70.0 to 130	1.41	20.0
BB09704	Iron, Total	mg/L	0.00281	0.0176	0.2	0.244	0.242	0.209	0.170 to 0.230	105	70.0 to 130	0.767	20.0
BB09708	Iron, Dissolved	mg/L	0.000128	0.0176	0.2	112	111	0.206	0.170 to 0.230	404	70.0 to 130	1.48	20.0
BB09704	Manganese, Total	mg/L	-0.0000182	0.000147	0.10	0.103	0.105	0.102	0.0850 to 0.115	99.5	70.0 to 130	1.99	20.0
BB09704	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.0957	0.0973	0.0987	0.0850 to 0.115	95.6	70.0 to 130	1.62	20.0
BB09704	Selenium, Total	mg/L	0.0000053	0.00100	0.10	0.0965	0.0960	0.0996	0.0850 to 0.115	96.5	70.0 to 130	0.513	20.0
BB09708	Manganese, Dissolved	mg/L	0.0000447	0.000147	0.10	0.320	0.312	0.107	0.0850 to 0.115	105	70.0 to 130	2.61	20.0
BB09704	Barium, Total	mg/L	-0.0000322	0.000200	0.10	0.136	0.141	0.112	0.0850 to 0.115	115	70.0 to 130	3.52	20.0
BB09704	Boron, Total	mg/L	0.0120	0.0650	1.00	1.02	1.02	1.01	0.850 to 1.15	102	70.0 to 130	0.139	20.0
BB09704	Potassium, Total	mg/L	-0.0123	0.367	10.0	10.1	10.3	9.57	8.50 to 11.5	93.0	70.0 to 130	1.49	20.0
BB09704	Lithium, Total	mg/L	0.000134	0.0154	0.20	0.205	0.205	0.200	0.170 to 0.230	103	70.0 to 130	0.0492	20.0
BB09704	Antimony, Total	mg/L	0.0000982	0.00100	0.10	0.106	0.109	0.107	0.0850 to 0.115	106	70.0 to 130	2.70	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/21 10:59

Customer ID:

Delivery Date: 5/26/21 13:34

Description: Barry Ash Pond - MW-14

Laboratory ID Number: BB09702

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BB09706	Solids, Dissolved	mg/L	1.00	25.0			323	53.0	40.0 to 60.0			1.82	5.00
BB09706	Chloride	mg/L	-0.0571	1.00	250	435	176	10.1	9.00 to 11.0	102	80.0 to 120	2.25	20.0
BB09706	Fluoride	mg/L	0.0172	0.100	2.50	2.68	0.0506	2.64	2.25 to 2.75	107	80.0 to 120	0.00	20.0
BB09706	Sulfate	mg/L	-0.276	1.00	20.0	21.5	1.36	20.1	18.0 to 22.0	102	80.0 to 120	13.3	20.0
BB09708	Alkalinity, Total as CaCO3	mg/L					296	52.8	45.0 to 55.0			1.01	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-25V

Location Code: WMWBARAP
Collected: 5/24/21 13:38
Customer ID:
Submittal Date: 5/26/21 13:35

Laboratory ID Number: BB09703

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	6/1/21 09:55	6/4/21 11:57		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	6/1/21 09:55	6/4/21 11:57		1.015	0.554	mg/L	0.070035	0.406	
* Iron, Total	6/1/21 09:55	6/4/21 11:57		1.015	0.0819	mg/L	0.008120	0.0406	
* Lithium, Total	6/1/21 09:55	6/4/21 11:57		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/1/21 09:55	6/4/21 11:57		1.015	0.315	mg/L	0.021315	0.406	J
* Sodium, Total	6/1/21 09:55	6/4/21 11:57		1.015	5.28	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Iron, Dissolved	6/1/21 06:55	6/2/21 13:18		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	6/1/21 09:55	6/2/21 16:44		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	6/1/21 09:55	6/2/21 16:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	6/1/21 09:55	6/2/21 16:44		1.015	0.00981	mg/L	0.000101	0.000203	
* Beryllium, Total	6/1/21 09:55	6/2/21 16:44		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/21 09:55	6/2/21 16:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/21 09:55	6/2/21 16:44		1.015	0.00119	mg/L	0.000203	0.001015	
* Cobalt, Total	6/1/21 09:55	6/2/21 16:44		1.015	0.000422	mg/L	0.000068	0.000203	
* Lead, Total	6/1/21 09:55	6/2/21 16:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	6/1/21 09:55	6/2/21 16:44		1.015	0.0000923	mg/L	0.000068	0.000203	J
* Potassium, Total	6/1/21 09:55	6/2/21 16:44		1.015	0.662	mg/L	0.169505	0.5075	
* Manganese, Total	6/1/21 09:55	6/2/21 16:44		1.015	0.00586	mg/L	0.000068	0.000203	
* Selenium, Total	6/1/21 09:55	6/2/21 16:44		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	6/1/21 09:55	6/2/21 16:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Manganese, Dissolved	6/1/21 06:55	6/1/21 12:39		1.015	0.00619	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB			Preparation Method: EPA 1638				
* Mercury, Total by CVAA	6/4/21 09:30	6/7/21 14:12		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG			Preparation Method: EPA 1638				
Alkalinity, Total as CaCO3	6/1/21 09:41	6/1/21 10:34		1	2.72	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW			Preparation Method: EPA 1638				
* Solids, Dissolved	5/28/21 12:00	6/2/21 09:55		1	26.7	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-25V

Location Code: WMWBARAP
Collected: 5/24/21 13:38
Customer ID:
Submittal Date: 5/26/21 13:35

Laboratory ID Number: BB09703

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	6/1/21 09:41	6/1/21 10:34		1	2.72	mg/L			
Carbonate Alkalinity, (calc.)	6/1/21 09:41	6/1/21 10:34		1	0.00	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	6/3/21 14:54	6/3/21 14:54		1	3.48	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/4/21 10:30	6/4/21 10:30		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/8/21 14:24	6/8/21 14:24		1	2.59	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	5/24/21 13:34	5/24/21 13:34			30.82	uS/cm			FA
pH	5/24/21 13:34	5/24/21 13:34			5.24	SU			FA
Temperature	5/24/21 13:34	5/24/21 13:34			22.44	C			FA
Turbidity	5/24/21 13:34	5/24/21 13:34			2.03	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/21 13:38

Customer ID:

Delivery Date: 5/26/21 13:35

Description: Barry Ash Pond - MW-25V

Laboratory ID Number: BB09703

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB09704	Chromium, Total	mg/L	-0.000051	0.000440	0.10	0.101	0.101	0.100	0.0850 to 0.115	99.5	70.0 to 130	0.497	20.0
BB09704	Sodium, Total	mg/L	0.00822	0.0660	5.00	10.6	10.6	5.07	4.25 to 5.75	106	70.0 to 130	0.0554	20.0
BB09704	Thallium, Total	mg/L	-0.0000034	0.000147	0.10	0.107	0.108	0.101	0.0850 to 0.115	107	70.0 to 130	1.01	20.0
BB09704	Barium, Total	mg/L	-0.0000322	0.000200	0.10	0.136	0.141	0.112	0.0850 to 0.115	115	70.0 to 130	3.52	20.0
BB09704	Boron, Total	mg/L	0.0120	0.0650	1.00	1.02	1.02	1.01	0.850 to 1.15	102	70.0 to 130	0.139	20.0
BB09704	Potassium, Total	mg/L	-0.0123	0.367	10.0	10.1	10.3	9.57	8.50 to 11.5	93.0	70.0 to 130	1.49	20.0
BB09704	Lithium, Total	mg/L	0.000134	0.0154	0.20	0.205	0.205	0.200	0.170 to 0.230	103	70.0 to 130	0.0492	20.0
BB09704	Antimony, Total	mg/L	0.0000982	0.00100	0.10	0.106	0.109	0.107	0.0850 to 0.115	106	70.0 to 130	2.70	20.0
BB09704	Arsenic, Total	mg/L	0.000017	0.000147	0.10	0.102	0.104	0.105	0.0850 to 0.115	102	70.0 to 130	1.41	20.0
BB09704	Iron, Total	mg/L	0.00281	0.0176	0.2	0.244	0.242	0.209	0.170 to 0.230	105	70.0 to 130	0.767	20.0
BB09708	Iron, Dissolved	mg/L	0.000128	0.0176	0.2	112	111	0.206	0.170 to 0.230	404	70.0 to 130	1.48	20.0
BB09704	Beryllium, Total	mg/L	-0.0000003	0.000880	0.10	0.0940	0.0895	0.0971	0.0850 to 0.115	94.0	70.0 to 130	4.89	20.0
BB09704	Calcium, Total	mg/L	0.0919	0.152	5.00	6.25	6.22	5.34	4.25 to 5.75	107	70.0 to 130	0.479	20.0
BB09704	Cobalt, Total	mg/L	-0.0000003	0.000147	0.10	0.101	0.102	0.100	0.0850 to 0.115	99.7	70.0 to 130	0.787	20.0
BB09704	Lead, Total	mg/L	0.0000053	0.000147	0.10	0.107	0.114	0.102	0.0850 to 0.115	107	70.0 to 130	6.56	20.0
BB09707	Mercury, Total by CVAA	mg/L	0.0000889	0.000500	0.004	0.00397	0.00394	0.00400	0.00340 to 0.00460	99.3	70.0 to 130	0.738	20.0
BB09704	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.127	20.0
BB09704	Magnesium, Total	mg/L	0.00959	0.0462	5.00	5.98	5.99	5.30	4.25 to 5.75	106	70.0 to 130	0.151	20.0
BB09704	Manganese, Total	mg/L	-0.0000182	0.000147	0.10	0.103	0.105	0.102	0.0850 to 0.115	99.5	70.0 to 130	1.99	20.0
BB09704	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.0957	0.0973	0.0987	0.0850 to 0.115	95.6	70.0 to 130	1.62	20.0
BB09704	Selenium, Total	mg/L	0.0000053	0.00100	0.10	0.0965	0.0960	0.0996	0.0850 to 0.115	96.5	70.0 to 130	0.513	20.0
BB09708	Manganese, Dissolved	mg/L	0.0000447	0.000147	0.10	0.320	0.312	0.107	0.0850 to 0.115	105	70.0 to 130	2.61	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/21 13:38

Customer ID:

Delivery Date: 5/26/21 13:35

Description: Barry Ash Pond - MW-25V

Laboratory ID Number: BB09703

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BB09706	Solids, Dissolved	mg/L	1.00	25.0			323	53.0	40.0 to 60.0			1.82	5.00
BB09706	Fluoride	mg/L	0.0172	0.100	2.50	2.68	0.0506	2.64	2.25 to 2.75	107	80.0 to 120	0.00	20.0
BB09706	Chloride	mg/L	-0.0571	1.00	250	435	176	10.1	9.00 to 11.0	102	80.0 to 120	2.25	20.0
BB09706	Sulfate	mg/L	-0.276	1.00	20.0	21.5	1.36	20.1	18.0 to 22.0	102	80.0 to 120	13.3	20.0
BB09708	Alkalinity, Total as CaCO3	mg/L					296	52.8	45.0 to 55.0			1.01	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-25H

Location Code: WMWBARAP
Collected: 5/24/21 14:30
Customer ID:
Submittal Date: 5/26/21 13:35

Laboratory ID Number: BB09704

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	6/1/21 09:55	6/4/21 12:00		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	6/1/21 09:55	6/4/21 12:00		1.015	0.905	mg/L	0.070035	0.406	
* Iron, Total	6/1/21 09:55	6/4/21 12:00		1.015	0.0346	mg/L	0.008120	0.0406	J
* Lithium, Total	6/1/21 09:55	6/4/21 12:00		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/1/21 09:55	6/4/21 12:00		1.015	0.686	mg/L	0.021315	0.406	
* Sodium, Total	6/1/21 09:55	6/4/21 12:00		1.015	5.32	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA						
* Iron, Dissolved	6/1/21 06:55	6/2/21 13:22		1.015	0.0238	mg/L	0.008120	0.0406	J
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	6/1/21 09:55	6/2/21 16:48		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	6/1/21 09:55	6/2/21 16:48		1.015	0.0000873	mg/L	0.000068	0.000203	J
* Barium, Total	6/1/21 09:55	6/2/21 16:48		1.015	0.0206	mg/L	0.000101	0.000203	
* Beryllium, Total	6/1/21 09:55	6/2/21 16:48		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/21 09:55	6/2/21 16:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/21 09:55	6/2/21 16:48		1.015	0.00117	mg/L	0.000203	0.001015	
* Cobalt, Total	6/1/21 09:55	6/2/21 16:48		1.015	0.00156	mg/L	0.000068	0.000203	
* Lead, Total	6/1/21 09:55	6/2/21 16:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	6/1/21 09:55	6/2/21 16:48		1.015	0.000102	mg/L	0.000068	0.000203	J
* Potassium, Total	6/1/21 09:55	6/2/21 16:48		1.015	0.839	mg/L	0.169505	0.5075	
* Manganese, Total	6/1/21 09:55	6/2/21 16:48		1.015	0.00384	mg/L	0.000068	0.000203	
* Selenium, Total	6/1/21 09:55	6/2/21 16:48		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	6/1/21 09:55	6/2/21 16:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8			Analyst: DLJ						
* Manganese, Dissolved	6/1/21 06:55	6/1/21 12:42		1.015	0.00395	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	6/4/21 09:30	6/7/21 14:15		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B			Analyst: JAG						
Alkalinity, Total as CaCO3	6/1/21 09:41	6/1/21 10:34		1	3.80	mg/L		0.1	
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	5/28/21 12:00	6/2/21 09:55		1	39.3	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-25H

Location Code: WMWBARAP
Collected: 5/24/21 14:30
Customer ID:
Submittal Date: 5/26/21 13:35

Laboratory ID Number: BB09704

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	6/1/21 09:41	6/1/21 10:34		1	3.80	mg/L			
Carbonate Alkalinity, (calc.)	6/1/21 09:41	6/1/21 10:34		1	0.00	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	6/3/21 14:55	6/3/21 14:55		1	4.72	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/4/21 10:31	6/4/21 10:31		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/8/21 14:25	6/8/21 14:25		1	4.94	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	5/24/21 14:27	5/24/21 14:27			39.54	uS/cm			FA
pH	5/24/21 14:27	5/24/21 14:27			4.12	SU			FA
Temperature	5/24/21 14:27	5/24/21 14:27			22.58	C			FA
Turbidity	5/24/21 14:27	5/24/21 14:27			0.74	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 5/24/21 14:30
Customer ID:
Delivery Date: 5/26/21 13:35

Description: Barry Ash Pond - MW-25H

Laboratory ID Number: BB09704

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB09704	Chromium, Total	mg/L	-0.000051	0.000440	0.10	0.101	0.101	0.100	0.0850 to 0.115	99.5	70.0 to 130	0.497	20.0
BB09704	Sodium, Total	mg/L	0.00822	0.0660	5.00	10.6	10.6	5.07	4.25 to 5.75	106	70.0 to 130	0.0554	20.0
BB09704	Thallium, Total	mg/L	-0.0000034	0.000147	0.10	0.107	0.108	0.101	0.0850 to 0.115	107	70.0 to 130	1.01	20.0
BB09704	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.127	20.0
BB09704	Magnesium, Total	mg/L	0.00959	0.0462	5.00	5.98	5.99	5.30	4.25 to 5.75	106	70.0 to 130	0.151	20.0
BB09704	Arsenic, Total	mg/L	0.000017	0.000147	0.10	0.102	0.104	0.105	0.0850 to 0.115	102	70.0 to 130	1.41	20.0
BB09704	Iron, Total	mg/L	0.00281	0.0176	0.2	0.244	0.242	0.209	0.170 to 0.230	105	70.0 to 130	0.767	20.0
BB09708	Iron, Dissolved	mg/L	0.000128	0.0176	0.2	112	111	0.206	0.170 to 0.230	404	70.0 to 130	1.48	20.0
BB09704	Beryllium, Total	mg/L	-0.0000003	0.000880	0.10	0.0940	0.0895	0.0971	0.0850 to 0.115	94.0	70.0 to 130	4.89	20.0
BB09704	Calcium, Total	mg/L	0.0919	0.152	5.00	6.25	6.22	5.34	4.25 to 5.75	107	70.0 to 130	0.479	20.0
BB09704	Cobalt, Total	mg/L	-0.0000003	0.000147	0.10	0.101	0.102	0.100	0.0850 to 0.115	99.7	70.0 to 130	0.787	20.0
BB09704	Lead, Total	mg/L	0.0000053	0.000147	0.10	0.107	0.114	0.102	0.0850 to 0.115	107	70.0 to 130	6.56	20.0
BB09707	Mercury, Total by CVAA	mg/L	0.0000889	0.000500	0.004	0.00397	0.00394	0.00400	0.00340 to 0.00460	99.3	70.0 to 130	0.738	20.0
BB09704	Barium, Total	mg/L	-0.0000322	0.000200	0.10	0.136	0.141	0.112	0.0850 to 0.115	115	70.0 to 130	3.52	20.0
BB09704	Boron, Total	mg/L	0.0120	0.0650	1.00	1.02	1.02	1.01	0.850 to 1.15	102	70.0 to 130	0.139	20.0
BB09704	Potassium, Total	mg/L	-0.0123	0.367	10.0	10.1	10.3	9.57	8.50 to 11.5	93.0	70.0 to 130	1.49	20.0
BB09704	Lithium, Total	mg/L	0.000134	0.0154	0.20	0.205	0.205	0.200	0.170 to 0.230	103	70.0 to 130	0.0492	20.0
BB09704	Antimony, Total	mg/L	0.0000982	0.00100	0.10	0.106	0.109	0.107	0.0850 to 0.115	106	70.0 to 130	2.70	20.0
BB09704	Manganese, Total	mg/L	-0.0000182	0.000147	0.10	0.103	0.105	0.102	0.0850 to 0.115	99.5	70.0 to 130	1.99	20.0
BB09704	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.0957	0.0973	0.0987	0.0850 to 0.115	95.6	70.0 to 130	1.62	20.0
BB09704	Selenium, Total	mg/L	0.0000053	0.00100	0.10	0.0965	0.0960	0.0996	0.0850 to 0.115	96.5	70.0 to 130	0.513	20.0
BB09708	Manganese, Dissolved	mg/L	0.0000447	0.000147	0.10	0.320	0.312	0.107	0.0850 to 0.115	105	70.0 to 130	2.61	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/21 14:30

Customer ID:

Delivery Date: 5/26/21 13:35

Description: Barry Ash Pond - MW-25H

Laboratory ID Number: BB09704

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BB09706	Solids, Dissolved	mg/L	1.00	25.0			323	53.0	40.0 to 60.0			1.82	5.00
BB09706	Chloride	mg/L	-0.0571	1.00	250	435	176	10.1	9.00 to 11.0	102	80.0 to 120	2.25	20.0
BB09706	Fluoride	mg/L	0.0172	0.100	2.50	2.68	0.0506	2.64	2.25 to 2.75	107	80.0 to 120	0.00	20.0
BB09706	Sulfate	mg/L	-0.276	1.00	20.0	21.5	1.36	20.1	18.0 to 22.0	102	80.0 to 120	13.3	20.0
BB09708	Alkalinity, Total as CaCO3	mg/L					296	52.8	45.0 to 55.0			1.01	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-25H DUP

Location Code: WMWBARAP
Collected: 5/24/21 14:30
Customer ID:
Submittal Date: 5/26/21 13:35

Laboratory ID Number: BB09705

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	6/1/21 09:55	6/4/21 14:26		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	6/1/21 09:55	6/4/21 14:26		1.015	0.899	mg/L	0.070035	0.406	
* Iron, Total	6/1/21 09:55	6/4/21 14:26		1.015	0.0368	mg/L	0.008120	0.0406	J
* Lithium, Total	6/1/21 09:55	6/4/21 14:26		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/1/21 09:55	6/4/21 14:26		1.015	0.675	mg/L	0.021315	0.406	
* Sodium, Total	6/1/21 09:55	6/4/21 14:26		1.015	5.26	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	6/1/21 06:55	6/2/21 13:25		1.015	0.0244	mg/L	0.008120	0.0406	J
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	6/1/21 09:55	6/2/21 17:17		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	6/1/21 09:55	6/2/21 17:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	6/1/21 09:55	6/2/21 17:17		1.015	0.0195	mg/L	0.000101	0.000203	
* Beryllium, Total	6/1/21 09:55	6/2/21 17:17		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/21 09:55	6/2/21 17:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/21 09:55	6/2/21 17:17		1.015	0.00105	mg/L	0.000203	0.001015	
* Cobalt, Total	6/1/21 09:55	6/2/21 17:17		1.015	0.00158	mg/L	0.000068	0.000203	
* Lead, Total	6/1/21 09:55	6/2/21 17:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	6/1/21 09:55	6/2/21 17:17		1.015	0.0000894	mg/L	0.000068	0.000203	J
* Potassium, Total	6/1/21 09:55	6/2/21 17:17		1.015	0.861	mg/L	0.169505	0.5075	
* Manganese, Total	6/1/21 09:55	6/2/21 17:17		1.015	0.00389	mg/L	0.000068	0.000203	
* Selenium, Total	6/1/21 09:55	6/2/21 17:17		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	6/1/21 09:55	6/2/21 17:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	6/1/21 06:55	6/1/21 12:46		1.015	0.00393	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	6/4/21 09:30	6/7/21 14:17		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	6/1/21 09:41	6/1/21 10:34		1	4.02	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	5/28/21 12:00	6/2/21 09:55		1	36.0	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-25H DUP

Location Code: WMWBARAP
Collected: 5/24/21 14:30
Customer ID:
Submittal Date: 5/26/21 13:35

Laboratory ID Number: BB09705

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	6/1/21 09:41	6/1/21 10:34		1	4.02	mg/L			
Carbonate Alkalinity, (calc.)	6/1/21 09:41	6/1/21 10:34		1	0.00	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	6/3/21 14:56	6/3/21 14:56		1	4.82	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/4/21 10:32	6/4/21 10:32		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/8/21 14:26	6/8/21 14:26		1	4.93	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	5/24/21 14:27	5/24/21 14:27			39.54	uS/cm			FA
pH	5/24/21 14:27	5/24/21 14:27			4.12	SU			FA
Temperature	5/24/21 14:27	5/24/21 14:27			22.58	C			FA
Turbidity	5/24/21 14:27	5/24/21 14:27			0.74	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 5/24/21 14:30
Customer ID:
Delivery Date: 5/26/21 13:35

Description: Barry Ash Pond - MW-25H DUP

Laboratory ID Number: BB09705

Sample	Analysis	Units	MB				Standard		Rec		Prec	Limit	
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec			Limit
BB09709	Selenium, Total	mg/L	-0.0000192	0.00100	0.10	0.0994	0.0969	0.0973	0.0850 to 0.115	99.4	70.0 to 130	2.59	20.0
BB09709	Molybdenum, Total	mg/L	0.0000038	0.000147	0.10	0.102	0.0999	0.105	0.0850 to 0.115	102	70.0 to 130	2.12	20.0
BB09709	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.104	0.104	0.110	0.0850 to 0.115	104	70.0 to 130	0.137	20.0
BB09709	Cobalt, Total	mg/L	-0.000001	0.000147	0.10	0.101	0.103	0.102	0.0850 to 0.115	101	70.0 to 130	1.50	20.0
BB09709	Beryllium, Total	mg/L	0.0000153	0.000880	0.10	0.0869	0.0853	0.0901	0.0850 to 0.115	86.9	70.0 to 130	1.85	20.0
BB09709	Magnesium, Total	mg/L	0.00151	0.0462	5.00	5.22	5.18	5.31	4.25 to 5.75	104	70.0 to 130	0.618	20.0
BB09709	Thallium, Total	mg/L	-0.0000023	0.000147	0.10	0.103	0.101	0.102	0.0850 to 0.115	103	70.0 to 130	2.08	20.0
BB09708	Iron, Dissolved	mg/L	0.000128	0.0176	0.2	112	111	0.206	0.170 to 0.230	404	70.0 to 130	1.48	20.0
BB09709	Iron, Total	mg/L	0.000601	0.0176	0.2	0.201	0.201	0.207	0.170 to 0.230	101	70.0 to 130	0.0602	20.0
BB09709	Lead, Total	mg/L	0.0000066	0.000147	0.10	0.105	0.103	0.107	0.0850 to 0.115	105	70.0 to 130	2.72	20.0
BB09709	Sodium, Total	mg/L	0.000673	0.0660	5.00	4.99	5.05	5.04	4.25 to 5.75	99.9	70.0 to 130	1.09	20.0
BB09709	Antimony, Total	mg/L	0.000121	0.00100	0.10	0.109	0.103	0.110	0.0850 to 0.115	109	70.0 to 130	5.46	20.0
BB09708	Manganese, Dissolved	mg/L	0.0000447	0.000147	0.10	0.320	0.312	0.107	0.0850 to 0.115	105	70.0 to 130	2.61	20.0
BB09709	Boron, Total	mg/L	0.00648	0.0650	1.00	0.997	1.01	1.02	0.850 to 1.15	99.7	70.0 to 130	1.57	20.0
BB09709	Calcium, Total	mg/L	0.00407	0.152	5.00	5.20	5.16	5.36	4.25 to 5.75	104	70.0 to 130	0.634	20.0
BB09709	Chromium, Total	mg/L	-0.0000349	0.000440	0.10	0.102	0.102	0.103	0.0850 to 0.115	102	70.0 to 130	0.320	20.0
BB09709	Manganese, Total	mg/L	-0.0000172	0.000147	0.10	0.101	0.102	0.103	0.0850 to 0.115	101	70.0 to 130	0.538	20.0
BB09707	Mercury, Total by CVAA	mg/L	0.0000889	0.000500	0.004	0.00397	0.00394	0.00400	0.00340 to 0.00460	99.3	70.0 to 130	0.738	20.0
BB09709	Arsenic, Total	mg/L	-0.0000727	0.000147	0.10	0.101	0.0991	0.0970	0.0850 to 0.115	101	70.0 to 130	1.86	20.0
BB09709	Barium, Total	mg/L	-0.0000235	0.000200	0.10	0.119	0.111	0.112	0.0850 to 0.115	119	70.0 to 130	6.86	20.0
BB09709	Potassium, Total	mg/L	-0.0170	0.367	10.0	9.33	9.69	9.54	8.50 to 11.5	93.3	70.0 to 130	3.82	20.0
BB09709	Lithium, Total	mg/L	0.0000545	0.0154	0.20	0.195	0.197	0.198	0.170 to 0.230	97.5	70.0 to 130	0.870	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/21 14:30

Customer ID:

Delivery Date: 5/26/21 13:35

Description: Barry Ash Pond - MW-25H DUP

Laboratory ID Number: BB09705

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BB09706	Solids, Dissolved	mg/L	1.00	25.0			323	53.0	40.0 to 60.0			1.82	5.00
BB09706	Fluoride	mg/L	0.0172	0.100	2.50	2.68	0.0506	2.64	2.25 to 2.75	107	80.0 to 120	0.00	20.0
BB09706	Chloride	mg/L	-0.0571	1.00	250	435	176	10.1	9.00 to 11.0	102	80.0 to 120	2.25	20.0
BB09706	Sulfate	mg/L	-0.276	1.00	20.0	21.5	1.36	20.1	18.0 to 22.0	102	80.0 to 120	13.3	20.0
BB09708	Alkalinity, Total as CaCO3	mg/L					296	52.8	45.0 to 55.0			1.01	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-15V

Location Code: WMWBARAP
Collected: 5/25/21 08:55
Customer ID:
Submittal Date: 5/26/21 13:35

Laboratory ID Number: BB09706

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	6/1/21 09:55	6/4/21 14:30		1.015	0.0617	mg/L	0.030000	0.1015	J
* Calcium, Total	6/1/21 09:55	6/4/21 14:30		1.015	8.47	mg/L	0.070035	0.406	
* Iron, Total	6/1/21 09:55	6/4/21 17:19		50.75	50.5	mg/L	0.40600	2.03	
* Lithium, Total	6/1/21 09:55	6/4/21 14:30		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/1/21 09:55	6/4/21 14:30		1.015	5.47	mg/L	0.021315	0.406	
* Sodium, Total	6/1/21 09:55	6/4/21 17:19		50.75	69.1	mg/L	1.5225	20.3	
Analytical Method: EPA 200.7			Analyst: RDA						
* Iron, Dissolved	6/1/21 06:55	6/2/21 15:56		101.5	51.7	mg/L	0.8120	4.06	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	6/1/21 09:55	6/2/21 17:20		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	6/1/21 09:55	6/2/21 17:20		1.015	0.0233	mg/L	0.000068	0.000203	
* Barium, Total	6/1/21 09:55	6/2/21 17:20		1.015	0.184	mg/L	0.000101	0.000203	
* Beryllium, Total	6/1/21 09:55	6/2/21 17:20		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/21 09:55	6/2/21 17:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/21 09:55	6/2/21 17:20		1.015	0.000258	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/1/21 09:55	6/2/21 17:20		1.015	0.0694	mg/L	0.000068	0.000203	
* Lead, Total	6/1/21 09:55	6/2/21 17:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	6/1/21 09:55	6/2/21 17:20		1.015	0.000106	mg/L	0.000068	0.000203	J
* Potassium, Total	6/1/21 09:55	6/2/21 17:20		1.015	2.94	mg/L	0.169505	0.5075	
* Manganese, Total	6/1/21 09:55	6/2/21 17:20		1.015	1.04	mg/L	0.000068	0.000203	
* Selenium, Total	6/1/21 09:55	6/2/21 17:20		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	6/1/21 09:55	6/2/21 17:20		1.015	0.0000849	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8			Analyst: DLJ						
* Manganese, Dissolved	6/1/21 06:55	6/1/21 12:50		1.015	1.09	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	6/4/21 09:30	6/7/21 14:19		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B			Analyst: JAG						
Alkalinity, Total as CaCO3	6/1/21 09:41	6/1/21 10:34		1	35.7	mg/L		0.1	
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	5/28/21 12:00	6/2/21 09:55		1	335	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-15V

Location Code: WMWBARAP
Collected: 5/25/21 08:55
Customer ID:
Submittal Date: 5/26/21 13:35

Laboratory ID Number: BB09706

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	6/1/21 09:41	6/1/21 10:34		1	35.7	mg/L			
Carbonate Alkalinity, (calc.)	6/1/21 09:41	6/1/21 10:34		1	0.00	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	6/3/21 14:58	6/3/21 14:58		25	180	mg/L	12.50	25	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/4/21 10:33	6/4/21 10:33		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/8/21 14:27	6/8/21 14:27		1	1.19	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	5/25/21 08:51	5/25/21 08:51			622.83	uS/cm			FA
pH	5/25/21 08:51	5/25/21 08:51			5.60	SU			FA
Temperature	5/25/21 08:51	5/25/21 08:51			20.82	C			FA
Turbidity	5/25/21 08:51	5/25/21 08:51			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.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/21 08:55

Customer ID:

Delivery Date: 5/26/21 13:35

Description: Barry Ash Pond - MW-15V

Laboratory ID Number: BB09706

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB09709	Selenium, Total	mg/L	-0.0000192	0.00100	0.10	0.0994	0.0969	0.0973	0.0850 to 0.115	99.4	70.0 to 130	2.59	20.0
BB09708	Iron, Dissolved	mg/L	0.000128	0.0176	0.2	112	111	0.206	0.170 to 0.230	404	70.0 to 130	1.48	20.0
BB09709	Iron, Total	mg/L	0.000601	0.0176	0.2	0.201	0.201	0.207	0.170 to 0.230	101	70.0 to 130	0.0602	20.0
BB09709	Lead, Total	mg/L	0.0000066	0.000147	0.10	0.105	0.103	0.107	0.0850 to 0.115	105	70.0 to 130	2.72	20.0
BB09709	Beryllium, Total	mg/L	0.0000153	0.000880	0.10	0.0869	0.0853	0.0901	0.0850 to 0.115	86.9	70.0 to 130	1.85	20.0
BB09709	Magnesium, Total	mg/L	0.00151	0.0462	5.00	5.22	5.18	5.31	4.25 to 5.75	104	70.0 to 130	0.618	20.0
BB09709	Thallium, Total	mg/L	-0.0000023	0.000147	0.10	0.103	0.101	0.102	0.0850 to 0.115	103	70.0 to 130	2.08	20.0
BB09707	Mercury, Total by CVAA	mg/L	0.0000889	0.000500	0.004	0.00397	0.00394	0.00400	0.00340 to 0.00460	99.3	70.0 to 130	0.738	20.0
BB09709	Arsenic, Total	mg/L	-0.0000727	0.000147	0.10	0.101	0.0991	0.0970	0.0850 to 0.115	101	70.0 to 130	1.86	20.0
BB09709	Barium, Total	mg/L	-0.0000235	0.000200	0.10	0.119	0.111	0.112	0.0850 to 0.115	119	70.0 to 130	6.86	20.0
BB09709	Potassium, Total	mg/L	-0.0170	0.367	10.0	9.33	9.69	9.54	8.50 to 11.5	93.3	70.0 to 130	3.82	20.0
BB09709	Lithium, Total	mg/L	0.0000545	0.0154	0.20	0.195	0.197	0.198	0.170 to 0.230	97.5	70.0 to 130	0.870	20.0
BB09709	Molybdenum, Total	mg/L	0.0000038	0.000147	0.10	0.102	0.0999	0.105	0.0850 to 0.115	102	70.0 to 130	2.12	20.0
BB09709	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.104	0.104	0.110	0.0850 to 0.115	104	70.0 to 130	0.137	20.0
BB09709	Cobalt, Total	mg/L	-0.000001	0.000147	0.10	0.101	0.103	0.102	0.0850 to 0.115	101	70.0 to 130	1.50	20.0
BB09708	Manganese, Dissolved	mg/L	0.0000447	0.000147	0.10	0.320	0.312	0.107	0.0850 to 0.115	105	70.0 to 130	2.61	20.0
BB09709	Boron, Total	mg/L	0.00648	0.0650	1.00	0.997	1.01	1.02	0.850 to 1.15	99.7	70.0 to 130	1.57	20.0
BB09709	Calcium, Total	mg/L	0.00407	0.152	5.00	5.20	5.16	5.36	4.25 to 5.75	104	70.0 to 130	0.634	20.0
BB09709	Chromium, Total	mg/L	-0.0000349	0.000440	0.10	0.102	0.102	0.103	0.0850 to 0.115	102	70.0 to 130	0.320	20.0
BB09709	Manganese, Total	mg/L	-0.0000172	0.000147	0.10	0.101	0.102	0.103	0.0850 to 0.115	101	70.0 to 130	0.538	20.0
BB09709	Sodium, Total	mg/L	0.000673	0.0660	5.00	4.99	5.05	5.04	4.25 to 5.75	99.9	70.0 to 130	1.09	20.0
BB09709	Antimony, Total	mg/L	0.000121	0.00100	0.10	0.109	0.103	0.110	0.0850 to 0.115	109	70.0 to 130	5.46	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/21 08:55

Customer ID:

Delivery Date: 5/26/21 13:35

Description: Barry Ash Pond - MW-15V

Laboratory ID Number: BB09706

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BB09706	Solids, Dissolved	mg/L	1.00	25.0			323	53.0	40.0 to 60.0			1.82	5.00
BB09706	Sulfate	mg/L	-0.276	1.00	20.0	21.5	1.36	20.1	18.0 to 22.0	102	80.0 to 120	13.3	20.0
BB09708	Alkalinity, Total as CaCO3	mg/L					296	52.8	45.0 to 55.0			1.01	10.0
BB09706	Fluoride	mg/L	0.0172	0.100	2.50	2.68	0.0506	2.64	2.25 to 2.75	107	80.0 to 120	0.00	20.0
BB09706	Chloride	mg/L	-0.0571	1.00	250	435	176	10.1	9.00 to 11.0	102	80.0 to 120	2.25	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-22H

Location Code: WMWBARAP
Collected: 5/25/21 09:45
Customer ID:
Submittal Date: 5/26/21 13:35

Laboratory ID Number: BB09707

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA		Preparation Method: EPA 1638					
* Boron, Total	6/1/21 09:55	6/4/21 14:33		1.015	0.0889	mg/L	0.030000	0.1015	J
* Calcium, Total	6/1/21 09:55	6/4/21 14:33		1.015	15.2	mg/L	0.070035	0.406	
* Iron, Total	6/1/21 09:55	6/4/21 17:22		50.75	69.7	mg/L	0.40600	2.03	
* Lithium, Total	6/1/21 09:55	6/4/21 14:33		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/1/21 09:55	6/4/21 14:33		1.015	13.7	mg/L	0.021315	0.406	
* Sodium, Total	6/1/21 09:55	6/4/21 17:22		50.75	75.1	mg/L	1.5225	20.3	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	6/1/21 06:55	6/2/21 15:59		101.5	70.4	mg/L	0.8120	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ		Preparation Method: EPA 1638					
* Antimony, Total	6/1/21 09:55	6/2/21 17:24		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	6/1/21 09:55	6/2/21 17:24		1.015	0.0191	mg/L	0.000068	0.000203	
* Barium, Total	6/1/21 09:55	6/2/21 17:24		1.015	0.261	mg/L	0.000101	0.000203	
* Beryllium, Total	6/1/21 09:55	6/2/21 17:24		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/21 09:55	6/2/21 17:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/21 09:55	6/2/21 17:24		1.015	0.000667	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/1/21 09:55	6/2/21 17:24		1.015	0.00264	mg/L	0.000068	0.000203	
* Lead, Total	6/1/21 09:55	6/2/21 17:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	6/1/21 09:55	6/2/21 17:24		1.015	0.00137	mg/L	0.000068	0.000203	
* Potassium, Total	6/1/21 09:55	6/2/21 17:24		1.015	1.93	mg/L	0.169505	0.5075	
* Manganese, Total	6/1/21 09:55	6/2/21 17:24		1.015	0.549	mg/L	0.000068	0.000203	
* Selenium, Total	6/1/21 09:55	6/2/21 17:24		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	6/1/21 09:55	6/2/21 17:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	6/1/21 06:55	6/1/21 12:53		1.015	0.559	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	6/4/21 09:30	6/7/21 14:22		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	6/1/21 09:41	6/1/21 10:34		1	290	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	5/28/21 12:00	6/2/21 09:55		1	378	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-22H

Location Code: WMWBARAP
Collected: 5/25/21 09:45
Customer ID:
Submittal Date: 5/26/21 13:35

Laboratory ID Number: BB09707

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	6/1/21 09:41	6/1/21 10:34		1	290	mg/L			
Carbonate Alkalinity, (calc.)	6/1/21 09:41	6/1/21 10:34		1	0.08	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	6/3/21 15:10	6/3/21 15:10		8	65.4	mg/L	4.00	8	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/4/21 10:45	6/4/21 10:45		1	0.282	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/8/21 14:51	6/8/21 14:51		3	72.3	mg/L	1.50	3	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	5/25/21 09:40	5/25/21 09:40			648.04	uS/cm			FA
pH	5/25/21 09:40	5/25/21 09:40			6.44	SU			FA
Temperature	5/25/21 09:40	5/25/21 09:40			20.13	C			FA
Turbidity	5/25/21 09:40	5/25/21 09:40			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.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/21 09:45

Customer ID:

Delivery Date: 5/26/21 13:35

Description: Barry Ash Pond - MW-22H

Laboratory ID Number: BB09707

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB09709	Molybdenum, Total	mg/L	0.0000038	0.000147	0.10	0.102	0.0999	0.105	0.0850 to 0.115	102	70.0 to 130	2.12	20.0
BB09709	Selenium, Total	mg/L	-0.0000192	0.00100	0.10	0.0994	0.0969	0.0973	0.0850 to 0.115	99.4	70.0 to 130	2.59	20.0
BB09709	Beryllium, Total	mg/L	0.0000153	0.000880	0.10	0.0869	0.0853	0.0901	0.0850 to 0.115	86.9	70.0 to 130	1.85	20.0
BB09709	Magnesium, Total	mg/L	0.00151	0.0462	5.00	5.22	5.18	5.31	4.25 to 5.75	104	70.0 to 130	0.618	20.0
BB09709	Thallium, Total	mg/L	-0.0000023	0.000147	0.10	0.103	0.101	0.102	0.0850 to 0.115	103	70.0 to 130	2.08	20.0
BB09709	Sodium, Total	mg/L	0.000673	0.0660	5.00	4.99	5.05	5.04	4.25 to 5.75	99.9	70.0 to 130	1.09	20.0
BB09709	Antimony, Total	mg/L	0.000121	0.00100	0.10	0.109	0.103	0.110	0.0850 to 0.115	109	70.0 to 130	5.46	20.0
BB09708	Iron, Dissolved	mg/L	0.000128	0.0176	0.2	112	111	0.206	0.170 to 0.230	404	70.0 to 130	1.48	20.0
BB09709	Iron, Total	mg/L	0.000601	0.0176	0.2	0.201	0.201	0.207	0.170 to 0.230	101	70.0 to 130	0.0602	20.0
BB09709	Lead, Total	mg/L	0.0000066	0.000147	0.10	0.105	0.103	0.107	0.0850 to 0.115	105	70.0 to 130	2.72	20.0
BB09709	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.104	0.104	0.110	0.0850 to 0.115	104	70.0 to 130	0.137	20.0
BB09709	Cobalt, Total	mg/L	-0.000001	0.000147	0.10	0.101	0.103	0.102	0.0850 to 0.115	101	70.0 to 130	1.50	20.0
BB09707	Mercury, Total by CVAA	mg/L	0.0000889	0.000500	0.004	0.00397	0.00394	0.00400	0.00340 to 0.00460	99.3	70.0 to 130	0.738	20.0
BB09709	Arsenic, Total	mg/L	-0.0000727	0.000147	0.10	0.101	0.0991	0.0970	0.0850 to 0.115	101	70.0 to 130	1.86	20.0
BB09709	Barium, Total	mg/L	-0.0000235	0.000200	0.10	0.119	0.111	0.112	0.0850 to 0.115	119	70.0 to 130	6.86	20.0
BB09709	Potassium, Total	mg/L	-0.0170	0.367	10.0	9.33	9.69	9.54	8.50 to 11.5	93.3	70.0 to 130	3.82	20.0
BB09709	Lithium, Total	mg/L	0.0000545	0.0154	0.20	0.195	0.197	0.198	0.170 to 0.230	97.5	70.0 to 130	0.870	20.0
BB09708	Manganese, Dissolved	mg/L	0.0000447	0.000147	0.10	0.320	0.312	0.107	0.0850 to 0.115	105	70.0 to 130	2.61	20.0
BB09709	Boron, Total	mg/L	0.00648	0.0650	1.00	0.997	1.01	1.02	0.850 to 1.15	99.7	70.0 to 130	1.57	20.0
BB09709	Calcium, Total	mg/L	0.00407	0.152	5.00	5.20	5.16	5.36	4.25 to 5.75	104	70.0 to 130	0.634	20.0
BB09709	Chromium, Total	mg/L	-0.0000349	0.000440	0.10	0.102	0.102	0.103	0.0850 to 0.115	102	70.0 to 130	0.320	20.0
BB09709	Manganese, Total	mg/L	-0.0000172	0.000147	0.10	0.101	0.102	0.103	0.0850 to 0.115	101	70.0 to 130	0.538	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/21 09:45

Customer ID:

Delivery Date: 5/26/21 13:35

Description: Barry Ash Pond - MW-22H

Laboratory ID Number: BB09707

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB09708	Alkalinity, Total as CaCO3	mg/L					296	52.8	45.0 to 55.0			1.01	10.0
BB09707	Solids, Dissolved	mg/L	1.00	25.0			373	53.0	40.0 to 60.0			0.666	5.00
BB09709	Sulfate	mg/L	-0.270	1.00	20.0	20.0	-0.439	20.1	18.0 to 22.0	100	80.0 to 120	0.00	20.0
BB09709	Fluoride	mg/L	0.0104	0.100	2.50	2.69	0.0237	2.65	2.25 to 2.75	108	80.0 to 120	0.00	20.0
BB09709	Chloride	mg/L	-0.0367	1.00	10.0	9.95	0.0587	10.0	9.00 to 11.0	99.5	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-24H

Location Code: WMWBARAP
Collected: 5/25/21 10:55
Customer ID:
Submittal Date: 5/26/21 13:35

Laboratory ID Number: BB09708

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	6/1/21 09:55	6/4/21 14:36		1.015	0.370	mg/L	0.030000	0.1015	
* Calcium, Total	6/1/21 09:55	6/4/21 14:36		1.015	18.6	mg/L	0.070035	0.406	
* Iron, Total	6/1/21 09:55	6/4/21 17:25		50.75	111	mg/L	0.40600	2.03	
* Lithium, Total	6/1/21 09:55	6/4/21 14:36		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/1/21 09:55	6/4/21 14:36		1.015	17.2	mg/L	0.021315	0.406	
* Sodium, Total	6/1/21 09:55	6/4/21 17:25		50.75	71.6	mg/L	1.5225	20.3	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	6/1/21 06:55	6/2/21 16:09		101.5	112	mg/L	0.8120	4.06	RA
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	6/1/21 09:55	6/2/21 17:27		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	6/1/21 09:55	6/2/21 17:27		1.015	0.0693	mg/L	0.000068	0.000203	
* Barium, Total	6/1/21 09:55	6/2/21 17:27		1.015	0.260	mg/L	0.000101	0.000203	
* Beryllium, Total	6/1/21 09:55	6/2/21 17:27		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/21 09:55	6/2/21 17:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/21 09:55	6/2/21 17:27		1.015	0.000878	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/1/21 09:55	6/2/21 17:27		1.015	0.00542	mg/L	0.000068	0.000203	
* Lead, Total	6/1/21 09:55	6/2/21 17:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	6/1/21 09:55	6/2/21 17:27		1.015	0.000869	mg/L	0.000068	0.000203	
* Potassium, Total	6/1/21 09:55	6/2/21 17:27		1.015	2.28	mg/L	0.169505	0.5075	
* Manganese, Total	6/1/21 09:55	6/2/21 17:27		1.015	0.211	mg/L	0.000068	0.000203	
* Selenium, Total	6/1/21 09:55	6/2/21 17:27		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	6/1/21 09:55	6/2/21 17:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	6/1/21 06:55	6/1/21 12:57		1.015	0.215	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	6/4/21 09:30	6/7/21 14:38		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	6/1/21 09:41	6/1/21 10:34		1	299	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	5/28/21 12:00	6/2/21 09:55		1	420	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond - MW-24H

Location Code: WMWBARAP
Collected: 5/25/21 10:55
Customer ID:
Submittal Date: 5/26/21 13:35

Laboratory ID Number: BB09708

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	6/1/21 09:41	6/1/21 10:34		1	299	mg/L			
Carbonate Alkalinity, (calc.)	6/1/21 09:41	6/1/21 10:34		1	0.05	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	6/3/21 15:12	6/3/21 15:12		5	46.0	mg/L	2.50	5	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/4/21 10:46	6/4/21 10:46		1	0.156	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/8/21 14:52	6/8/21 14:52		1	17.0	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	5/25/21 10:50	5/25/21 10:50			761.30	uS/cm			FA
pH	5/25/21 10:50	5/25/21 10:50			6.16	SU			FA
Temperature	5/25/21 10:50	5/25/21 10:50			21.72	C			FA
Turbidity	5/25/21 10:50	5/25/21 10:50			0.94	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/21 10:55

Customer ID:

Delivery Date: 5/26/21 13:35

Description: Barry Ash Pond - MW-24H

Laboratory ID Number: BB09708

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB09709	Selenium, Total	mg/L	-0.0000192	0.00100	0.10	0.0994	0.0969	0.0973	0.0850 to 0.115	99.4	70.0 to 130	2.59	20.0
BB09709	Molybdenum, Total	mg/L	0.0000038	0.000147	0.10	0.102	0.0999	0.105	0.0850 to 0.115	102	70.0 to 130	2.12	20.0
BB09709	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.104	0.104	0.110	0.0850 to 0.115	104	70.0 to 130	0.137	20.0
BB09709	Cobalt, Total	mg/L	-0.000001	0.000147	0.10	0.101	0.103	0.102	0.0850 to 0.115	101	70.0 to 130	1.50	20.0
BB09708	Iron, Dissolved	mg/L	0.000128	0.0176	0.2	112	111	0.206	0.170 to 0.230	404	70.0 to 130	1.48	20.0
BB09709	Iron, Total	mg/L	0.000601	0.0176	0.2	0.201	0.201	0.207	0.170 to 0.230	101	70.0 to 130	0.0602	20.0
BB09709	Lead, Total	mg/L	0.0000066	0.000147	0.10	0.105	0.103	0.107	0.0850 to 0.115	105	70.0 to 130	2.72	20.0
BB09709	Beryllium, Total	mg/L	0.0000153	0.000880	0.10	0.0869	0.0853	0.0901	0.0850 to 0.115	86.9	70.0 to 130	1.85	20.0
BB09709	Mercury, Total by CVAA	mg/L	0.0000875	0.000500	0.004	0.00402	0.00403	0.00393	0.00340 to 0.00460	100	70.0 to 130	0.316	20.0
BB09709	Magnesium, Total	mg/L	0.00151	0.0462	5.00	5.22	5.18	5.31	4.25 to 5.75	104	70.0 to 130	0.618	20.0
BB09709	Thallium, Total	mg/L	-0.0000023	0.000147	0.10	0.103	0.101	0.102	0.0850 to 0.115	103	70.0 to 130	2.08	20.0
BB09709	Arsenic, Total	mg/L	-0.0000727	0.000147	0.10	0.101	0.0991	0.0970	0.0850 to 0.115	101	70.0 to 130	1.86	20.0
BB09709	Barium, Total	mg/L	-0.0000235	0.000200	0.10	0.119	0.111	0.112	0.0850 to 0.115	119	70.0 to 130	6.86	20.0
BB09709	Potassium, Total	mg/L	-0.0170	0.367	10.0	9.33	9.69	9.54	8.50 to 11.5	93.3	70.0 to 130	3.82	20.0
BB09709	Lithium, Total	mg/L	0.0000545	0.0154	0.20	0.195	0.197	0.198	0.170 to 0.230	97.5	70.0 to 130	0.870	20.0
BB09708	Manganese, Dissolved	mg/L	0.0000447	0.000147	0.10	0.320	0.312	0.107	0.0850 to 0.115	105	70.0 to 130	2.61	20.0
BB09709	Boron, Total	mg/L	0.00648	0.0650	1.00	0.997	1.01	1.02	0.850 to 1.15	99.7	70.0 to 130	1.57	20.0
BB09709	Calcium, Total	mg/L	0.00407	0.152	5.00	5.20	5.16	5.36	4.25 to 5.75	104	70.0 to 130	0.634	20.0
BB09709	Chromium, Total	mg/L	-0.0000349	0.000440	0.10	0.102	0.102	0.103	0.0850 to 0.115	102	70.0 to 130	0.320	20.0
BB09709	Manganese, Total	mg/L	-0.0000172	0.000147	0.10	0.101	0.102	0.103	0.0850 to 0.115	101	70.0 to 130	0.538	20.0
BB09709	Sodium, Total	mg/L	0.000673	0.0660	5.00	4.99	5.05	5.04	4.25 to 5.75	99.9	70.0 to 130	1.09	20.0
BB09709	Antimony, Total	mg/L	0.000121	0.00100	0.10	0.109	0.103	0.110	0.0850 to 0.115	109	70.0 to 130	5.46	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/21 10:55

Customer ID:

Delivery Date: 5/26/21 13:35

Description: Barry Ash Pond - MW-24H

Laboratory ID Number: BB09708

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB09708	Alkalinity, Total as CaCO3	mg/L					296	52.8	45.0 to 55.0			1.01	10.0
BB09707	Solids, Dissolved	mg/L	1.00	25.0			373	53.0	40.0 to 60.0			0.666	5.00
BB09709	Fluoride	mg/L	0.0104	0.100	2.50	2.69	0.0237	2.65	2.25 to 2.75	108	80.0 to 120	0.00	20.0
BB09709	Sulfate	mg/L	-0.270	1.00	20.0	20.0	-0.439	20.1	18.0 to 22.0	100	80.0 to 120	0.00	20.0
BB09709	Chloride	mg/L	-0.0367	1.00	10.0	9.95	0.0587	10.0	9.00 to 11.0	99.5	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/15/21

Certificate Of Analysis

Description: Barry Ash Pond Equipment Blank-1

Location Code: WMWBARAPEB
Collected: 5/25/21 11:30
Customer ID:
Submittal Date: 5/26/21 13:35

Laboratory ID Number: BB09709

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	6/1/21 09:55	6/4/21 14:40		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	6/1/21 09:55	6/4/21 14:40		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	6/1/21 09:55	6/4/21 14:40		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	6/1/21 09:55	6/4/21 14:40		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/1/21 09:55	6/4/21 14:40		1.015	Not Detected	mg/L	0.021315	0.406	U
* Sodium, Total	6/1/21 09:55	6/4/21 14:40		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	6/1/21 09:55	6/2/21 17:31		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	6/1/21 09:55	6/2/21 17:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	6/1/21 09:55	6/2/21 17:31		1.015	Not Detected	mg/L	0.000101	0.000203	U
* Beryllium, Total	6/1/21 09:55	6/2/21 17:31		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/21 09:55	6/2/21 17:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/21 09:55	6/2/21 17:31		1.015	0.000328	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/1/21 09:55	6/2/21 17:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	6/1/21 09:55	6/2/21 17:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	6/1/21 09:55	6/2/21 17:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	6/1/21 09:55	6/2/21 17:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	6/1/21 09:55	6/2/21 17:31		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	6/1/21 09:55	6/2/21 17:31		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	6/1/21 09:55	6/2/21 17:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	6/4/21 09:30	6/7/21 14:41		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	5/28/21 12:00	6/2/21 09:55		1	Not Detected	mg/L		25	U
Analytical Method: SM4500CI E			Analyst: JCC						
* Chloride	6/3/21 15:13	6/3/21 15:13		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	6/4/21 10:47	6/4/21 10:47		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011			Analyst: JCC						
* Sulfate	6/8/21 14:53	6/8/21 14:53		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Batch QC Summary

Customer Account: WMWBARAPEB

Sample Date: 5/25/21 11:30

Customer ID:

Delivery Date: 5/26/21 13:35

Description: Barry Ash Pond Equipment Blank-1

Laboratory ID Number: BB09709

Sample	Analysis	Units	MB				Standard		Rec		Prec	Limit	
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec			
BB09709	Molybdenum, Total	mg/L	0.0000038	0.000147	0.10	0.102	0.0999	0.105	0.0850 to 0.115	102	70.0 to 130	2.12	20.0
BB09709	Selenium, Total	mg/L	-0.0000192	0.00100	0.10	0.0994	0.0969	0.0973	0.0850 to 0.115	99.4	70.0 to 130	2.59	20.0
BB09709	Beryllium, Total	mg/L	0.0000153	0.000880	0.10	0.0869	0.0853	0.0901	0.0850 to 0.115	86.9	70.0 to 130	1.85	20.0
BB09709	Mercury, Total by CVAA	mg/L	0.0000875	0.000500	0.004	0.00402	0.00403	0.00393	0.00340 to 0.00460	100	70.0 to 130	0.316	20.0
BB09709	Magnesium, Total	mg/L	0.00151	0.0462	5.00	5.22	5.18	5.31	4.25 to 5.75	104	70.0 to 130	0.618	20.0
BB09709	Thallium, Total	mg/L	-0.0000023	0.000147	0.10	0.103	0.101	0.102	0.0850 to 0.115	103	70.0 to 130	2.08	20.0
BB09709	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.104	0.104	0.110	0.0850 to 0.115	104	70.0 to 130	0.137	20.0
BB09709	Cobalt, Total	mg/L	-0.0000001	0.000147	0.10	0.101	0.103	0.102	0.0850 to 0.115	101	70.0 to 130	1.50	20.0
BB09709	Iron, Total	mg/L	0.000601	0.0176	0.2	0.201	0.201	0.207	0.170 to 0.230	101	70.0 to 130	0.0602	20.0
BB09709	Lead, Total	mg/L	0.0000066	0.000147	0.10	0.105	0.103	0.107	0.0850 to 0.115	105	70.0 to 130	2.72	20.0
BB09709	Arsenic, Total	mg/L	-0.0000727	0.000147	0.10	0.101	0.0991	0.0970	0.0850 to 0.115	101	70.0 to 130	1.86	20.0
BB09709	Barium, Total	mg/L	-0.0000235	0.000200	0.10	0.119	0.111	0.112	0.0850 to 0.115	119	70.0 to 130	6.86	20.0
BB09709	Potassium, Total	mg/L	-0.0170	0.367	10.0	9.33	9.69	9.54	8.50 to 11.5	93.3	70.0 to 130	3.82	20.0
BB09709	Lithium, Total	mg/L	0.0000545	0.0154	0.20	0.195	0.197	0.198	0.170 to 0.230	97.5	70.0 to 130	0.870	20.0
BB09709	Sodium, Total	mg/L	0.000673	0.0660	5.00	4.99	5.05	5.04	4.25 to 5.75	99.9	70.0 to 130	1.09	20.0
BB09709	Antimony, Total	mg/L	0.000121	0.00100	0.10	0.109	0.103	0.110	0.0850 to 0.115	109	70.0 to 130	5.46	20.0
BB09709	Boron, Total	mg/L	0.00648	0.0650	1.00	0.997	1.01	1.02	0.850 to 1.15	99.7	70.0 to 130	1.57	20.0
BB09709	Calcium, Total	mg/L	0.00407	0.152	5.00	5.20	5.16	5.36	4.25 to 5.75	104	70.0 to 130	0.634	20.0
BB09709	Chromium, Total	mg/L	-0.0000349	0.000440	0.10	0.102	0.102	0.103	0.0850 to 0.115	102	70.0 to 130	0.320	20.0
BB09709	Manganese, Total	mg/L	-0.0000172	0.000147	0.10	0.101	0.102	0.103	0.0850 to 0.115	101	70.0 to 130	0.538	20.0

Comments:

Batch QC Summary

Customer Account: WMWBARAPEB

Sample Date: 5/25/21 11:30

Customer ID:

Delivery Date: 5/26/21 13:35

Description: Barry Ash Pond Equipment Blank-1

Laboratory ID Number: BB09709

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB09707	Solids, Dissolved	mg/L	1.00	25.0			373	53.0	40.0 to 60.0			0.666	5.00
BB09709	Sulfate	mg/L	-0.270	1.00	20.0	20.0	-0.439	20.1	18.0 to 22.0	100	80.0 to 120	0.00	20.0
BB09709	Fluoride	mg/L	0.0104	0.100	2.50	2.69	0.0237	2.65	2.25 to 2.75	108	80.0 to 120	0.00	20.0
BB09709	Chloride	mg/L	-0.0367	1.00	10.0	9.95	0.0587	10.0	9.00 to 11.0	99.5	80.0 to 120	0.00	20.0

Comments:

Definitions

Abbreviation	Description
DF	Dilution Factor
LCS	Lab Control Sample
LFM	Lab Fortified Matrix
MB	Method Blank
MDL	Method Detection Limit; minimum concentration of an analyte that can be determined with 99% confidence that the concentration is greater than zero.
MS	Matrix Spike
MSD	Matrix Spike Duplicate
Prec	Precision (% RPD)
Q	Qualifier; comment used to note deviations or additional information associated with analytical results.
QC	Quality Control
Rec	Recovery of Matrix Spike
RL	Reporting Limit; lowest concentration at which an analyte can be quantitatively measured.
Vio Spec	Violation Specification; regulatory limit which has been exceeded by the sample analyzed.

Qualifier	Description
FA	Field results were reviewed by the Water Field Group.
J	Reported value is an estimate because concentration is less than reporting limit.
RA	Matrix spike is invalid due to sample concentration.
U	Compound was analyzed, but not detected.



Chain of Custody Groundwater

APC General Testing Laboratory

 Field Complete
 Lab Complete

 Outside Lab

 Lab ETA

Requested Complete Date	Routine		Results To	Dustin Brooks, Greg Dyer		
	Site Representative Tamala Davis			Requested By	Greg Dyer	
	Collector Anthony Goggins				Location Barry Ash Pond	

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	Anions	250 mL	7	N/A	N/A
	2	Dissolved Meta	500 mL	4	TDS	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-10	05/11/2021	08:20	6	Groundwater		BB08940

Relinquished By	Received By	Date/Time
		05/13/2021 11:15

SmarTroll ID	7586-41445-5-4	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/> Cooler Temp Thermometer ID pH Strip ID
Turbidity ID	4677-23343-4-2	
Sample Event	1320	

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		
	Site Representative			Requested By	Greg Dyer	
	Collector				Location	
		Dallas Gentry		Barry Ash Pond		

Bottles		1	Metals	500 mL	3	Hg	250 mL	5	Anions	250 mL	7	N/A	N/A
		2	Dissolved Meta	500 mL	4	TDS	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-8	05/11/2021	08:04	6	Groundwater		BB08941
MW-15	05/11/2021	11:35	6	Groundwater		BB08942

Relinquished By	Received By	Date/Time
<i>M. Gentry</i>	<i>A. Dyer</i>	05/13/2021 12:12

SmarTroll ID <input type="text" value="7586-41442-5-1"/>	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/> Cooler Temp <input type="text" value="0.3 degrees C"/> Thermometer ID <input type="text" value="5408-27568-2-2"/> pH Strip ID <input type="text" value="8206-45805-10-9"/>
Turbidity ID <input type="text" value="3901-20010-2-2"/>	
Sample Event <input type="text" value="1320"/>	

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 05/19/2021 12:30

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Tamala Davis	Requested By	Greg Dyer
Collector	Dallas Gentry	Location	Barry Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	Anions	250 mL	7	N/A	N/A
	2	Dissolved Meta	500 mL	4	TDS	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-23V	05/17/2021	13:22	6	Groundwater		BB09280
MW-6	05/17/2021	14:21	6	Groundwater		BB09281
FB-1	05/17/2021	14:45	4	Field Blank		BB09282
MW-1V	05/18/2021	08:46	6	Groundwater		BB09283
MW-1V dup	05/18/2021	08:46	6	Sample Duplicate		BB09284
MW-1	05/18/2021	11:14	6	Groundwater		BB09285
MW-2	05/18/2021	12:06	6	Groundwater		BB09286
MW-3	05/18/2021	13:28	6	Groundwater		BB09287
MW-4	05/18/2021	14:29	6	Groundwater		BB09288

Relinquished By	Received By	Date/Time
		05/18/2021 16:00
		05/19/2021 12:38

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>SmarTroll ID</td><td>7586-41442-5-1</td></tr> <tr><td>Turbidity ID</td><td>3901-20010-2-2</td></tr> <tr><td>Sample Event</td><td>1320</td></tr> </table>	SmarTroll ID	7586-41442-5-1	Turbidity ID	3901-20010-2-2	Sample Event	1320	<p>All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Cooler Temp</td><td>0.1 degrees C</td></tr> <tr><td>Thermometer ID</td><td>5408-27568-2-2</td></tr> <tr><td>pH Strip ID</td><td>8206-45805-10-9</td></tr> </table>	Cooler Temp	0.1 degrees C	Thermometer ID	5408-27568-2-2	pH Strip ID	8206-45805-10-9
SmarTroll ID	7586-41442-5-1												
Turbidity ID	3901-20010-2-2												
Sample Event	1320												
Cooler Temp	0.1 degrees C												
Thermometer ID	5408-27568-2-2												
pH Strip ID	8206-45805-10-9												

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 05/19/2021 12:30

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer	
Site Representative	Tamala Davis	Requested By	Greg Dyer	
Collector	TJ Daugherty	Location	Barry Ash Pond	

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	Anions	250 mL	7	N/A	N/A
	2	Diss Metals	500 mL	4	TDS	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-17H	05/17/2021	13:55	6	Groundwater		BB09289
MW-9	05/18/2021	09:10	6	Groundwater		BB09290
MW-10V	05/18/2021	10:25	6	Groundwater		BB09291
MW-12V	05/18/2021	12:45	6	Groundwater		BB09292
MW-12	05/18/2021	14:03	6	Groundwater		BB09293

Relinquished By	Received By	Date/Time
		05/18/2021 16:00
		05/19/2021 12:36

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>SmarTroll ID</td><td>7586-41443-5-2</td></tr> <tr><td>Turbidity ID</td><td>3901-20009-2-1</td></tr> <tr><td>Sample Event</td><td>1320</td></tr> </table>	SmarTroll ID	7586-41443-5-2	Turbidity ID	3901-20009-2-1	Sample Event	1320	<p>All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Cooler Temp</td><td>0.1 degrees C</td></tr> <tr><td>Thermometer ID</td><td>5408-27568-2-2</td></tr> <tr><td>pH Strip ID</td><td>8206-45805-10-9</td></tr> </table>	Cooler Temp	0.1 degrees C	Thermometer ID	5408-27568-2-2	pH Strip ID	8206-45805-10-9
SmarTroll ID	7586-41443-5-2												
Turbidity ID	3901-20009-2-1												
Sample Event	1320												
Cooler Temp	0.1 degrees C												
Thermometer ID	5408-27568-2-2												
pH Strip ID	8206-45805-10-9												

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 **05/19/2021 12:30**

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Tamala Davis	Requested By	Greg Dyer
Collector	Anthony Goggins	Location	Barry Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	Anions	250 mL	7	N/A	N/A
	2	Dissolved Meta	500 mL	4	TDS	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-17V	05/18/2021	08:32	6	Groundwater		BB09274
FB-2	05/18/2021	08:50	4	Field Blank		BB09275
MW-8V	05/18/2021	11:35	6	Groundwater		BB09276
MW-7V	05/18/2021	13:12	6	Groundwater		BB09277
MW-7	05/18/2021	14:17	6	Groundwater		BB09278
MW-7DUP	05/18/2021	14:17	6	Sample Duplicate		BB09279

Relinquished By	Received By	Date/Time
<i>Anthony Goggins</i>	<i>Greg Dyer</i>	05/19/2021 12:41

SmarTroll ID	7586-41445-5-4
Turbidity ID	4677-23343-4-2
Sample Event	1320

All metals and radiological bottles have pH < 2

Cooler Temp	0.1 degrees C
Thermometer ID	5408-27568-2-2
pH Strip ID	8206-45805-10-9

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete

Outside Lab

Lab Complete

Lab ETA

Requested Complete Date Site Representative Collector	Routine	Results To Requested By Location	Dustin Brooks, Greg Dyer
	Tamala Davis		Greg Dyer
	Dallas Gentry		Barry Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	Anions	250 mL	7	N/A	N/A
	2	Dissolved Meta	500 mL	4	TDS	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-18H	05/19/2021	09:04	6	Groundwater		BB09405
MW-11	05/19/2021	10:51	6	Groundwater		BB09406
MW-16	05/19/2021	12:01	6	Groundwater		BB09407
MW-16V	05/19/2021	13:32	6	Groundwater		BB09408

Relinquished By <i>Tamala Davis</i>	Received By <i>Dallas Gentry</i>	Date/Time 05/20/2021 11:10

SmarTroll ID	7586-41442-5-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>	
Turbidity ID	3901-20010-2-2		
Sample Event	1320		
		Cooler Temp	0.3 degrees C
		Thermometer ID	5408-27568-2-2
		pH Strip ID	8206-45805-10-9

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date Site Representative Collector	Routine	Results To Requested By Location	Dustin Brooks, Greg Dyer
	Tamala Davis		Greg Dyer
	TJ Daugherty		Barry Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	Anions	250 mL	7	N/A	N/A
	2	Diss Metals	500 mL	4	TDS	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-20H	05/19/2021	10:00	6	Groundwater		BB09409
MW-20V	05/19/2021	10:58	6	Groundwater		BB09410
MW-13V	05/19/2021	12:05	6	Groundwater		BB09411
MW-13	05/19/2021	13:00	6	Groundwater		BB09412
FB-3	05/19/2021	13:30	4	Field Blank		BB09413

Relinquished By	Received By	Date/Time
		05/20/2021 11:11

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>	
Turbidity ID	3901-20009-2-1		
Sample Event	1320		
		Cooler Temp	0.0 degrees C
		Thermometer ID	5408-27568-2-2
		pH Strip ID	8206-45805-10-9

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	
	Site Representative			Requested By	
	Collector			Location	
	Tamala Davis		Greg Dyer		
	TJ Daugherty		Barry Ash Pond		

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	Anions	250 mL	7	N/A	N/A
	2	Diss Metals	500 mL	4	TDS	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-25V	05/24/2021	13:38	6	Groundwater		BB09703
MW-25H	05/24/2021	14:30	6	Groundwater		BB09704
MW-25H Dup	05/24/2021	14:30	6	Sample Duplicate		BB09705
MW-15V	05/25/2021	08:55	6	Groundwater		BB09706
MW-22H	05/25/2021	09:45	6	Groundwater		BB09707
MW-24H	05/25/2021	10:55	6	Groundwater		BB09708
EB-1	05/25/2021	11:30	4	Equipment Blank		BB09709

Relinquished By	Received By	Date/Time
		05/26/2021 12:18

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-20009-2-1	
Sample Event	1320	
Cooler Temp	0.0 degrees C	
Thermometer ID	5408-27568-2-2	
pH Strip ID	8206-45805-10-9	

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete

Outside Lab

Lab Complete

Lab ETA

Requested Complete Date Site Representative Collector	Routine	Results To Requested By Location	Dustin Brooks, Greg Dyer
	Tamala Davis		Greg Dyer
	Dallas Gentry		Barry Ash Pond

Bottles	1	2	3	4	5	6	7	8
	Metals	500 mL	Hg	250 mL	Anions	250 mL	N/A	N/A
	Dissolved Meta	500 mL	TDS	500 mL	Alkalinity	250 mL	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-23H	05/24/2021	12:51	6	Groundwater		BB09697
FB-4	05/24/2021	13:10	4	Field Blank		BB09698
MW-19H	05/25/2021	08:51	6	Groundwater		BB09699
MW-14V	05/25/2021	09:56	6	Groundwater		BB09700
MW-14V dup	05/25/2021	09:56	6	Sample Duplicate		BB09701
MW-14	05/25/2021	10:59	6	Groundwater		BB09702

Relinquished By	Received By	Date/Time
<i>Tamala Davis</i>	<i>Leana M...</i>	05/26/2021 12:17

SmarTroll ID	7586-41442-5-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-20010-2-2	
Sample Event	1320	Cooler Temp
		Thermometer ID
		pH Strip ID

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody
Groundwater
APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer		
	Site Representative		Tamala Davis	Requested By	Greg Dyer
	Collector		Anthony Goggins		Location

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments	MS/MSD collected @ MW-10
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Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-10	05/11/2021	08:20	3	Groundwater		BB08943

Relinquished By	Received By	Date/Time
<i>Anthony Goggins</i>	<i>Sam Maly</i>	05/13/2021 11:13

SmarTroll ID	7586-41445-5-4	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>	
Turbidity ID	4677-23343-4-2		
Sample Event	1320		
		Cooler Temp	N/A
		Thermometer ID	N/A
		pH Strip ID	8206-45805-10-9

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
Site Representative	Tamala Davis	Requested By	Greg Dyer
Collector	Dallas Gentry	Location	Barry Ash Pond

Bottles	1 Radium	1 L	3 N/A	N/A	5 N/A	N/A	7 N/A	N/A
	2 N/A	N/A	4 N/A	N/A	6 N/A	N/A	8 N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-8	05/11/2021	08:04	1	Groundwater		BB08944
MW-15	05/11/2021	11:35	1	Groundwater		BB08945

Relinquished By	Received By	Date/Time
<i>M. Dyer</i>	<i>Lauren May</i>	05/13/2021 12:13

SmarTroll ID	7586-41442-5-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-20010-2-2	
Sample Event	1320	
Cooler Temp	N/A	
Thermometer ID	N/A	
pH Strip ID	8206-45805-10-9	

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 05/19/2021 12:30

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Tamala Davis	Requested By	Greg Dyer
Collector	Dallas Gentry	Location	Barry Ash Pond

Bottles	1 Radium	1 L	3 N/A	N/A	5 N/A	N/A	7 N/A	N/A
	2 N/A	N/A	4 N/A	N/A	6 N/A	N/A	8 N/A	N/A

Comments: Radium MS/MSD collected at MW-6

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-23V	05/17/2021	13:22	1	Groundwater		BB09300
MW-6	05/17/2021	14:21	3	Groundwater		BB09301
FB-1	05/17/2021	14:45	1	Field Blank		BB09302
MW-1V	05/18/2021	08:46	1	Groundwater		BB09303
MW-1V dup	05/18/2021	08:46	1	Sample Duplicate		BB09304
MW-1	05/18/2021	11:14	1	Groundwater		BB09305
MW-2	05/18/2021	12:06	1	Groundwater		BB09306
MW-3	05/18/2021	13:28	1	Groundwater		BB09307
MW-4	05/18/2021	14:29	1	Groundwater		BB09308

Relinquished By	Received By	Date/Time
		05/18/2021 16:00
		05/19/2021 12:38

SmarTroll ID	7586-41442-5-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>	
Turbidity ID	3901-20010-2-2	Cooler Temp	N/A
Sample Event	1320	Thermometer ID	N/A
		pH Strip ID	8206-45805-10-9

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 05/19/2021 12:30

Requested Complete Date Site Representative Collector	Routine	Results To Requested By Location	Dustin Brooks, Greg Dyer
	Tamala Davis		Greg Dyer
	TJ Daugherty		Barry Ash Pond

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments Rad MS/MSD @ MW-17H

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-17H	05/17/2021	13:55	3	Groundwater		BB09309
MW-9	05/18/2021	09:10	1	Groundwater		BB09310
MW-10V	05/18/2021	10:25	1	Groundwater		BB09311
MW-12V	05/18/2021	12:45	1	Groundwater		BB09312
MW-12	05/18/2021	14:03	1	Groundwater		BB09313

Relinquished By	Received By	Date/Time
		05/18/2021 16:00
		05/19/2021 12:35

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/> Cooler Temp N/A Thermometer ID N/A pH Strip ID 8206-45805-10-9
Turbidity ID	3901-20009-2-1	
Sample Event	1320	



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete

Outside Lab

Lab Complete

Lab ETA 05/19/2021 12:30

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Tamala Davis	Requested By	Greg Dyer
Collector	Anthony Goggins	Location	Barry Ash Pond

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-17V	05/18/2021	08:32	1	Groundwater		BB09294
FB-2	05/18/2021	08:50	1	Field Blank		BB09295
MW-8V	05/18/2021	11:35	1	Groundwater		BB09296
MW-7V	05/18/2021	13:12	1	Groundwater		BB09297
MW-7	05/18/2021	14:17	1	Groundwater		BB09298
MW-7DUP	05/18/2021	14:17	1	Sample Duplicate		BB09299

Relinquished By	Received By	Date/Time
<i>Anthony Goggins</i>	<i>Greg Dyer</i>	05/19/2021 12:40

SmarTroll ID	7586-41445-5-4	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	4677-23343-4-2	Cooler Temp
Sample Event	1320	Thermometer ID
		pH Strip ID
		8206-45805-10-9

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody
Groundwater
APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Tamala Davis	Requested By	Greg Dyer
Collector	Dallas Gentry	Location	Barry Ash Pond

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-18H	05/19/2021	09:04	1	Groundwater		BB09414
MW-11	05/19/2021	10:51	1	Groundwater		BB09415
MW-16	05/19/2021	12:01	1	Groundwater		BB09416
MW-16V	05/19/2021	13:32	1	Groundwater		BB09417

Relinquished By	Received By	Date/Time
<i>Mel Dyer</i>	<i>Laura Miller</i>	05/20/2021 11:10

SmarTroll ID	7586-41442-5-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-20010-2-2	
Sample Event	1320	
Cooler Temp	N/A	pH Strip ID
Thermometer ID	N/A	
	8206-45805-10-9	

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody
Groundwater
APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Tamala Davis	Requested By	Greg Dyer
Collector	TJ Daugherty	Location	Barry Ash Pond

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-20H	05/19/2021	10:00	1	Groundwater		BB09418
MW-20V	05/19/2021	10:58	1	Groundwater		BB09419
MW-13V	05/19/2021	12:05	1	Groundwater		BB09420
MW-13	05/19/2021	13:00	1	Groundwater		BB09421
FB-3	05/19/2021	13:30	1	Field Blank		BB09422

Relinquished By	Received By	Date/Time
		05/20/2021 11:11

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>	
Turbidity ID	3901-20009-2-1		
Sample Event	1320		
		Cooler Temp	N/A
		Thermometer ID	N/A
		pH Strip ID	8206-45805-10-9

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
Site Representative	Tamala Davis	Requested By	Greg Dyer
Collector	Dallas Gentry	Location	Barry Ash Pond

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-23H	05/24/2021	12:51	1	Groundwater		BB09710
FB-4	05/24/2021	13:10	1	Field Blank		BB09711
MW-19H	05/25/2021	08:51	1	Groundwater		BB09712
MW-14V	05/25/2021	09:56	1	Groundwater		BB09713
MW-14V dup	05/25/2021	09:56	1	Sample Duplicate		BB09714
MW-14	05/25/2021	10:59	1	Groundwater		BB09715

Relinquished By	Received By	Date/Time
		05/26/2021 12:18

SmarTroll ID	7586-41442-5-1
Turbidity ID	3901-20010-2-2
Sample Event	1320

All metals and radiological bottles have pH < 2

Cooler Temp	N/A
Thermometer ID	N/A
pH Strip ID	8206-45805-10-9

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody
Groundwater
APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine		Results To	Dustin Brooks, Greg Dyer		
	Site Representative			Requested By	Greg Dyer	
	Collector				Location	
		Tamala Davis			Barry Ash Pond	
		TJ Daugherty				

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-25V	05/24/2021	13:38	1	Groundwater		BB09716
MW-25H	05/24/2021	14:30	1	Groundwater		BB09717
MW-25H Dup	05/24/2021	14:30	1	Sample Duplicate		BB09718
MW-15V	05/25/2021	08:55	1	Groundwater		BB09719
MW-22H	05/25/2021	09:45	1	Groundwater		BB09720
MW-24H	05/25/2021	10:55	1	Groundwater		BB09721
EB-1	05/25/2021	11:30	1	Equipment Blank		BB09722

Relinquished By	Received By	Date/Time
		05/26/2021 12:18

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-20009-2-1	Cooler Temp
Sample Event	1320	Thermometer ID
		pH Strip ID
		8206-45805-10-9

Bottles/Pre-Preserved Bottles are provided by the GTL

July 09, 2021

Laura Midkiff
Alabama Power
744 Highway 87
GSC #8
Calera, AL 35040

RE: Project: BARRY ASH POND WMWBARAP_1320
Pace Project No.: 92543109

Dear Laura Midkiff:

Enclosed are the analytical results for sample(s) received by the laboratory on June 02, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

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

Sincerely,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Brooke Caton, Alabama Power
Renee Jernigan, Alabama Power



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BARRY ASH POND WMWBARAP_1320
Pace Project No.: 92543109

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92543109001	BB08943 MW-10	Water	05/11/21 08:20	06/02/21 10:30
92543109002	BB08943 MW-10 MS	Water	05/11/21 08:20	06/02/21 10:30
92543109003	BB08943 MW-10 MSD	Water	05/11/21 08:20	06/02/21 10:30
92543109004	BB08944 MW-8	Water	05/11/21 08:04	06/02/21 10:30
92543109005	BB08945 MW-15	Water	05/11/21 11:35	06/02/21 10:30
92543109006	BB09294 MW-17V	Water	05/18/21 08:32	06/02/21 10:30
92543109007	BB09295 FB-2	Water	05/18/21 08:50	06/02/21 10:30
92543109008	BB09296 MW-8V	Water	05/18/21 11:35	06/02/21 10:30
92543109009	BB09297 MW-7V	Water	05/18/21 13:12	06/02/21 10:30
92543109010	BB09298 MW-7	Water	05/18/21 14:17	06/02/21 10:30
92543109011	BB09299 MW-7 DUP	Water	05/18/21 14:17	06/02/21 10:30
92543109012	BB09300 MW-23V	Water	05/17/21 13:22	06/02/21 10:30
92543109013	BB09301 MW-6	Water	05/17/21 14:21	06/02/21 10:30
92543109014	BB09301 MW-6 MS	Water	05/17/21 14:21	06/02/21 10:30
92543109015	BB09301 MW-6 MSD	Water	05/17/21 14:21	06/02/21 10:30
92543109016	BB09302 FB-1	Water	05/17/21 14:45	06/02/21 10:30
92543109017	BB09303 MW-1V	Water	05/18/21 08:46	06/02/21 10:30
92543109018	BB09304 MW-1V DUP	Water	05/18/21 08:46	06/02/21 10:30
92543109019	BB09305 MW-1	Water	05/18/21 11:14	06/02/21 10:30
92543109020	BB09306 MW-2	Water	05/18/21 12:06	06/02/21 10:30
92543109021	BB09307 MW-3	Water	05/18/21 13:28	06/02/21 10:30
92543109022	BB09308 MW-4	Water	05/18/21 14:29	06/02/21 10:30
92543109023	BB09309 MW-17H	Water	05/17/21 13:55	06/02/21 10:30
92543109024	BB09309 MW-17H MS	Water	05/17/21 13:55	06/02/21 10:30
92543109025	BB09309 MW-17H MSD	Water	05/17/21 13:55	06/02/21 10:30
92543109026	BB09310 MW-9	Water	05/18/21 09:10	06/02/21 10:30
92543109027	BB09311 MW-10V	Water	05/18/21 10:25	06/02/21 10:30
92543109028	BB09312 MW-12V	Water	05/18/21 12:45	06/02/21 10:30
92543109029	BB09313 MW-12	Water	05/18/21 14:03	06/02/21 10:30
92543109030	BB09414 MW-18H	Water	05/19/21 09:04	06/02/21 10:30
92543109031	BB09415 MW-11	Water	05/19/21 10:51	06/02/21 10:30
92543109032	BB09416 MW-16	Water	05/19/21 12:01	06/02/21 10:30
92543109033	BB09417 MW-16V	Water	05/19/21 13:32	06/02/21 10:30
92543109034	BB09418 MW-20H	Water	05/19/21 10:00	06/02/21 10:30
92543109035	BB09419 MW-20V	Water	05/19/21 10:58	06/02/21 10:30
92543109036	BB09420 MW-13V	Water	05/19/21 12:05	06/02/21 10:30
92543109037	BB09421 MW-13	Water	05/19/21 13:00	06/02/21 10:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BARRY ASH POND WMWBARAP_1320
Pace Project No.: 92543109

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92543109038	BB09422 FB-3	Water	05/19/21 13:30	06/02/21 10:30
92543109039	BB09710 MW-23H	Water	05/24/21 12:51	06/02/21 10:30
92543109040	BB09711 FB-4	Water	05/24/21 13:10	06/02/21 10:30
92543109041	BB09712 MW-19H	Water	05/25/21 08:51	06/02/21 10:30
92543109042	BB09713 MW-14V	Water	05/25/21 09:56	06/02/21 10:30
92543109043	BB09714 MW-14V DUP	Water	05/25/21 09:56	06/02/21 10:30
92543109044	BB09715 MW-14	Water	05/25/21 10:59	06/02/21 10:30
92543109045	BB09716 MW-25V	Water	05/24/21 13:38	06/02/21 10:30
92543109046	BB09717 MW-25H	Water	05/24/21 14:30	06/02/21 10:30
92543109047	BB09718 MW-25H DUP	Water	05/24/21 14:30	06/02/21 10:30
92543109048	BB09719 MW-15V	Water	05/25/21 08:55	06/02/21 10:30
92543109049	BB09720 MW-22H	Water	05/25/21 09:45	06/02/21 10:30
92543109050	BB09721 MW-24H	Water	05/25/21 10:55	06/02/21 10:30
92543109051	BB09722 EB-1	Water	05/25/21 11:30	06/02/21 10:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92543109001	BB08943 MW-10	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92543109002	BB08943 MW-10 MS	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92543109003	BB08943 MW-10 MSD	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92543109004	BB08944 MW-8	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92543109005	BB08945 MW-15	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92543109006	BB09294 MW-17V	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92543109007	BB09295 FB-2	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92543109008	BB09296 MW-8V	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92543109009	BB09297 MW-7V	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92543109010	BB09298 MW-7	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92543109011	BB09299 MW-7 DUP	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92543109012	BB09300 MW-23V	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92543109013	BB09301 MW-6	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BARRY ASH POND WMWBARAP_1320
Pace Project No.: 92543109

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92543109014	BB09301 MW-6 MS	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92543109015	BB09301 MW-6 MSD	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92543109016	BB09302 FB-1	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92543109017	BB09303 MW-1V	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92543109018	BB09304 MW-1V DUP	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92543109019	BB09305 MW-1	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92543109020	BB09306 MW-2	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92543109021	BB09307 MW-3	EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92543109022	BB09308 MW-4	EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92543109023	BB09309 MW-17H	EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92543109024	BB09309 MW-17H MS	EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
92543109025	BB09309 MW-17H MSD	EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
92543109026	BB09310 MW-9	EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92543109027	BB09311 MW-10V	EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BARRY ASH POND WMWBARAP_1320
Pace Project No.: 92543109

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92543109028	BB09312 MW-12V	Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
92543109029	BB09313 MW-12	Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
92543109030	BB09414 MW-18H	Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
92543109031	BB09415 MW-11	Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
92543109032	BB09416 MW-16	Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
92543109033	BB09417 MW-16V	Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
92543109034	BB09418 MW-20H	Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
92543109035	BB09419 MW-20V	Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
92543109036	BB09420 MW-13V	Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
92543109037	BB09421 MW-13	Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
92543109038	BB09422 FB-3	Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
92543109039	BB09710 MW-23H	Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BARRY ASH POND WMWBARAP_1320
Pace Project No.: 92543109

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92543109040	BB09711 FB-4	EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92543109041	BB09712 MW-19H	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92543109042	BB09713 MW-14V	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92543109043	BB09714 MW-14V DUP	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92543109044	BB09715 MW-14	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92543109045	BB09716 MW-25V	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92543109046	BB09717 MW-25H	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92543109047	BB09718 MW-25H DUP	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92543109048	BB09719 MW-15V	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92543109049	BB09720 MW-22H	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92543109050	BB09721 MW-24H	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92543109051	BB09722 EB-1	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
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PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Method: EPA 9315

Description: 9315 Total Radium

Client: Alabama Power

Date: July 09, 2021

General Information:

51 samples were analyzed for EPA 9315 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Method: EPA 9320

Description: 9320 Radium 228

Client: Alabama Power

Date: July 09, 2021

General Information:

51 samples were analyzed for EPA 9320 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 452674

1g: Analyte detected in Method Blank above RDL of 1.0 pCi/L. Sample activity is greater than associated MDC or RDL and has been reported with narration.

- BB09309 MW-17H (Lab ID: 92543109023)
 - Radium-228
- BB09311 MW-10V (Lab ID: 92543109027)
 - Radium-228

2g: Analyte detected in Method Blank above RDL of 1.0 pCi/L. Sample activity is less than associated MDC or RDL and is reportable without qualification.

- BB09307 MW-3 (Lab ID: 92543109021)
 - Radium-228
- BB09308 MW-4 (Lab ID: 92543109022)
 - Radium-228
- BB09310 MW-9 (Lab ID: 92543109026)
 - Radium-228
- BB09312 MW-12V (Lab ID: 92543109028)
 - Radium-228
- BB09313 MW-12 (Lab ID: 92543109029)
 - Radium-228
- BB09414 MW-18H (Lab ID: 92543109030)
 - Radium-228
- BB09415 MW-11 (Lab ID: 92543109031)
 - Radium-228
- BB09416 MW-16 (Lab ID: 92543109032)
 - Radium-228

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PROJECT NARRATIVE

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Method: EPA 9320

Description: 9320 Radium 228

Client: Alabama Power

Date: July 09, 2021

Analyte Comments:

QC Batch: 452674

2g: Analyte detected in Method Blank above RDL of 1.0 pCi/L. Sample activity is less than associated MDC or RDL and is reportable without qualification.

- BB09417 MW-16V (Lab ID: 92543109033)
 - Radium-228
- BB09418 MW-20H (Lab ID: 92543109034)
 - Radium-228
- BB09419 MW-20V (Lab ID: 92543109035)
 - Radium-228
- BB09420 MW-13V (Lab ID: 92543109036)
 - Radium-228
- BB09421 MW-13 (Lab ID: 92543109037)
 - Radium-228
- BB09422 FB-3 (Lab ID: 92543109038)
 - Radium-228
- BB09710 MW-23H (Lab ID: 92543109039)
 - Radium-228
- BB09711 FB-4 (Lab ID: 92543109040)
 - Radium-228

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PROJECT NARRATIVE

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Method: Total Radium Calculation

Description: Total Radium 228+226

Client: Alabama Power

Date: July 09, 2021

General Information:

45 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: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Sample: BB08943 MW-10 **Lab ID: 92543109001** Collected: 05/11/21 08:20 Received: 06/02/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.509U ± 0.318 (0.530) C:93% T:NA	pCi/L	07/07/21 17:42	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.610U ± 0.399 (0.755) C:73% T:90%	pCi/L	07/06/21 14:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.12U ± 0.717 (1.29)	pCi/L	07/08/21 14:01	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Sample: BB08943 MW-10 MS **Lab ID: 92543109002** Collected: 05/11/21 08:20 Received: 06/02/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	105.34 %REC ± NA (NA) C:NA T:NA	pCi/L	07/07/21 17:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	81.06 %REC ± NA (NA) C:NA T:NA	pCi/L	07/06/21 14:25	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Sample: BB08943 MW-10 MSD **Lab ID: 92543109003** Collected: 05/11/21 08:20 Received: 06/02/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	107.23 %REC 1.77 RPD ± NA (NA) C:NA T:NA	pCi/L	07/07/21 17:20	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	90.10 %REC 10.56 RPD ± NA (NA) C:NA T:NA	pCi/L	07/06/21 14:25	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Sample: BB08944 MW-8 **Lab ID: 92543109004** Collected: 05/11/21 08:04 Received: 06/02/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.374U ± 0.268 (0.450) C:89% T:NA	pCi/L	07/07/21 17:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.274U ± 0.371 (0.792) C:74% T:86%	pCi/L	07/06/21 14:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.648U ± 0.639 (1.24)	pCi/L	07/08/21 14:01	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Sample: BB08945 MW-15 **Lab ID: 92543109005** Collected: 05/11/21 11:35 Received: 06/02/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.544U ± 0.334 (0.544) C:86% T:NA	pCi/L	07/07/21 17:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.140U ± 0.410 (0.918) C:79% T:80%	pCi/L	07/06/21 14:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.684U ± 0.744 (1.46)	pCi/L	07/08/21 14:01	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Sample: BB09294 MW-17V **Lab ID: 92543109006** Collected: 05/18/21 08:32 Received: 06/02/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.781 ± 0.361 (0.445) C:86% T:NA	pCi/L	07/07/21 17:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.265U ± 0.403 (0.871) C:74% T:81%	pCi/L	07/06/21 14:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.05U ± 0.764 (1.32)	pCi/L	07/08/21 14:01	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Sample: BB09295 FB-2 **Lab ID: 92543109007** Collected: 05/18/21 08:50 Received: 06/02/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0667U ± 0.182 (0.442) C:92% T:NA	pCi/L	07/07/21 17:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.373U ± 0.398 (0.826) C:76% T:86%	pCi/L	07/06/21 14:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.440U ± 0.580 (1.27)	pCi/L	07/08/21 14:01	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Sample: BB09296 MW-8V **Lab ID: 92543109008** Collected: 05/18/21 11:35 Received: 06/02/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.797 ± 0.357 (0.404) C:92% T:NA	pCi/L	07/07/21 17:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.178U ± 0.361 (0.798) C:71% T:87%	pCi/L	07/06/21 14:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.975U ± 0.718 (1.20)	pCi/L	07/08/21 14:01	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Sample: BB09297 MW-7V **Lab ID: 92543109009** Collected: 05/18/21 13:12 Received: 06/02/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.177U ± 0.209 (0.418) C:84% T:NA	pCi/L	07/07/21 17:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.0219U ± 0.316 (0.738) C:68% T:90%	pCi/L	07/06/21 14:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.199U ± 0.525 (1.16)	pCi/L	07/08/21 14:01	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Sample: BB09298 MW-7 **Lab ID: 92543109010** Collected: 05/18/21 14:17 Received: 06/02/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.122U ± 0.185 (0.398) C:86% T:NA	pCi/L	07/07/21 17:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.475U ± 0.410 (0.822) C:69% T:82%	pCi/L	07/06/21 14:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.597U ± 0.595 (1.22)	pCi/L	07/08/21 14:01	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Sample: BB09299 MW-7 DUP **Lab ID: 92543109011** Collected: 05/18/21 14:17 Received: 06/02/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.356 ± 0.244 (0.345) C:81% T:NA	pCi/L	07/07/21 18:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.147U ± 0.376 (0.840) C:74% T:82%	pCi/L	07/06/21 14:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.503U ± 0.620 (1.19)	pCi/L	07/08/21 14:01	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Sample: BB09300 MW-23V **Lab ID: 92543109012** Collected: 05/17/21 13:22 Received: 06/02/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.114U ± 0.160 (0.337) C:93% T:NA	pCi/L	07/07/21 18:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.260U ± 0.359 (0.768) C:76% T:89%	pCi/L	07/06/21 14:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.374U ± 0.519 (1.11)	pCi/L	07/08/21 14:01	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Sample: BB09301 MW-6 **Lab ID: 92543109013** Collected: 05/17/21 14:21 Received: 06/02/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.180U ± 0.209 (0.420) C:87% T:NA	pCi/L	07/07/21 18:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.66 ± 0.546 (0.752) C:74% T:87%	pCi/L	07/07/21 10:51	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.84 ± 0.755 (1.17)	pCi/L	07/08/21 14:01	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Sample: BB09301 MW-6 MS **Lab ID: 92543109014** Collected: 05/17/21 14:21 Received: 06/02/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	104.26 %REC ± NA (NA) C:NA T:NA	pCi/L	07/07/21 18:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	83.00 %REC ± NA (NA) C:NA T:NA	pCi/L	07/07/21 10:51	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Sample: BB09301 MW-6 MSD **Lab ID: 92543109015** Collected: 05/17/21 14:21 Received: 06/02/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	109.79 %REC 5.16 RPD ± NA (NA) C:NA T:NA	pCi/L	07/07/21 18:59	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	74.63 %REC 10.63 RPD ± NA (NA) C:NA T:NA	pCi/L	07/07/21 10:51	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Sample: BB09302 FB-1 **Lab ID: 92543109016** Collected: 05/17/21 14:45 Received: 06/02/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.153U ± 0.219 (0.474) C:92% T:NA	pCi/L	07/07/21 18:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.488U ± 0.447 (0.911) C:73% T:80%	pCi/L	07/06/21 14:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.641U ± 0.666 (1.39)	pCi/L	07/08/21 14:01	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Sample: BB09303 MW-1V **Lab ID: 92543109017** Collected: 05/18/21 08:46 Received: 06/02/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.363U ± 0.256 (0.412) C:86% T:NA	pCi/L	07/07/21 18:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.451U ± 0.423 (0.861) C:69% T:81%	pCi/L	07/06/21 14:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.814U ± 0.679 (1.27)	pCi/L	07/08/21 14:01	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Sample: BB09304 MW-1V DUP **Lab ID: 92543109018** Collected: 05/18/21 08:46 Received: 06/02/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.671 ± 0.328 (0.388) C:85% T:NA	pCi/L	07/07/21 18:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.814 ± 0.426 (0.756) C:74% T:91%	pCi/L	07/06/21 14:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.49 ± 0.754 (1.14)	pCi/L	07/08/21 14:01	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Sample: BB09305 MW-1 **Lab ID: 92543109019** Collected: 05/18/21 11:14 Received: 06/02/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	1.49 ± 0.474 (0.313) C:92% T:NA	pCi/L	07/08/21 09:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.50 ± 0.551 (0.789) C:69% T:86%	pCi/L	07/06/21 14:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.99 ± 1.03 (1.10)	pCi/L	07/08/21 14:01	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Sample: BB09306 MW-2 **Lab ID: 92543109020** Collected: 05/18/21 12:06 Received: 06/02/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.248U ± 0.206 (0.344) C:92% T:NA	pCi/L	07/08/21 09:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.472U ± 0.416 (0.843) C:76% T:84%	pCi/L	07/06/21 14:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.720U ± 0.622 (1.19)	pCi/L	07/08/21 14:01	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Sample: BB09307 MW-3 **Lab ID: 92543109021** Collected: 05/18/21 13:28 Received: 06/02/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.191U ± 0.186 (0.333) C:89% T:NA	pCi/L	07/08/21 09:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.558U ± 0.321 (0.561) C:72% T:86%	pCi/L	07/06/21 11:00	15262-20-1	2g
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.749U ± 0.507 (0.894)	pCi/L	07/08/21 14:01	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Sample: BB09308 MW-4 **Lab ID: 92543109022** Collected: 05/18/21 14:29 Received: 06/02/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0898U ± 0.178 (0.412) C:89% T:NA	pCi/L	07/08/21 09:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.644U ± 0.376 (0.681) C:73% T:81%	pCi/L	07/06/21 11:00	15262-20-1	2g
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.734U ± 0.554 (1.09)	pCi/L	07/08/21 14:01	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Sample: BB09309 MW-17H **Lab ID: 92543109023** Collected: 05/17/21 13:55 Received: 06/02/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.301U ± 0.261 (0.487) C:88% T:NA	pCi/L	07/08/21 09:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.34 ± 0.460 (0.634) C:76% T:87%	pCi/L	07/06/21 11:00	15262-20-1	1g
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.64 ± 0.721 (1.12)	pCi/L	07/08/21 14:01	7440-14-4	

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Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Sample: BB09309 MW-17H MS **Lab ID: 92543109024** Collected: 05/17/21 13:55 Received: 06/02/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	107.23 %REC ± NA (NA) C:NA T:NA	pCi/L	07/08/21 09:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	98.19 %REC ± NA (NA) C:NA T:NA	pCi/L	07/06/21 11:00	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Sample: BB09309 MW-17H MSD **Lab ID: 92543109025** Collected: 05/17/21 13:55 Received: 06/02/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	101.93 %REC 5.07 RPD ± NA (NA) C:NA T:NA	pCi/L	07/08/21 09:22	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	114.90 %REC 15.69 RPD ± NA (NA) C:NA T:NA	pCi/L	07/06/21 11:00	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Sample: BB09310 MW-9 **Lab ID: 92543109026** Collected: 05/18/21 09:10 Received: 06/02/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.321U ± 0.231 (0.367) C:88% T:NA	pCi/L	07/08/21 09:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.659U ± 0.382 (0.699) C:74% T:86%	pCi/L	07/06/21 11:00	15262-20-1	2g
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.980U ± 0.613 (1.07)	pCi/L	07/08/21 14:01	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Sample: BB09311 MW-10V **Lab ID: 92543109027** Collected: 05/18/21 10:25 Received: 06/02/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.499U ± 0.343 (0.605) C:88% T:NA	pCi/L	07/08/21 07:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.16 ± 0.421 (0.598) C:72% T:91%	pCi/L	07/06/21 11:01	15262-20-1	1g
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.66 ± 0.764 (1.20)	pCi/L	07/08/21 14:02	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Sample: BB09312 MW-12V **Lab ID: 92543109028** Collected: 05/18/21 12:45 Received: 06/02/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.555 ± 0.321 (0.495) C:87% T:NA	pCi/L	07/08/21 07:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.758 ± 0.360 (0.582) C:69% T:86%	pCi/L	07/06/21 11:01	15262-20-1	2g
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.31 ± 0.681 (1.08)	pCi/L	07/08/21 14:02	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Sample: BB09313 MW-12 **Lab ID: 92543109029** Collected: 05/18/21 14:03 Received: 06/02/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.290U ± 0.272 (0.531) C:85% T:NA	pCi/L	07/08/21 07:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.824 ± 0.364 (0.572) C:72% T:88%	pCi/L	07/06/21 11:01	15262-20-1	2g
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.11 ± 0.636 (1.10)	pCi/L	07/08/21 14:02	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Sample: BB09414 MW-18H **Lab ID: 92543109030** Collected: 05/19/21 09:04 Received: 06/02/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.249U ± 0.246 (0.478) C:83% T:NA	pCi/L	07/08/21 07:57	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.722U ± 0.430 (0.793) C:71% T:85%	pCi/L	07/06/21 14:23	15262-20-1	2g
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.971U ± 0.676 (1.27)	pCi/L	07/08/21 14:02	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Sample: BB09415 MW-11 **Lab ID: 92543109031** Collected: 05/19/21 10:51 Received: 06/02/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.673 ± 0.355 (0.496) C:79% T:NA	pCi/L	07/08/21 07:57	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.476U ± 0.338 (0.636) C:69% T:85%	pCi/L	07/06/21 14:23	15262-20-1	2g
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.15 ± 0.693 (1.13)	pCi/L	07/08/21 14:02	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Sample: BB09416 MW-16 **Lab ID: 92543109032** Collected: 05/19/21 12:01 Received: 06/02/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.213U ± 0.268 (0.566) C:81% T:NA	pCi/L	07/08/21 07:57	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.108U ± 0.316 (0.711) C:71% T:89%	pCi/L	07/06/21 14:23	15262-20-1	2g
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.321U ± 0.584 (1.28)	pCi/L	07/08/21 14:02	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Sample: BB09417 MW-16V **Lab ID: 92543109033** Collected: 05/19/21 13:32 Received: 06/02/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.496 ± 0.294 (0.436) C:83% T:NA	pCi/L	07/08/21 07:47	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.00131U ± 0.379 (0.886) C:73% T:75%	pCi/L	07/06/21 14:23	15262-20-1	2g
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.496U ± 0.673 (1.32)	pCi/L	07/08/21 14:02	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Sample: BB09418 MW-20H **Lab ID: 92543109034** Collected: 05/19/21 10:00 Received: 06/02/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.476U ± 0.304 (0.483) C:82% T:NA	pCi/L	07/08/21 07:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.551U ± 0.393 (0.764) C:76% T:90%	pCi/L	07/06/21 14:24	15262-20-1	2g
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.03U ± 0.697 (1.25)	pCi/L	07/08/21 14:02	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Sample: BB09419 MW-20V **Lab ID: 92543109035** Collected: 05/19/21 10:58 Received: 06/02/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.442U ± 0.294 (0.448) C:80% T:NA	pCi/L	07/08/21 07:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.985 ± 0.449 (0.746) C:73% T:90%	pCi/L	07/06/21 14:24	15262-20-1	2g
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.43 ± 0.743 (1.19)	pCi/L	07/08/21 14:02	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Sample: BB09420 MW-13V **Lab ID: 92543109036** Collected: 05/19/21 12:05 Received: 06/02/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.313U ± 0.253 (0.433) C:84% T:NA	pCi/L	07/08/21 07:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.470U ± 0.351 (0.680) C:72% T:91%	pCi/L	07/06/21 14:24	15262-20-1	2g
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.783U ± 0.604 (1.11)	pCi/L	07/08/21 14:02	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Sample: BB09421 MW-13 **Lab ID: 92543109037** Collected: 05/19/21 13:00 Received: 06/02/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.677 ± 0.345 (0.420) C:79% T:NA	pCi/L	07/08/21 07:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.472U ± 0.355 (0.691) C:72% T:93%	pCi/L	07/06/21 14:24	15262-20-1	2g
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.15 ± 0.700 (1.11)	pCi/L	07/08/21 14:02	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Sample: BB09422 FB-3 **Lab ID: 92543109038** Collected: 05/19/21 13:30 Received: 06/02/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0486U ± 0.183 (0.460) C:84% T:NA	pCi/L	07/08/21 07:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.591U ± 0.343 (0.605) C:74% T:87%	pCi/L	07/06/21 14:24	15262-20-1	2g
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.640U ± 0.526 (1.07)	pCi/L	07/08/21 14:02	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Sample: BB09710 MW-23H **Lab ID: 92543109039** Collected: 05/24/21 12:51 Received: 06/02/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.288U ± 0.270 (0.528) C:83% T:NA	pCi/L	07/08/21 09:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.813 ± 0.438 (0.781) C:76% T:81%	pCi/L	07/06/21 14:24	15262-20-1	2g
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.10U ± 0.708 (1.31)	pCi/L	07/08/21 14:02	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Sample: BB09711 FB-4 **Lab ID: 92543109040** Collected: 05/24/21 13:10 Received: 06/02/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.242U ± 0.240 (0.465) C:87% T:NA	pCi/L	07/08/21 09:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.598U ± 0.414 (0.796) C:77% T:79%	pCi/L	07/06/21 14:24	15262-20-1	2g
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.840U ± 0.654 (1.26)	pCi/L	07/08/21 14:02	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Sample: BB09712 MW-19H **Lab ID: 92543109041** Collected: 05/25/21 08:51 Received: 06/02/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.248U ± 0.270 (0.516) C:84% T:NA	pCi/L	07/08/21 09:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.794 ± 0.406 (0.697) C:72% T:87%	pCi/L	07/07/21 14:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.04U ± 0.676 (1.21)	pCi/L	07/08/21 14:02	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Sample: BB09713 MW-14V **Lab ID: 92543109042** Collected: 05/25/21 09:56 Received: 06/02/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.460U ± 0.304 (0.498) C:84% T:NA	pCi/L	07/08/21 09:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.399U ± 0.319 (0.629) C:74% T:91%	pCi/L	07/07/21 14:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.859U ± 0.623 (1.13)	pCi/L	07/08/21 14:02	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Sample: BB09714 MW-14V DUP **Lab ID: 92543109043** Collected: 05/25/21 09:56 Received: 06/02/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.557 ± 0.293 (0.377) C:87% T:NA	pCi/L	07/08/21 09:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.714 ± 0.375 (0.655) C:74% T:91%	pCi/L	07/07/21 14:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.27 ± 0.668 (1.03)	pCi/L	07/08/21 14:02	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Sample: BB09715 MW-14 **Lab ID: 92543109044** Collected: 05/25/21 10:59 Received: 06/02/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.361U ± 0.270 (0.456) C:83% T:NA	pCi/L	07/08/21 09:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.617U ± 0.357 (0.648) C:74% T:91%	pCi/L	07/07/21 14:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.978U ± 0.627 (1.10)	pCi/L	07/08/21 14:02	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Sample: BB09716 MW-25V **Lab ID: 92543109045** Collected: 05/24/21 13:38 Received: 06/02/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0312U ± 0.162 (0.428) C:78% T:NA	pCi/L	07/08/21 09:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.500U ± 0.334 (0.637) C:72% T:89%	pCi/L	07/07/21 11:15	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.531U ± 0.496 (1.07)	pCi/L	07/08/21 14:02	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Sample: BB09717 MW-25H **Lab ID: 92543109046** Collected: 05/24/21 14:30 Received: 06/02/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.391 ± 0.249 (0.376) C:93% T:NA	pCi/L	07/08/21 09:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.154U ± 0.404 (0.902) C:57% T:83%	pCi/L	07/07/21 11:15	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.545U ± 0.653 (1.28)	pCi/L	07/08/21 14:02	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Sample: BB09718 MW-25H DUP **Lab ID: 92543109047** Collected: 05/24/21 14:30 Received: 06/02/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.494U ± 0.315 (0.501) C:77% T:NA	pCi/L	07/08/21 09:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.406U ± 0.346 (0.690) C:73% T:81%	pCi/L	07/07/21 11:15	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.900U ± 0.661 (1.19)	pCi/L	07/08/21 14:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Sample: BB09719 MW-15V **Lab ID: 92543109048** Collected: 05/25/21 08:55 Received: 06/02/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.911 ± 0.375 (0.398) C:88% T:NA	pCi/L	07/08/21 09:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.807 ± 0.379 (0.641) C:77% T:86%	pCi/L	07/07/21 11:15	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.72 ± 0.754 (1.04)	pCi/L	07/08/21 14:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Sample: BB09720 MW-22H **Lab ID: 92543109049** Collected: 05/25/21 09:45 Received: 06/02/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.492 ± 0.292 (0.433) C:84% T:NA	pCi/L	07/08/21 09:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.766 ± 0.362 (0.611) C:77% T:94%	pCi/L	07/07/21 11:15	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.26 ± 0.654 (1.04)	pCi/L	07/08/21 14:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Sample: BB09721 MW-24H **Lab ID: 92543109050** Collected: 05/25/21 10:55 Received: 06/02/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.369U ± 0.273 (0.442) C:82% T:NA	pCi/L	07/08/21 09:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.326U ± 0.295 (0.595) C:70% T:94%	pCi/L	07/07/21 11:13	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.695U ± 0.568 (1.04)	pCi/L	07/08/21 14:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Sample: BB09722 EB-1 **Lab ID: 92543109051** Collected: 05/25/21 11:30 Received: 06/02/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.204U ± 0.213 (0.409) C:92% T:NA	pCi/L	07/08/21 09:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.206U ± 0.326 (0.707) C:74% T:83%	pCi/L	07/07/21 11:15	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.410U ± 0.539 (1.12)	pCi/L	07/08/21 14:03	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

QC Batch:	452318	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg
Associated Lab Samples:	92543109041, 92543109042, 92543109043, 92543109044, 92543109045, 92543109046, 92543109047, 92543109048, 92543109049, 92543109050, 92543109051		

METHOD BLANK:	2183657	Matrix:	Water
Associated Lab Samples:	92543109041, 92543109042, 92543109043, 92543109044, 92543109045, 92543109046, 92543109047, 92543109048, 92543109049, 92543109050, 92543109051		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.276 ± 0.225 (0.388) C:92% T:NA	pCi/L	07/08/21 09:36	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

QC Batch: 452316

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92543109001, 92543109002, 92543109003, 92543109004, 92543109005, 92543109006, 92543109007, 92543109008, 92543109009, 92543109010, 92543109011, 92543109012, 92543109013, 92543109014, 92543109015, 92543109016, 92543109017, 92543109018, 92543109019, 92543109020

METHOD BLANK: 2183650

Matrix: Water

Associated Lab Samples: 92543109001, 92543109002, 92543109003, 92543109004, 92543109005, 92543109006, 92543109007, 92543109008, 92543109009, 92543109010, 92543109011, 92543109012, 92543109013, 92543109014, 92543109015, 92543109016, 92543109017, 92543109018, 92543109019, 92543109020

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0604 ± 0.234 (0.576) C:94% T:NA	pCi/L	07/07/21 17:41	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

QC Batch: 452675

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92543109013, 92543109014, 92543109015, 92543109041, 92543109042, 92543109043, 92543109044, 92543109045, 92543109046, 92543109047, 92543109048, 92543109049, 92543109050, 92543109051

METHOD BLANK: 2185305

Matrix: Water

Associated Lab Samples: 92543109013, 92543109014, 92543109015, 92543109041, 92543109042, 92543109043, 92543109044, 92543109045, 92543109046, 92543109047, 92543109048, 92543109049, 92543109050, 92543109051

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.763 ± 0.380 (0.662) C:72% T:94%	pCi/L	07/07/21 10:51	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

QC Batch: 452674

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92543109021, 92543109022, 92543109023, 92543109024, 92543109025, 92543109026, 92543109027, 92543109028, 92543109029, 92543109030, 92543109031, 92543109032, 92543109033, 92543109034, 92543109035, 92543109036, 92543109037, 92543109038, 92543109039, 92543109040

METHOD BLANK: 2185302

Matrix: Water

Associated Lab Samples: 92543109021, 92543109022, 92543109023, 92543109024, 92543109025, 92543109026, 92543109027, 92543109028, 92543109029, 92543109030, 92543109031, 92543109032, 92543109033, 92543109034, 92543109035, 92543109036, 92543109037, 92543109038, 92543109039, 92543109040

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	1.14 ± 0.468 (0.735) C:72% T:82%	pCi/L	07/06/21 11:00	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

QC Batch:	452317	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92543109021, 92543109022, 92543109023, 92543109024, 92543109025, 92543109026, 92543109027, 92543109028, 92543109029, 92543109030, 92543109031, 92543109032, 92543109033, 92543109034, 92543109035, 92543109036, 92543109037, 92543109038, 92543109039, 92543109040

METHOD BLANK: 2183654 Matrix: Water

Associated Lab Samples: 92543109021, 92543109022, 92543109023, 92543109024, 92543109025, 92543109026, 92543109027, 92543109028, 92543109029, 92543109030, 92543109031, 92543109032, 92543109033, 92543109034, 92543109035, 92543109036, 92543109037, 92543109038, 92543109039, 92543109040

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0893 ± 0.111 (0.422) C:87% T:NA	pCi/L	07/08/21 09:22	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

QC Batch: 452673

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92543109001, 92543109002, 92543109003, 92543109004, 92543109005, 92543109006, 92543109007, 92543109008, 92543109009, 92543109010, 92543109011, 92543109012, 92543109016, 92543109017, 92543109018, 92543109019, 92543109020

METHOD BLANK: 2185301

Matrix: Water

Associated Lab Samples: 92543109001, 92543109002, 92543109003, 92543109004, 92543109005, 92543109006, 92543109007, 92543109008, 92543109009, 92543109010, 92543109011, 92543109012, 92543109016, 92543109017, 92543109018, 92543109019, 92543109020

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.371 ± 0.340 (0.682) C:74% T:81%	pCi/L	07/06/21 14:24	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

- | | |
|----|--|
| 1g | Analyte detected in Method Blank above RDL of 1.0 pCi/L. Sample activity is greater than associated MDC or RDL and has been reported with narration. |
| 2g | Analyte detected in Method Blank above RDL of 1.0 pCi/L. Sample activity is less than associated MDC or RDL and is reportable without qualification. |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92543109001	BB08943 MW-10	EPA 9315	452316		
92543109002	BB08943 MW-10 MS	EPA 9315	452316		
92543109003	BB08943 MW-10 MSD	EPA 9315	452316		
92543109004	BB08944 MW-8	EPA 9315	452316		
92543109005	BB08945 MW-15	EPA 9315	452316		
92543109006	BB09294 MW-17V	EPA 9315	452316		
92543109007	BB09295 FB-2	EPA 9315	452316		
92543109008	BB09296 MW-8V	EPA 9315	452316		
92543109009	BB09297 MW-7V	EPA 9315	452316		
92543109010	BB09298 MW-7	EPA 9315	452316		
92543109011	BB09299 MW-7 DUP	EPA 9315	452316		
92543109012	BB09300 MW-23V	EPA 9315	452316		
92543109013	BB09301 MW-6	EPA 9315	452316		
92543109014	BB09301 MW-6 MS	EPA 9315	452316		
92543109015	BB09301 MW-6 MSD	EPA 9315	452316		
92543109016	BB09302 FB-1	EPA 9315	452316		
92543109017	BB09303 MW-1V	EPA 9315	452316		
92543109018	BB09304 MW-1V DUP	EPA 9315	452316		
92543109019	BB09305 MW-1	EPA 9315	452316		
92543109020	BB09306 MW-2	EPA 9315	452316		
92543109021	BB09307 MW-3	EPA 9315	452317		
92543109022	BB09308 MW-4	EPA 9315	452317		
92543109023	BB09309 MW-17H	EPA 9315	452317		
92543109024	BB09309 MW-17H MS	EPA 9315	452317		
92543109025	BB09309 MW-17H MSD	EPA 9315	452317		
92543109026	BB09310 MW-9	EPA 9315	452317		
92543109027	BB09311 MW-10V	EPA 9315	452317		
92543109028	BB09312 MW-12V	EPA 9315	452317		
92543109029	BB09313 MW-12	EPA 9315	452317		
92543109030	BB09414 MW-18H	EPA 9315	452317		
92543109031	BB09415 MW-11	EPA 9315	452317		
92543109032	BB09416 MW-16	EPA 9315	452317		
92543109033	BB09417 MW-16V	EPA 9315	452317		
92543109034	BB09418 MW-20H	EPA 9315	452317		
92543109035	BB09419 MW-20V	EPA 9315	452317		
92543109036	BB09420 MW-13V	EPA 9315	452317		
92543109037	BB09421 MW-13	EPA 9315	452317		
92543109038	BB09422 FB-3	EPA 9315	452317		
92543109039	BB09710 MW-23H	EPA 9315	452317		
92543109040	BB09711 FB-4	EPA 9315	452317		
92543109041	BB09712 MW-19H	EPA 9315	452318		
92543109042	BB09713 MW-14V	EPA 9315	452318		
92543109043	BB09714 MW-14V DUP	EPA 9315	452318		
92543109044	BB09715 MW-14	EPA 9315	452318		
92543109045	BB09716 MW-25V	EPA 9315	452318		
92543109046	BB09717 MW-25H	EPA 9315	452318		
92543109047	BB09718 MW-25H DUP	EPA 9315	452318		
92543109048	BB09719 MW-15V	EPA 9315	452318		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BARRY ASH POND WMWBARAP_1320
Pace Project No.: 92543109

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92543109049	BB09720 MW-22H	EPA 9315	452318		
92543109050	BB09721 MW-24H	EPA 9315	452318		
92543109051	BB09722 EB-1	EPA 9315	452318		
92543109001	BB08943 MW-10	EPA 9320	452673		
92543109002	BB08943 MW-10 MS	EPA 9320	452673		
92543109003	BB08943 MW-10 MSD	EPA 9320	452673		
92543109004	BB08944 MW-8	EPA 9320	452673		
92543109005	BB08945 MW-15	EPA 9320	452673		
92543109006	BB09294 MW-17V	EPA 9320	452673		
92543109007	BB09295 FB-2	EPA 9320	452673		
92543109008	BB09296 MW-8V	EPA 9320	452673		
92543109009	BB09297 MW-7V	EPA 9320	452673		
92543109010	BB09298 MW-7	EPA 9320	452673		
92543109011	BB09299 MW-7 DUP	EPA 9320	452673		
92543109012	BB09300 MW-23V	EPA 9320	452673		
92543109013	BB09301 MW-6	EPA 9320	452675		
92543109014	BB09301 MW-6 MS	EPA 9320	452675		
92543109015	BB09301 MW-6 MSD	EPA 9320	452675		
92543109016	BB09302 FB-1	EPA 9320	452673		
92543109017	BB09303 MW-1V	EPA 9320	452673		
92543109018	BB09304 MW-1V DUP	EPA 9320	452673		
92543109019	BB09305 MW-1	EPA 9320	452673		
92543109020	BB09306 MW-2	EPA 9320	452673		
92543109021	BB09307 MW-3	EPA 9320	452674		
92543109022	BB09308 MW-4	EPA 9320	452674		
92543109023	BB09309 MW-17H	EPA 9320	452674		
92543109024	BB09309 MW-17H MS	EPA 9320	452674		
92543109025	BB09309 MW-17H MSD	EPA 9320	452674		
92543109026	BB09310 MW-9	EPA 9320	452674		
92543109027	BB09311 MW-10V	EPA 9320	452674		
92543109028	BB09312 MW-12V	EPA 9320	452674		
92543109029	BB09313 MW-12	EPA 9320	452674		
92543109030	BB09414 MW-18H	EPA 9320	452674		
92543109031	BB09415 MW-11	EPA 9320	452674		
92543109032	BB09416 MW-16	EPA 9320	452674		
92543109033	BB09417 MW-16V	EPA 9320	452674		
92543109034	BB09418 MW-20H	EPA 9320	452674		
92543109035	BB09419 MW-20V	EPA 9320	452674		
92543109036	BB09420 MW-13V	EPA 9320	452674		
92543109037	BB09421 MW-13	EPA 9320	452674		
92543109038	BB09422 FB-3	EPA 9320	452674		
92543109039	BB09710 MW-23H	EPA 9320	452674		
92543109040	BB09711 FB-4	EPA 9320	452674		
92543109041	BB09712 MW-19H	EPA 9320	452675		
92543109042	BB09713 MW-14V	EPA 9320	452675		
92543109043	BB09714 MW-14V DUP	EPA 9320	452675		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BARRY ASH POND WMWBARAP_1320
Pace Project No.: 92543109

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92543109044	BB09715 MW-14	EPA 9320	452675		
92543109045	BB09716 MW-25V	EPA 9320	452675		
92543109046	BB09717 MW-25H	EPA 9320	452675		
92543109047	BB09718 MW-25H DUP	EPA 9320	452675		
92543109048	BB09719 MW-15V	EPA 9320	452675		
92543109049	BB09720 MW-22H	EPA 9320	452675		
92543109050	BB09721 MW-24H	EPA 9320	452675		
92543109051	BB09722 EB-1	EPA 9320	452675		
92543109001	BB08943 MW-10	Total Radium Calculation	455598		
92543109004	BB08944 MW-8	Total Radium Calculation	455598		
92543109005	BB08945 MW-15	Total Radium Calculation	455598		
92543109006	BB09294 MW-17V	Total Radium Calculation	455598		
92543109007	BB09295 FB-2	Total Radium Calculation	455598		
92543109008	BB09296 MW-8V	Total Radium Calculation	455598		
92543109009	BB09297 MW-7V	Total Radium Calculation	455598		
92543109010	BB09298 MW-7	Total Radium Calculation	455598		
92543109011	BB09299 MW-7 DUP	Total Radium Calculation	455598		
92543109012	BB09300 MW-23V	Total Radium Calculation	455598		
92543109013	BB09301 MW-6	Total Radium Calculation	455598		
92543109016	BB09302 FB-1	Total Radium Calculation	455598		
92543109017	BB09303 MW-1V	Total Radium Calculation	455598		
92543109018	BB09304 MW-1V DUP	Total Radium Calculation	455598		
92543109019	BB09305 MW-1	Total Radium Calculation	455598		
92543109020	BB09306 MW-2	Total Radium Calculation	455598		
92543109021	BB09307 MW-3	Total Radium Calculation	455598		
92543109022	BB09308 MW-4	Total Radium Calculation	455598		
92543109023	BB09309 MW-17H	Total Radium Calculation	455598		
92543109026	BB09310 MW-9	Total Radium Calculation	455598		
92543109027	BB09311 MW-10V	Total Radium Calculation	455600		
92543109028	BB09312 MW-12V	Total Radium Calculation	455600		
92543109029	BB09313 MW-12	Total Radium Calculation	455600		
92543109030	BB09414 MW-18H	Total Radium Calculation	455600		
92543109031	BB09415 MW-11	Total Radium Calculation	455600		
92543109032	BB09416 MW-16	Total Radium Calculation	455600		
92543109033	BB09417 MW-16V	Total Radium Calculation	455600		
92543109034	BB09418 MW-20H	Total Radium Calculation	455600		
92543109035	BB09419 MW-20V	Total Radium Calculation	455600		
92543109036	BB09420 MW-13V	Total Radium Calculation	455600		
92543109037	BB09421 MW-13	Total Radium Calculation	455600		
92543109038	BB09422 FB-3	Total Radium Calculation	455600		
92543109039	BB09710 MW-23H	Total Radium Calculation	455600		
92543109040	BB09711 FB-4	Total Radium Calculation	455600		
92543109041	BB09712 MW-19H	Total Radium Calculation	455600		
92543109042	BB09713 MW-14V	Total Radium Calculation	455600		
92543109043	BB09714 MW-14V DUP	Total Radium Calculation	455600		
92543109044	BB09715 MW-14	Total Radium Calculation	455600		
92543109045	BB09716 MW-25V	Total Radium Calculation	455600		
92543109046	BB09717 MW-25H	Total Radium Calculation	455600		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BARRY ASH POND WMWBARAP_1320

Pace Project No.: 92543109

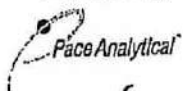
Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92543109047	BB09718 MW-25H DUP	Total Radium Calculation	455601		
92543109048	BB09719 MW-15V	Total Radium Calculation	455601		
92543109049	BB09720 MW-22H	Total Radium Calculation	455601		
92543109050	BB09721 MW-24H	Total Radium Calculation	455601		
92543109051	BB09722 EB-1	Total Radium Calculation	455601		

REPORT OF LABORATORY ANALYSIS

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Pittsburgh Lab Sample Condition Upon Receipt

WO#: 92543109



Client Name: Alabama Power Company

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 5140 3411 2108

LIMS Login

Custody Seal on Cooler/Box Present: yes no Seals Intact: yes no

Thermometer Used T Type of Ice: Wet Blue None

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

Temp should be above freezing to 6°C

Comments:	pH paper Lot#			Date and Initials of person examining contents: <u>6-8-21 JA</u>
	Yes	No	N/A	
Chain of Custody Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3.
Sampler Name & Signature on COC:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4.
Sample Labels match COC: -Includes date/time/ID Matrix: <u>WT</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5. <u>Sample mw-12V date + time unreadable</u> <u>Sample mw-14V Dup date unreadable</u>
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6.
Short Hold Time Analysis (<72hr remaining):	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7.
Rush Turn Around Time Requested:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8.
Sufficient Volume:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.
Correct Containers Used: -Pace Containers Used:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10.
Containers Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11.
Orthophosphate field filtered	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12.
Hex Cr Aqueous sample field filtered	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13.
Organic Samples checked for dechlorination:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15.
All containers have been checked for preservation. exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16. <u>pH 4.2</u>
All containers meet method preservation requirements.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed: <u>JA</u> Date/time of preservation
Headspace in VOA Vials (>6mm):	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Lot # of added preservative
Trip Blank Present:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	17.
Trip Blank Custody Seals Present	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	18.
Rad Samples Screened < 0.5 mrem/hr	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed: <u>JA</u> Date: <u>6-8-21</u> Survey Meter SN: <u>1563</u>

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)
*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

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: ldmidikl@southernco.com
Phone: 205-664-6197 Fax: [blank]
Requested Due Date: 28 days

Section B
Required Project Information:
Report To: Laura Midkiff
Copy To: Brooke Catton & Renee Jamigan
Purchase Order #: APC10700668
Project Name: Plant Barry Ash Pond
Project Number: WNWBARAP_1320

Section C
Invoice Information:
Attention: Laura Midkiff
Company Name: Alabama Power Co.
Address: 744 Highway 87 GSC Bldg #8
Pass Order: CCR
Pass Project Manager: Kevin Herring@pacelab.com
Pass Profile #: 13905

ITEM #	MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analyses Test	Y/N	Requested Analysis Filtrated (Y/N)	Residual Chlorine (Y/N)	ADDITIONAL COMMENTS													
					START DATE	END DATE								RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME								
																				DATE	TIME	DATE	TIME				
1	BB08943	MN-10	GW/G			5/11/2021	8:20	1	Unpreserved H2SO4 HNO3 HCl NaOH Na2S2O3 Methanol Other	X X X X	X		Laura Midkiff APC GTL	5/26/2021	15:30	<i>David Johnson</i>	6-20-21	10:30	TEMP In C	-	Received on Ice (Y/N)	N	Custody Sealed Cooler (Y/N)	Y	Samples Intact (Y/N)	X	
2																											
3																											
4																											
5																											
6																											
7																											
8																											
9																											
10																											
11																											
12																											

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

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
 Required Client Information:

Section B
 Required Project Information:

Section C
 Invoice Information:

Company: Alabama Power Company	Report To: Laura Mickitt	Company Name: Alabama Power Co.
Address: 744 Highway 87 GSC Bldg #8 Calaera, AL 35040	Copy To: Brooke Caton & Renee Jernigan	Address: 744 Highway 87 GSC Bldg #8
Email To: ldmickit@southernco.com	Purchase Order #: APC10700668	Page Quote: CCH
Phone: 205-664-6197 Fax	Project Name: Plant Barry Ash Pond	Page Project Manager: Kevin Herrin@pacelabs.com
Requested Due Date: 28 days	Project Number: WMMBARAP 1320	Page Profile #: 13805
		Requested Analysis Filtered (Y/N) AL

ITEM #	MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyses Test	Y/N	Residual Chlorine (Y/N)	TEMP In C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)								
					START	END	DATE	TIME			H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other								EPA 9315	EPA 9320	Total Radium Sum	Matrix Spike/Matrix Spike D				
1	BBO8944	MW-8	GM/G				5/11/2021	8:04	1	X																						
2	BBO8945	MW-15	GM/G				5/11/2021	11:35	1		X																					
3																																
4																																
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	5/28/2021	15:30	<i>Jerry Adams</i>	5/28/2021	10:30	N Y Y

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

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: Company: Alabama Power Company, Address: 744 Highway 87 GSC Bldg #8, Calera, AL 35040, Email To: lbmicki@southanco.com, Phone: 205-664-6197, Requested Due Date: 28 days

Section B Required Project Information: Report To: Laura Micki, Copy To: Brooke Caton & Renee Jernigan, Purchase Order #: APC10700668, Project Name: Plant Barry Ash Pond, Project Number: VMWBARAP_1320

Section C Invoice Information: Attention: Laura Micki, Company Name: Alabama Power Co., Address: 744 Highway 87 GSC Bldg #8, POC: Kevin Herring, POC Email: kherring@al.com, POC Phone: 205-664-6197, POC Fax: 205-664-6197

ITEM #	MATRIX ID (A-Z, 0-9 / -) Sample Ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyses Test	Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	SAMPLE CONDITIONS																				
				START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol					Other	EPA 9315	EPA 9320	Total Radium Sum	Matrix Spike/Matrix Spike D	TEMP In C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)												
1	BB09294	MW-17V	GW/G	5/18/2021	8:32	1	X																																
2	BB09295	FB-2	GW/G	5/18/2021	8:50	1	X																																
3	BB09296	MW-8V	GW/G	5/18/2021	11:35	1	X																																
4	BB09297	MW-7V	GW/G	5/18/2021	13:12	1	X																																
5	BB09298	MW-7	GW/G	5/18/2021	14:17	1	X																																
6	BB09299	MW-7 Dup	GW/G	5/18/2021	14:17	1	X																																
7																																							
8																																							
9																																							
10																																							
11																																							
12																																							
ADDITIONAL COMMENTS				RELINQUISHED BY / AFFILIATION				DATE	TIME	ACCEPTED BY / AFFILIATION				DATE	TIME	SAMPLE CONDITIONS																							
				Laura Micki/ APC GTL				5/28/2021	15:30	Jim Anderson				6-3-21	10:30	N Y Y Y																							

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

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: Alabama Power Company, 744 Highway 87 GSC Bldg #8, Calera, AL 35004
 Section B Required Project Information: Report To: Laura Midkiff, Project Name: Brooke Catton & Renee Jernigan, Plant Barry Ash Pond
 Section C Invoice Information: Attention: Laura Midkiff, Company Name: Alabama Power Co., Address: 744 Highway 87 GSC Bldg #8, Pace Project Manager: Kevin Herring@pacelibus.com, Pace Profile #: 13905

Regulatory Agency: AL
 State Location: AL
 Regulatory Agency: AL
 State Location: AL

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample IDs must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analytes Test	Y/N	EPA 9315	EPA 9320	Total Radium Sum	Matrix Spike/Matrix Spike D	Residual Chlorine (Y/N)	TEMP In C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)								
				START	END					Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol												Other							
1	BB09300	MW-23V	GWG	5/17/2021	13:22	5/17/2021	13:22	1	X																										
2	BB09301	MW-6	GWG	5/17/2021	14:21	5/17/2021	14:21	3	X																										
3	BB09302	FB-1	GWG	5/17/2021	14:45	5/17/2021	14:45	1	X																										
4	BB09303	MW-1V	GWG	5/18/2021	8:46	5/18/2021	8:46	1	X																										
5	BB09304	MW-1V DUP	GWG	5/18/2021	8:48	5/18/2021	11:14	1	X																										
6	BB09305	MW-1	GWG	5/18/2021	11:14	5/18/2021	12:06	1	X																										
7	BB09306	MW-2	GWG	5/18/2021	12:06	5/18/2021	13:28	1	X																										
8	BB09307	MW-3	GWG	5/18/2021	13:28	5/18/2021	14:29	1	X																										
9	BB09308	MW-4	GWG	5/18/2021	14:29	5/18/2021		1	X																										
10																																			
11																																			
12																																			

RELINQUISHED BY / AFFILIATION: Laura Midkiff APC GTL DATE: 5/28/2021 TIME: 15:30:00 AM
 ACCEPTED BY / AFFILIATION: *Jim Anderson* DATE: 6-2-21 TIME: 10:30
 SAMPLER NAME AND SIGNATURE: _____
 PRINT NAME OF SAMPLER: _____
 SIGNATURE OF SAMPLER: _____ DATE Signed: _____

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: Section B Required Project Information: Section C Invoice Information:

Company: Alabama Power Company	Report To: Laura Mickitt	Attention: Laura Mickitt
Address: 744 Highway 87 GSC Bldg #8 Callena, AL 35040	Copy To: Brooke Catton & Renee Jernigan	Company Name: Alabama Power Co.
Email To: lbmickit@southernco.com	Purchase Order #: APC10700668	Address: 744 Highway 87 GSC Bldg #8
Phone: 205-664-6197 Fax	Project Name: Plant Barry Ash Pond	Pace Quote: CCR
Requested Due Date: 28 days	Project Number: WMBBARAP-1320	Pace Project Manager: Kevin Herring@pacelabs.com
		Pace Profile #: 13805
		Requested Analysis Filtered (Y/N):
		State / Location: AL

ITEM #	MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyses Test	Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)
					START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol				
1	BB09309	MW-17H	GW/G		5/17/2021	13:55	3	X											
2	BB09310	MW-E	GW/G		5/18/2021	9:10	1	X											
3	BB09311	MW-10V	GW/G		5/18/2021	10:25	1	X											
4	BB09312	MW-12V	GW/G		5/19/2021	12:45	1	X											
5	BB09313	MW-12	GW/G		5/19/2021	14:03	1	X											
6																			
7																			
8																			
9																			
10																			
11																			
12																			

RELINQUISHED BY / AFFILIATION: Laura Mickitt/ APC GTL	DATE: 5/28/2021	TIME: 15:30	ACCEPTED BY / AFFILIATION: <i>Ray Anderson</i>	DATE: 6-23-21	TIME: 10:31
SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER:			DATE Signed:		
SIGNATURE of SAMPLER:					

TEMP in C	7
Received on Ice (Y/N)	N
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: 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: 28 days

Section B Required Project Information: Report To: Laura Midkiff Copy To: Brooke Catton & Renee Jernigan Purchase Order #: APC10700668 Project Name: Plant Barry Ash Pond Project Number: WNWBARAP 1320

Section C Invoice Information: Attention: Laura Midkiff Company Name: Alabama Power Co. Address: 744 Highway 87 GSC Bldg #8 Pace Quote: COR Pace Project Manager: Kevin Herndon@pacelabs.com Pace Profile #: 13805 Requested Analysis Filtered (Y/N): All

Page : 6 Of 9

ITEM #	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyses Test	Y/N	Residual Chlorine (Y/N)	SAMPLE CONDITIONS										
			START TIME	END TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Melhanol				Other	EPA 9315	EPA 9320	Total Redium Sum	Matrix Spike/Matrix Spike D	TEMP In C	Recelved on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)		
1	BB09414	GW G	5/19/2021	9:04	1	X										X	X	X	X								
2	BB09415	GW G	5/19/2021	10:51	1	X										X	X	X	X								
3	BB09416	GW G	5/19/2021	12:01	1	X										X	X	X	X								
4	BB09417	GW G	5/19/2021	13:32	1	X										X	X	X	X								
5																											
6																											
7																											
8																											
9																											
10																											
11																											
12																											
RELEASING BY / AFFILIATION: Laura Midkiff / APC GTL			DATE: 5/28/2021	TIME: 15:30	ACCEPTED BY / AFFILIATION: <i>Jerry Anderson</i>			DATE: 6/21/2021	TIME: 10:30																		

SAMPLER NAME AND SIGNATURE	
PRINT NAME OF SAMPLER:	DATE SIGNED:
SIGNATURE OF SAMPLER:	

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: Section B Required Project Information: Section C Invoice Information:

Company: Alabama Power Company	Report To: Laura Midditt	Attention: Laura Midditt
Address: 744 Highway 87 GSC Bldg #8 Catalina, AL 35040	Copy To: Brooke Catton & Renee Jernigan	Company Name: Alabama Power Co.
Email To: lbmddkt@southernco.com	Project Name: Plant Batty Ash Pond	Address: 744 Highway 87 GSC Bldg #8
Phone: 205-664-6197	Project Number: WWSBARAP_1320	Para Quote: COR
Requested Due Date: 28 days	Requested Analyte: Filtered (Y/N)	Para Project Manager: Kevin.Hernand@pacelabs.com
		Para Profile #: 13805
		State / Location: AL

ITEM #	MATRIX One Character per box. (A-Z, 0-9 / - / .) Sample IDs must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyses Test	Y/N	Residual Chlorine (Y/N)	
				START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol				Other
1	BB09418	MW-20H	GWG	5/19/2021	10:00	1	X											
2	BB09419	MW-20V	GWG	5/19/2021	10:58	1	X											
3	BB09420	MW-13V	GWG	5/19/2021	12:05	1	X											
4	BB09421	MW-13	GWG	5/19/2021	13:00	1	X											
5	BB09422	FB-3	GWG	5/19/2021	13:30	1	X											
6																		
7																		
8																		
9																		
10																		
11																		
12																		

REMOVED BY / AFFILIATION	DATE	TIME
Laura Midditt / APC GTL	5/28/2021	15:30
ACCEPTED BY / AFFILIATION	DATE	TIME
<i>Kevin Hernandez</i>	5/28/21	10:50

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)

CHAIN-OF-CUSTODY / Analytical Request Document
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A		Section B		Section C	
Required Client Information:	Required Project Information:	Attention Information:			
Company: Alabama Power Company	Report To: Laura Midkiff	Company Name: Alabama Power Co.	Requestor/Agency		
Address: 744 Highway 87 GSC Bldg #8 Calera, AL 35040	Copy To: Brooke Calton & Renee Jernigan	Address: 744 Highway 87 GSC Bldg #8	Requestor/Agency		
Email To: lbmidkif@southpower.com	Purchase Order #: APCT10700668	Phone: 205-664-6197 Fax	Requestor/Agency		
Requested Due Date: 28 days	Project Name: Plant Barry Ash Pond	Page Profile #: 13905	Requestor/Agency		
	Project Number: WNWBARAP_1320		Requestor/Agency		

ITEM #	MATRIX ID One Character per box. (A-Z, 0-9 /, -,) Sample Ids must be unique	MATRIX Denaturing Water Water Waste Water Sediment Soil Oil Wipe Air Other Trains	CODE DW WT WW SL CL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives Unpreserved H2SO4 HNO3 HCl NaOH Na2S2O3 Methanol Other	Analyses Test	Requested Analysis Filled (Y/N)	Residual Chlorine (Y/N)						
						START	END							DATE	TIME				
						DATE	TIME							DATE	TIME				
1	BB09710	MMW-25H		GW G		5/24/2021	12:51	1	X	X	X	X							
2	BB09711	FB-4		GW G		5/24/2021	13:10	1	X	X	X	X							
3	BB09712	MMW-15H		GW G		5/25/2021	8:31	1	X	X	X	X							
4	BB09713	MMW-14V		GW G		5/25/2021	9:56	1	X	X	X	X							
5	BB09714	MMW-14V DUP		GW G		5/25/2021	9:56	1	X	X	X	X							
6	BB09715	MMW-14		GW G		5/25/2021	10:59	1	X	X	X	X							
7																			
8																			
9																			
10																			
11																			
12																			
ADDITIONAL COMMENTS:				REINQUISHED BY / AFFILIATION:				DATE:		TIME:		ACCEPTED BY / AFFILIATION:		DATE:		TIME:		SAMPLE CONDITIONS:	
				Laura Midkiff / APC GTL				5/26/2021		15:30		Laura Midkiff		6-2-21		10:50		-	

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

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: Alabama Power Company
 Section B Required Project Information: Report To: Laura Mickitt
 Section C Invoice Information: Attention: Laura Mickitt

Company: Alabama Power Company	Report To: Laura Mickitt	Company Name: Alabama Power Co.
Address: 744 Highway 87 GSC Bldg #8 Calera, AL 35040	Copy To: Brooke Catton & Renee Jernigan	Address: 744 Highway 87 GSC Bldg #8
Email To: ladmickit@southemco.com	Purchase Order #: APC10700668	Pass Code: CCR
Phone: 205-684-6197 Fax: []	Project Name: Plant Barry Ash Pond	Pass Project Manager: Kevin Herring@pacalabs.com
Requested Due Date: 28 days	Project Number: WMMWBARAP_1320	Pass Profile #: 13805
		State / Location: AL

ITEM #	SAMPLE ID <small>One Character per box (A-Z, 0-9 / -) Sample IDs must be unique</small>	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyse Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	
				START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol				Other
1	BB09716	MW-25V	GW/G	5/24/2021	13:38	1	X	X	X	X	X	X	X	X	X	X	X	X
2	BB09717	MW-25H	GW/G	5/24/2021	14:30	1	X	X	X	X	X	X	X	X	X	X	X	X
3	BB09718	MW-25H DUP	GW/G	5/24/2021	14:30	1	X	X	X	X	X	X	X	X	X	X	X	X
4	BB09719	MW-15V	GW/G	5/25/2021	8:55	1	X	X	X	X	X	X	X	X	X	X	X	X
5	BB09720	MW-22H	GW/G	5/25/2021	9:45	1	X	X	X	X	X	X	X	X	X	X	X	X
6	BB09721	MW-24H	GW/G	5/25/2021	10:55	1	X	X	X	X	X	X	X	X	X	X	X	X
7	BB09722	EB-1	GW/G	5/25/2021	11:30	1	X	X	X	X	X	X	X	X	X	X	X	X
8																		
9																		
10																		
11																		
12																		

RELINQUISHED BY / AFFILIATION: Laura Mickitt APC GTL	DATE: 5/26/2021	TIME: 15:30	ACCEPTED BY / AFFILIATION: <i>Mr. J. Anderson</i>	DATE: 5/26/21	TIME: 10:30
SAMPLER NAME AND SIGNATURE			DATE Signed:		
PRINT Name of SAMPLER:			DATE Signed:		
SIGNATURE of SAMPLER:			DATE Signed:		

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: CLA
Date: 6/16/2021
Worklist: 61157
Matrix: DW

Method Blank Assessment	
MB Sample ID	2183660
MB concentration:	0.060
MB Counting Uncertainty:	0.233
MB MDC:	0.576
MB Numerical Performance Indicator:	0.51
MB Status vs. Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCSD (Y or N)?	N
LCSD61157	LCSD61157
Count Date:	7/7/2021
Spike ID:	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.036
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.200
Target Conc. (pCi/L, g, F):	12.011
Uncertainty (Calculated):	0.144
Result (pCi/L, g, F):	13.389
LCSD/Counting Uncertainty (pCi/L, g, F):	1.245
Numerical Performance Indicator:	2.08
Status vs Numerical Indicator:	111.06%
Upper % Recovery Limits:	N/A
Lower % Recovery Limits:	Pass
	125%
	75%

Duplicate Sample Assessment	
Sample ID:	See Below ##
Duplicate Sample ID:	
Sample Result (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Sample Result Counting Uncertainty (pCi/L, g, F):	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	
Duplicate Numerical Performance Indicator:	
Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
Duplicate Status vs RPD:	
% RPD Limit:	

Sample Matrix Spike Control Assessment	
Sample Collection Date:	5/11/2021
Sample ID:	92543109001
Sample MS ID:	92543109002
Sample MSD ID:	92543109003
Spike ID:	19-033
Connected Spike Concentration (pCi/mL):	24.036
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	0.20
MS Aliquot (L, g, F):	0.211
MS Target Conc. (pCi/L, g, F):	24.036
MSD Aliquot (L, g, F):	0.205
MSD Target Conc. (pCi/L, g, F):	23.907
MS Spike Uncertainty (calculated):	0.288
MSD Spike Uncertainty (calculated):	0.287
Sample Result Counting Uncertainty (pCi/L, g, F):	0.509
Sample Matrix Spike Result:	0.310
Sample Matrix Spike Duplicate Result:	25.830
Sample Matrix Spike Duplicate Result:	1.642
MS Numerical Performance Indicator:	26.145
MSD Numerical Performance Indicator:	1.701
MS Percent Recovery:	1.485
MSD Percent Recovery:	105.34%
MS Status vs Numerical Indicator:	107.23%
MSD Status vs Numerical Indicator:	N/A
MS Status vs Recovery:	Pass
MSD Status vs Recovery:	Pass
MS/MSD Upper % Recovery Limits:	125%
MS/MSD Lower % Recovery Limits:	75%

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample ID:	92543109001
Sample MS ID:	92543109002
Sample MSD ID:	92543109003
Spike ID:	25.830
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.642
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	26.145
Duplicate Numerical Performance Indicator:	1.701
Duplicate RPD:	-0.261
MS/MSD Duplicate Status vs Numerical Indicator:	1.77%
MS/MSD Duplicate Status vs RPD:	N/A
% RPD Limit:	25%

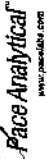
Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

See Below ##

Matrix Spike

Quality Control Sample Performance Assessment



Test: Ra-228
Analyst: VAL
Date: 6/29/2021
Worklist: 61192
Matrix: WT

Method Blank Assessment	
MB Sample ID	2165301
MB concentration:	0.371
MB 2 Sigma CSU:	0.340
MB MDC:	0.862
MB Numerical Performance Indicator:	2.14
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCSD (Y or N)?	N
LCSD61192	LCSD61192
Count Date:	7/6/2021
Spike I.D.:	21-003
Decay Corrected Spike Concentration (pCi/mL):	37.049
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.823
Target Conc. (pCi/L, g, F):	4.489
Uncertainty (Calculated):	0.220
Result (pCi/L, g, F):	3.972
LCSD:CSU 2 Sigma CSU (pCi/L, g, F):	1.006
Numerical Performance Indicator:	-1.00
Percent Recovery:	88.28%
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 (pCi/L, g, F):	
Sample Result 2 Sigma CSU (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	
Duplicate Numerical Performance Indicator:	
Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
Duplicate Status vs RPD:	
% RPD Limit:	

See Below ##

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

Comments:

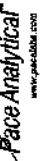
Analyst Must Manually Enter All Fields Highlighted in Yellow.

Sample Matrix Spike Control Assessment	
Sample Collection Date:	MS/MSD 1
Sample I.D.:	5/11/2021
Sample MS I.D.:	92543109001
Sample MSD I.D.:	92543109002
Sample MSD I.D.:	92543109003
Spike I.D.:	21-003
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	37.743
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	0.20
MS Aliquot (L, g, F):	0.833
MS Target Conc. (pCi/L, g, F):	9.063
MSD Aliquot (L, g, F):	0.832
MSD Target Conc. (pCi/L, g, F):	9.077
MS Spike Uncertainty (calculated):	0.444
MSD Spike Uncertainty (calculated):	0.445
Sample Result:	0.610
Sample Matrix Spike Result:	0.399
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	7.957
Sample Matrix Spike Duplicate Result:	1.642
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	8.789
MS Numerical Performance Indicator:	1.785
MSD Numerical Performance Indicator:	-1.926
MS Percent Recovery:	81.06%
MSD Percent Recovery:	90.10%
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.:	MS/MSD 1
Sample MS I.D.:	92543109001
Sample MSD I.D.:	92543109002
Sample MSD I.D.:	92543109003
Spike I.D.:	21-003
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	7.957
Sample Matrix Spike Duplicate Result:	1.642
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	8.789
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.795
Duplicate Numerical Performance Indicator:	-0.671
Duplicate Numerical Performance Indicator:	10.56%
MS/MSD Duplicate Status vs Numerical Indicator:	Pass
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

FOLEMMO

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: JC2
Date: 6/29/2021
Worklist: 61193
Matrix: WT

Method Blank Assessment	
MB Sample ID	2165302
MB concentration:	1.138
MB 2 Sigma CSU:	0.468
MB MDC:	0.735
MB Numerical Performance Indicator:	4.77
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	Fail*

Laboratory Control Sample Assessment		LCS# (Y or N)?	N
Count Date:		LCS61193	LCS061193
Decay Corrected Spike Concentration (pCi/mL):		7/6/2021	
Spike ID:		21-003	
Volume Used (mL):		37.050	
Aliquot Volume (L, g, F):		0.10	
Target Conc. (pCi/L, g, F):		0.825	
Uncertainty (Calculated):		4.491	
Result (pCi/L, g, F):		0.220	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):		4.585	
Numerical Performance Indicator:		1.032	
Status vs Numerical Indicator:		102.09%	
Percent Recovery:		N/A	
Status vs Recovery:		Pass	
Upper % Recovery Limits:		135%	
Lower % Recovery Limits:		60%	

Duplicate Sample Assessment		See Below #
Sample I.D.:		
Duplicate Sample I.D.:		
Sample Result (pCi/L, g, F):		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Duplicate Result (pCi/L, g, F):		
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Avg. sample and/or duplicate results below RL?		
Duplicate Numerical Performance Indicator:		
Duplicate RPD:		
Duplicate Status vs Numerical Indicator:		
Duplicate Status vs RPD:		
% RPD Limit:		

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

Comments:

*If the lowest activity sample in this batch is greater than ten times the blank value, the blank is acceptable otherwise this batch must be reprocessed.

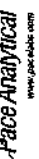
Related Sample 61193

6/27/21

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:		5/17/2021	
Sample I.D.:		92543109023	
Sample MS I.D.:		92543109024	
Sample MSD I.D.:		92543109025	
Spike I.D.:		21-003	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		37.665	
Spike Volume Used in MS (mL):		0.20	
Spike Volume Used in MSD (mL):		0.20	
MS Aliquot (L, g, F):		0.849	
MS Target Conc. (pCi/L, g, F):		8.874	
MSD Aliquot (L, g, F):		0.831	
MSD Target Conc. (pCi/L, g, F):		9.067	
MS Spike Uncertainty (calculated):		0.435	
MSD Spike Uncertainty (calculated):		0.444	
Sample Result:		1.345	
Sample Result 2 Sigma CSU (pCi/L, g, F):		0.460	
Sample Matrix Spike Result:		10.058	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		2.000	
Sample Matrix Spike Duplicate Result:		11.763	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		2.282	
MS Numerical Performance Indicator:		-0.150	
MSD Numerical Performance Indicator:		1.117	
MS Percent Recovery:		98.19%	
MSD Percent Recovery:		114.90%	
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.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Sample Matrix Spike Result:	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
Duplicate Numerical Performance Indicator (Based on the Percent Recoveries):	
MS/MSD Duplicate Status vs Numerical Indicator:	
MS/MSD Duplicate Status vs RPD:	
% RPD Limit:	

Quality Control Sample Performance Assessment



Analyst: *Must Manually Enter All Fields Highlighted in Yellow.*

Test: Ra-228
Analyst: VAL
Date: 6/29/2021
Worklist: 61194
Matrix: WT

Method Blank Assessment	
MB Sample ID	2186305
MB concentration:	0.763
MB 2 Sigma CSU:	0.380
MB MDC:	0.662
MB Numerical Performance Indicator:	3.93
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment		LCSD (Y or N)?	N
Count Date:	7/7/2021	LCSD61194	LCSD61194
Spike I.D.:	21-003		
Decay Corrected Spike Concentration (pCi/mL):	37.038		
Volume Used (mL):	0.10		
Aliquot Volume (L, g, F):	0.806		
Target Conc. (pCi/L, g, F):	4.597		
Uncertainty (Calculated):	0.225		
Result (pCi/L, g, F):	4.263		
LCSD 2 Sigma CSU (pCi/L, g, F):	0.995		
Numerical Performance Indicator:	-0.64		
Percent Recovery:	92.74%		
Status vs Numerical Indicator:	N/A		
Status vs Recovery:	Pass		
Upper % Recovery Limits:	135%		
Lower % Recovery Limits:	60%		

Duplicate Sample Assessment		Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:		
Duplicate Sample I.D.:		
Sample Result (pCi/L, g, F):		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Duplicate Result (pCi/L, g, F):		
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Are sample and/or duplicate results below RL?		
Duplicate Numerical Performance Indicator:		
Duplicate RPD:		
Duplicate Status vs Numerical Indicator:		
Duplicate Status vs RPD:		
% RPD Limit:		

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

Comments:

*The method blank result is below the reporting limit for this analysis and is acceptable.

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:		5/17/2021	
Sample I.D.:		92543109013	
Sample MS I.D.:		92543109014	
Sample MSD I.D.:		92543109015	
Spike I.D.:		21-003	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		37.665	
Spike Volume Used in MS (mL):		0.20	
Spike Volume Used in MSD (mL):		0.20	
MS Aliquot (L, g, F):		0.822	
MS Target Conc. (pCi/L, g, F):		9.168	
MSD Aliquot (L, g, F):		0.861	
MSD Target Conc. (pCi/L, g, F):		8.754	
MS Spike Uncertainty (calculated):		0.449	
MSD Spike Uncertainty (calculated):		0.428	
Sample Result 2 Sigma CSU (pCi/L, g, F):		1.662	
Sample Matrix Spike Result:		0.546	
Sample Matrix Spike Result:		9.273	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		1.859	
Sample Matrix Spike Duplicate Result:		8.194	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		1.661	
MS Numerical Performance Indicator:		-1.336	
MSD Numerical Performance Indicator:		-2.418	
MS Percent Recovery:		83.00%	
MSD Percent Recovery:		74.63%	
MS Status vs Numerical Indicator:		Pass	
MSD Status vs Numerical Indicator:		Warning	
MS Status vs Recovery:		Pass	
MSD Status vs Recovery:		Pass	
MS/MSD Upper % Recovery Limits:		135%	
MS/MSD Lower % Recovery Limits:		60%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	92543109013
Sample MS I.D.:	92543109014
Sample MSD I.D.:	92543109015
Matrix Spike Result:	9.273
Sample Matrix Spike Result:	1.859
Sample Matrix Spike Duplicate Result:	8.194
Sample Matrix Spike Duplicate Result:	1.861
Duplicate Numerical Performance Indicator:	0.848
Duplicate Numerical Performance Indicator:	10.63%
(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:	38%

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Quality Control Sample Performance Assessment

Analyst *Must Manually Enter All Fields Highlighted in Yellow.*



Test: Ra-226
Analyst: CLA
Date: 6/16/2021
Worklist: 61158
Matrix: DW

Method Blank Assessment	
MB Sample ID	2183654
MB Concentration:	-0.069
MB Counting Uncertainty:	0.110
MB MDC:	0.422
MB Numerical Performance Indicator:	-1.59
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCS (Y or N)?	Y
Count Date:	7/8/2021	LCS061158	LCS061158
Spike I.D.:	19-033	7/8/2021	7/8/2021
Decay Corrected Spike Concentration (pCi/mL):	24.036	19-033	19-033
Volume Used (mL):	0.10	24.036	24.036
Aliquot Volume (L, g, F):	0.209	0.10	0.10
Target Conc. (pCi/L, g, F):	11.490	0.201	0.201
Uncertainty (Calculated):	0.138	11.977	11.977
Result (pCi/L, g, F):	13.706	0.144	0.144
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	1.242	12.780	12.780
Numerical Performance Indicator:	3.47	1.222	1.222
Percent Recovery:	119.28%	1.30	1.30
Status vs Numerical Indicator:	N/A	106.79%	106.79%
Status vs Recovery:	Pass	N/A	N/A
Upper % Recovery Limits:	125%	125%	125%
Lower % Recovery Limits:	75%	75%	75%

Duplicate Sample Assessment	
Sample I.D.:	LCS061158
Duplicate Sample I.D.:	LCS061158
Sample Result (pCi/L, g, F):	13.706
Sample Duplicate Result (pCi/L, g, F):	12.790
Sample Result Counting Uncertainty (pCi/L, g, F):	1.242
Sample Duplicate Counting Uncertainty (pCi/L, g, F):	1.222
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	1.029
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 MDL.

Comments:

6/18/21

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:	5/17/2021	MS/MSD 1	MS/MSD 2
Sample I.D.:	92543109023	92543109023	92543109023
Sample MS I.D.:	92543109024	92543109024	92543109024
Sample MSD I.D.:	92543109025	92543109025	92543109025
Spike I.D.:	19-033	19-033	19-033
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	24.037	24.037	24.037
Spike Volume Used in MS (mL):	0.20	0.20	0.20
Spike Volume Used in MSD (mL):	0.199	0.199	0.199
MS Aliquot (L, g, F):	24.133	24.133	24.133
MS Target Conc. (pCi/L, g, F):	0.208	0.208	0.208
MSD Aliquot (L, g, F):	23.134	23.134	23.134
MS Spike Uncertainty (calculated):	0.290	0.290	0.290
MSD Spike Uncertainty (calculated):	0.278	0.278	0.278
Sample Result Counting Uncertainty (pCi/L, g, F):	0.301	0.301	0.301
Sample Matrix Spike Result:	26.178	26.178	26.178
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.752	1.752	1.752
Sample Matrix Spike Duplicate Result:	23.881	23.881	23.881
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.636	1.636	1.636
MS Numerical Performance Indicator:	1.905	1.905	1.905
MSD Numerical Performance Indicator:	0.520	0.520	0.520
MS Percent Recovery:	107.23%	107.23%	107.23%
MSD Percent Recovery:	101.83%	101.83%	101.83%
MS Status vs Numerical Indicator:	N/A	N/A	N/A
MSD Status vs Numerical Indicator:	N/A	N/A	N/A
MS Status vs Recovery:	Pass	Pass	Pass
MSD Status vs Recovery:	Pass	Pass	Pass
MS/MSD Upper % Recovery Limits:	125%	125%	125%
MS/MSD Lower % Recovery Limits:	75%	75%	75%

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	92543109023
Sample MS I.D.:	92543109024
Sample MSD I.D.:	92543109025
Sample Matrix Spike Result:	26.178
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.752
Sample Matrix Spike Duplicate Result:	23.881
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.636
Duplicate Numerical Performance Indicator:	1.878
Duplicate Status vs Numerical Indicator:	5.07%
Duplicate Status vs RPD:	N/A
% RPD Limit:	25%

10/16/21

Quality Control Sample Performance Assessment

Analyst **Must Manually Enter All Fields Highlighted in Yellow.**



Test: RA-226
Analyst: CLA
Date: 6/16/2021
Worklist: 61159
Matrix: DW

Method Blank Assessment	
MB Sample ID	2183657
MB concentration:	0.276
MB Counting Uncertainty:	0.222
MB MDC:	0.388
MB Numerical Performance Indicator:	2.44
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCSD (Y or N)?	LCSD 61159
Count Date:	7/8/2021
Spike I.D.:	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.036
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.205
Target Conc. (pCi/L, g, F):	12.008
Uncertainty (Calculated):	0.144
Result (pCi/L, g, F):	12.787
LCSD Counting Uncertainty (pCi/L, g, F):	1.280
Numerical Performance Indicator:	1.18
Percent Recovery:	106.48%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	125%
Lower % Recovery Limits:	75%

Duplicate Sample Assessment	
Sample I.D.:	LCSD61159
Duplicate Sample I.D.:	LCSD61159
Sample Result (pCi/L, g, F):	12.787
Sample Result Counting Uncertainty (pCi/L, g, F):	1.280
Sample Duplicate Result (pCi/L, g, F):	12.456
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.192
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.371
(Based on the LCSD/LCSD Percent Recoveries) Duplicate RPD:	0.01%
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:

***Batch must be re-prepped due to unacceptable precision.

N/A results - MDC 06/7/8/21

06/18/21
MMP

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

Matrix Spike/Matrix Spike Duplicate Sample Assessment
<p>Sample I.D.:</p> <p>Sample MS I.D.:</p> <p>Sample MSD I.D.:</p> <p>Sample Matrix Spike Result: Matrix Spike Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Result Counting Uncertainty (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:</p>

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

Analytical Report



Sample Group : WMWBARPU_1322

Project/Site : Barry Pooled Upgradient
Bucks, AL 36512

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

Attention : Dustin Brooks & Greg Dyer

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

June 08, 2021

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory on May 13, 2021. All results reported herein conform to the laboratory's most current Quality Assurance Manual. Results marked with an asterisk conform to the most current applicable TNI/NELAC requirements. Exceptions will be noted in the body of the report.

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

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

Sincerely,

Quality Control: **Laura Midkiff**
Digitally signed by Laura Midkiff
DN: cn=Laura Midkiff, o=Alabama Power
Company, ou=Environmental Affairs,
email=lmidkif@southernco.com, c=US
Date: 2021.06.09 10:40:57 -0500

Supervision: **T. Durant Maske**
Digitally signed by T. Durant Maske
DN: cn=T. Durant Maske, o=Alabama
Power Company, ou=Environmental
Affairs, email=tdmaske@southernco.com,
c=US
Date: 2021.06.09 15:37:45 -0500



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

Barry Pooled Upgradient

WMWBARPU_1322

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>
BB08966	698958	WMWBARPU_1322
BB08967	698958	WMWBARPU_1322
BB08968	698958	WMWBARPU_1322
BB08969	698958	WMWBARPU_1322
BB08970	698958	WMWBARPU_1322
BB08971	698958	WMWBARPU_1322
BB08972	698958	WMWBARPU_1322

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

General Quality Control Procedures:

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

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BB08970	Iron	10.15

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

Dissolved Metals ICP

Barry Pooled Upgradient

WMWBARPU_1322

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>
BB08966	698939	WMWBARPU_1322
BB08967	698939	WMWBARPU_1322
BB08968	698939	WMWBARPU_1322
BB08969	698939	WMWBARPU_1322
BB08970	698939	WMWBARPU_1322

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

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each batch passed all acceptance criteria for all requested analytes.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed and all acceptance criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

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

- A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for precision were met.
7. The following sample was diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BB08970	Iron	10.15

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

Total Metals ICPMS

Barry Pooled Upgradient

WMWBARPU_1322

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>
BB08966	698833	WMWBARPU_1322
BB08967	698833	WMWBARPU_1322
BB08968	698833	WMWBARPU_1322
BB08969	698833	WMWBARPU_1322
BB08970	698833	WMWBARPU_1322
BB08971	698833	WMWBARPU_1322
BB08972	698833	WMWBARPU_1322

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.

Matrix Specific Quality Control Procedures:

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

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution factor.
 8. The raw data results are shown with dilution factors included.

Dissolved Metals ICPMS

Barry Pooled Upgradient

WMWBARPU_1322

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>
BB08966	698774	WMWBARPU_1322
BB08967	698774	WMWBARPU_1322
BB08968	698774	WMWBARPU_1322
BB08969	698774	WMWBARPU_1322
BB08970	698774	WMWBARPU_1322

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.

Matrix Specific Quality Control Procedures:

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

- A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution factor.
 8. The raw data results are shown with dilution factors included.

Mercury

Barry Pooled Upgradient

WMWBARPU_1322

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>
BB08966	698558	WMWBARPU_1322
BB08967	698558	WMWBARPU_1322
BB08968	698558	WMWBARPU_1322
BB08969	698558	WMWBARPU_1322
BB08970	698558	WMWBARPU_1322
BB08971	698558	WMWBARPU_1322
BB08972	698558	WMWBARPU_1322

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 batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution factor.
 8. The raw data results are shown with dilution factors included.

TDS

Barry Pooled Upgradient

WMWBARPU_1322

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>
BB08966	698158	WMWBARPU_1322
BB08967	698158	WMWBARPU_1322
BB08968	698158	WMWBARPU_1322
BB08969	698158	WMWBARPU_1322
BB08970	698158	WMWBARPU_1322
BB08971	698158	WMWBARPU_1322
BB08972	698158	WMWBARPU_1322

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

General Quality Control Procedures:

- A Method Blank was analyzed with each batch. All criteria were met.
- All final weights of samples, standards, and blanks agreed within 0.5mg of the previous weight.
- A sample duplicate was analyzed with each batch. RPD/2 was less than 5%.
- A laboratory control sample was analyzed with each batch. All criteria were met.
- Samples were between 2.5mg and 200mg residue.
- All samples with residue <2.5mg had the maximum volume of 150mL filtered. Affected samples are as follows:
 - BB08971
 - BB08972

Anions

Barry Pooled Upgradient

WMWBARPU_1322

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>
BB08966	698494, 698498, & 698616	WMWBARPU_1322
BB08967	698494, 698498, & 698616	WMWBARPU_1322
BB08968	698494, 698498, & 698616	WMWBARPU_1322
BB08969	698494, 698498, & 698616	WMWBARPU_1322
BB08970	698494, 698498, & 698616	WMWBARPU_1322
BB08971	698494, 698498, & 698616	WMWBARPU_1322
BB08972	698494, 698498, & 698616	WMWBARPU_1322

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

General Quality Control Procedures:

- All calibration met criteria for the requested analyte.
- Prior to sample analysis, an initial calibration verification (ICV), and all criteria were met.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

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

- A matrix spike was analyzed with each batch. Acceptance criteria for accuracy were met.
- A sample duplicate was analyzed with each batch. Acceptance criteria for precision were met.

7. All samples were analyzed without dilution.

Alkalinity

Barry Pooled Upgradient

WMWBARPU_1322

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>
BB08966	698959 & 698960	WMWBARPU_1322
BB08967	698959 & 698960	WMWBARPU_1322
BB08968	698959 & 698960	WMWBARPU_1322
BB08969	698959 & 698960	WMWBARPU_1322
BB08970	698959 & 698960	WMWBARPU_1322

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

General Quality Control Procedures:

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

Certificate Of Analysis

Description: Barry Pooled Upgradient - MW-4

Location Code: WMWBARPU
Collected: 5/11/21 09:00
Customer ID:
Submittal Date: 5/13/21 14:16

Laboratory ID Number: BB08966

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	5/24/21 09:00	5/25/21 12:18		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	5/24/21 09:00	5/25/21 12:18		1.015	1.93	mg/L	0.070035	0.406	
* Iron, Total	5/24/21 09:00	5/25/21 12:18		1.015	0.140	mg/L	0.008120	0.0406	
* Lithium, Total	5/24/21 09:00	5/25/21 12:18		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/24/21 09:00	5/25/21 12:18		1.015	2.12	mg/L	0.021315	0.406	
* Sodium, Total	5/24/21 09:00	5/25/21 12:18		1.015	2.46	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Iron, Dissolved	5/24/21 09:00	5/25/21 13:43		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	5/18/21 11:35	5/18/21 17:52		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	5/18/21 11:35	5/18/21 17:52		1.015	0.000217	mg/L	0.000068	0.000203	
* Barium, Total	5/18/21 11:35	5/18/21 17:52		1.015	0.125	mg/L	0.000101	0.000203	
* Beryllium, Total	5/18/21 11:35	5/18/21 17:52		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/18/21 11:35	5/18/21 17:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/18/21 11:35	5/18/21 17:52		1.015	0.00159	mg/L	0.000203	0.001015	
* Cobalt, Total	5/18/21 11:35	5/18/21 17:52		1.015	0.00137	mg/L	0.000068	0.000203	
* Lead, Total	5/18/21 11:35	5/18/21 17:52		1.015	0.000159	mg/L	0.000068	0.000203	J
* Molybdenum, Total	5/18/21 11:35	5/18/21 17:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	5/18/21 11:35	5/18/21 17:52		1.015	1.09	mg/L	0.169505	0.5075	
* Manganese, Total	5/18/21 11:35	5/18/21 17:52		1.015	0.0170	mg/L	0.000068	0.000203	
* Selenium, Total	5/18/21 11:35	5/18/21 17:52		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	5/18/21 11:35	5/18/21 17:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Manganese, Dissolved	5/18/21 13:41	5/18/21 16:08		1.015	0.0157	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: CRB			Preparation Method: EPA 1638				
* Mercury, Total by CVAA	5/19/21 10:43	5/19/21 15:39		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG			Preparation Method: EPA 1638				
Alkalinity, Total as CaCO3	5/17/21 11:55	5/17/21 12:10		1	1.84	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW			Preparation Method: EPA 1638				
* Solids, Dissolved	5/14/21 15:15	5/19/21 13:20		1	46.7	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/8/21

Certificate Of Analysis

Description: Barry Pooled Upgradient - MW-4

Location Code: WMWBARPU
Collected: 5/11/21 09:00
Customer ID:
Submittal Date: 5/13/21 14:16

Laboratory ID Number: BB08966

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	5/17/21 11:55	5/17/21 12:10		1	1.84	mg/L			
Carbonate Alkalinity, (calc.)	5/17/21 11:55	5/17/21 12:10		1	0.00	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	5/17/21 11:05	5/17/21 11:05		1	3.33	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	5/17/21 13:14	5/17/21 13:14		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/19/21 15:38	5/19/21 15:38		1	6.80	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	5/11/21 08:55	5/11/21 08:55			52.69	uS/cm			FA
pH	5/11/21 08:55	5/11/21 08:55			4.67	SU			FA
Temperature	5/11/21 08:55	5/11/21 08:55			21.00	C			FA
Turbidity	5/11/21 08:55	5/11/21 08:55			9.61	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/8/21

Batch QC Summary

Customer Account: WMWBARPU

Sample Date: 5/11/21 09:00

Customer ID:

Delivery Date: 5/13/21 14:16

Description: Barry Pooled Upgradient - MW-4

Laboratory ID Number: BB08966

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB08972	Sodium, Total	mg/L	-0.000422	0.0660	5.00	4.65	4.75	4.68	4.25 to 5.75	93.0	70.0 to 130	2.04	20.0
BB08972	Iron, Total	mg/L	0.000168	0.0176	0.2	0.204	0.206	0.203	0.170 to 0.230	102	70.0 to 130	0.829	20.0
BB08972	Potassium, Total	mg/L	0.0528	0.367	10.0	10.7	10.8	10.5	8.50 to 11.5	107	70.0 to 130	0.573	20.0
BB08970	Iron, Dissolved	mg/L	0.0000185	0.0176	0.2	4.86	4.93	0.211	0.170 to 0.230	75.0	70.0 to 130	1.54	20.0
BB08972	Boron, Total	mg/L	-0.00400	0.0650	1.00	1.00	1.03	1.00	0.850 to 1.15	100	70.0 to 130	2.76	20.0
BB08972	Calcium, Total	mg/L	-0.00843	0.152	5.00	5.21	5.24	5.17	4.25 to 5.75	104	70.0 to 130	0.618	20.0
BB08972	Cobalt, Total	mg/L	-0.0000046	0.000147	0.10	0.103	0.108	0.101	0.0850 to 0.115	103	70.0 to 130	4.73	20.0
BB08972	Mercury, Total by CVAA	mg/L	0.0000493	0.000500	0.004	0.00428	0.00427	0.00425	0.00340 to 0.00460	107	70.0 to 130	0.266	20.0
BB08972	Lead, Total	mg/L	0.0000021	0.000147	0.10	0.0985	0.0981	0.0974	0.0850 to 0.115	98.5	70.0 to 130	0.393	20.0
BB08972	Arsenic, Total	mg/L	0.0000624	0.000147	0.10	0.105	0.106	0.104	0.0850 to 0.115	105	70.0 to 130	0.864	20.0
BB08972	Beryllium, Total	mg/L	0.0000000	0.000880	0.10	0.102	0.0961	0.0943	0.0850 to 0.115	102	70.0 to 130	5.91	20.0
BB08972	Cadmium, Total	mg/L	-0.0000098	0.000147	0.10	0.0999	0.101	0.0954	0.0850 to 0.115	99.9	70.0 to 130	0.846	20.0
BB08972	Molybdenum, Total	mg/L	-0.0000042	0.000147	0.10	0.0997	0.0999	0.0955	0.0850 to 0.115	99.7	70.0 to 130	0.248	20.0
BB08972	Antimony, Total	mg/L	0.000158	0.00100	0.10	0.0987	0.0987	0.0927	0.0850 to 0.115	98.7	70.0 to 130	0.0144	20.0
BB08972	Thallium, Total	mg/L	0.0000029	0.000147	0.10	0.0956	0.0954	0.0954	0.0850 to 0.115	95.6	70.0 to 130	0.215	20.0
BB08972	Lithium, Total	mg/L	0.0000462	0.0154	0.20	0.199	0.202	0.197	0.170 to 0.230	99.3	70.0 to 130	1.77	20.0
BB08972	Selenium, Total	mg/L	-0.0000859	0.00100	0.10	0.100	0.0996	0.100	0.0850 to 0.115	100	70.0 to 130	0.394	20.0
BB08970	Manganese, Dissolved	mg/L	0.0000239	0.000147	0.10	0.271	0.285	0.105	0.0850 to 0.115	92.0	70.0 to 130	5.04	20.0
BB08972	Manganese, Total	mg/L	0.0000090	0.000147	0.10	0.102	0.107	0.102	0.0850 to 0.115	102	70.0 to 130	4.79	20.0
BB08972	Barium, Total	mg/L	-0.0000135	0.000200	0.10	0.106	0.0997	0.0990	0.0850 to 0.115	106	70.0 to 130	6.10	20.0
BB08972	Chromium, Total	mg/L	0.0000142	0.000440	0.10	0.102	0.107	0.100	0.0850 to 0.115	102	70.0 to 130	4.95	20.0
BB08972	Magnesium, Total	mg/L	0.000629	0.0462	5.00	5.07	5.16	5.03	4.25 to 5.75	101	70.0 to 130	1.71	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/8/21

Batch QC Summary

Customer Account: WMWBARPU
Sample Date: 5/11/21 09:00
Customer ID:
Delivery Date: 5/13/21 14:16

Description: Barry Pooled Upgradient - MW-4

Laboratory ID Number: BB08966

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB08972	Sulfate	mg/L	-0.205	1.00	20.0	19.1	-0.429	19.8	18.0 to 22.0	95.5	80.0 to 120	0.00	20.0
BB08972	Fluoride	mg/L	0.0202	0.100	2.50	2.52	0.0235	2.55	2.25 to 2.75	101	80.0 to 120	0.00	20.0
BB08972	Chloride	mg/L	-0.0646	1.00	10.0	9.71	0.212	9.71	9.00 to 11.0	97.1	80.0 to 120	0.00	20.0
BB08970	Alkalinity, Total as CaCO3	mg/L					5.80	51.0	45.0 to 55.0			9.21	10.0
BB08970	Solids, Dissolved	mg/L	1.00	25.0			43.3	56.0	40.0 to 60.0			3.10	5.00

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/8/21

Certificate Of Analysis

Description: Barry Pooled Upgradient - MW-3

Location Code: WMWBARPU
Collected: 5/11/21 10:10
Customer ID:
Submittal Date: 5/13/21 14:16

Laboratory ID Number: BB08967

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	5/24/21 09:00	5/25/21 12:22		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	5/24/21 09:00	5/25/21 12:22		1.015	2.06	mg/L	0.070035	0.406	
* Iron, Total	5/24/21 09:00	5/25/21 12:22		1.015	0.0305	mg/L	0.008120	0.0406	J
* Lithium, Total	5/24/21 09:00	5/25/21 12:22		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/24/21 09:00	5/25/21 12:22		1.015	2.02	mg/L	0.021315	0.406	
* Sodium, Total	5/24/21 09:00	5/25/21 12:22		1.015	2.64	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Iron, Dissolved	5/24/21 09:00	5/25/21 13:46		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	5/18/21 11:35	5/18/21 17:56		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	5/18/21 11:35	5/18/21 17:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	5/18/21 11:35	5/18/21 17:56		1.015	0.0981	mg/L	0.000101	0.000203	
* Beryllium, Total	5/18/21 11:35	5/18/21 17:56		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/18/21 11:35	5/18/21 17:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/18/21 11:35	5/18/21 17:56		1.015	0.00146	mg/L	0.000203	0.001015	
* Cobalt, Total	5/18/21 11:35	5/18/21 17:56		1.015	0.00142	mg/L	0.000068	0.000203	
* Lead, Total	5/18/21 11:35	5/18/21 17:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	5/18/21 11:35	5/18/21 17:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	5/18/21 11:35	5/18/21 17:56		1.015	1.11	mg/L	0.169505	0.5075	
* Manganese, Total	5/18/21 11:35	5/18/21 17:56		1.015	0.0194	mg/L	0.000068	0.000203	
* Selenium, Total	5/18/21 11:35	5/18/21 17:56		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	5/18/21 11:35	5/18/21 17:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Manganese, Dissolved	5/18/21 13:41	5/18/21 16:11		1.015	0.0189	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: CRB			Preparation Method: EPA 1638				
* Mercury, Total by CVAA	5/19/21 10:43	5/19/21 15:42		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG			Preparation Method: EPA 1638				
Alkalinity, Total as CaCO3	5/17/21 11:55	5/17/21 12:10		1	3.60	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW			Preparation Method: EPA 1638				
* Solids, Dissolved	5/14/21 15:15	5/19/21 13:20		1	44.0	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/8/21

Certificate Of Analysis

Description: Barry Pooled Upgradient - MW-3

Location Code: WMWBARPU

Collected: 5/11/21 10:10

Customer ID:

Submittal Date: 5/13/21 14:16

Laboratory ID Number: BB08967

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	5/17/21 11:55	5/17/21 12:10		1	3.60	mg/L			
Carbonate Alkalinity, (calc.)	5/17/21 11:55	5/17/21 12:10		1	0.00	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	5/17/21 11:07	5/17/21 11:07		1	3.42	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	5/17/21 13:15	5/17/21 13:15		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/19/21 15:40	5/19/21 15:40		1	7.73	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	5/11/21 10:07	5/11/21 10:07			52.36	uS/cm			FA
pH	5/11/21 10:07	5/11/21 10:07			4.53	SU			FA
Temperature	5/11/21 10:07	5/11/21 10:07			19.82	C			FA
Turbidity	5/11/21 10:07	5/11/21 10:07			2.7	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/8/21

Batch QC Summary

Customer Account: WMWBARPU
Sample Date: 5/11/21 10:10
Customer ID:
Delivery Date: 5/13/21 14:16

Description: Barry Pooled Upgradient - MW-3

Laboratory ID Number: BB08967

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB08972	Sodium, Total	mg/L	-0.000422	0.0660	5.00	4.65	4.75	4.68	4.25 to 5.75	93.0	70.0 to 130	2.04	20.0
BB08970	Iron, Dissolved	mg/L	0.0000185	0.0176	0.2	4.86	4.93	0.211	0.170 to 0.230	75.0	70.0 to 130	1.54	20.0
BB08972	Boron, Total	mg/L	-0.00400	0.0650	1.00	1.00	1.03	1.00	0.850 to 1.15	100	70.0 to 130	2.76	20.0
BB08972	Barium, Total	mg/L	-0.0000135	0.000200	0.10	0.106	0.0997	0.0990	0.0850 to 0.115	106	70.0 to 130	6.10	20.0
BB08972	Chromium, Total	mg/L	0.0000142	0.000440	0.10	0.102	0.107	0.100	0.0850 to 0.115	102	70.0 to 130	4.95	20.0
BB08972	Magnesium, Total	mg/L	0.000629	0.0462	5.00	5.07	5.16	5.03	4.25 to 5.75	101	70.0 to 130	1.71	20.0
BB08972	Lithium, Total	mg/L	0.0000462	0.0154	0.20	0.199	0.202	0.197	0.170 to 0.230	99.3	70.0 to 130	1.77	20.0
BB08972	Selenium, Total	mg/L	-0.0000859	0.00100	0.10	0.100	0.0996	0.100	0.0850 to 0.115	100	70.0 to 130	0.394	20.0
BB08970	Manganese, Dissolved	mg/L	0.0000239	0.000147	0.10	0.271	0.285	0.105	0.0850 to 0.115	92.0	70.0 to 130	5.04	20.0
BB08972	Manganese, Total	mg/L	0.0000090	0.000147	0.10	0.102	0.107	0.102	0.0850 to 0.115	102	70.0 to 130	4.79	20.0
BB08972	Calcium, Total	mg/L	-0.00843	0.152	5.00	5.21	5.24	5.17	4.25 to 5.75	104	70.0 to 130	0.618	20.0
BB08972	Cobalt, Total	mg/L	-0.0000046	0.000147	0.10	0.103	0.108	0.101	0.0850 to 0.115	103	70.0 to 130	4.73	20.0
BB08972	Mercury, Total by CVAA	mg/L	0.0000493	0.000500	0.004	0.00428	0.00427	0.00425	0.00340 to 0.00460	107	70.0 to 130	0.266	20.0
BB08972	Lead, Total	mg/L	0.0000021	0.000147	0.10	0.0985	0.0981	0.0974	0.0850 to 0.115	98.5	70.0 to 130	0.393	20.0
BB08972	Arsenic, Total	mg/L	0.0000624	0.000147	0.10	0.105	0.106	0.104	0.0850 to 0.115	105	70.0 to 130	0.864	20.0
BB08972	Beryllium, Total	mg/L	0.0000000	0.000880	0.10	0.102	0.0961	0.0943	0.0850 to 0.115	102	70.0 to 130	5.91	20.0
BB08972	Cadmium, Total	mg/L	-0.0000098	0.000147	0.10	0.0999	0.101	0.0954	0.0850 to 0.115	99.9	70.0 to 130	0.846	20.0
BB08972	Molybdenum, Total	mg/L	-0.0000042	0.000147	0.10	0.0997	0.0999	0.0955	0.0850 to 0.115	99.7	70.0 to 130	0.248	20.0
BB08972	Antimony, Total	mg/L	0.000158	0.00100	0.10	0.0987	0.0987	0.0927	0.0850 to 0.115	98.7	70.0 to 130	0.0144	20.0
BB08972	Thallium, Total	mg/L	0.0000029	0.000147	0.10	0.0956	0.0954	0.0954	0.0850 to 0.115	95.6	70.0 to 130	0.215	20.0
BB08972	Iron, Total	mg/L	0.000168	0.0176	0.2	0.204	0.206	0.203	0.170 to 0.230	102	70.0 to 130	0.829	20.0
BB08972	Potassium, Total	mg/L	0.0528	0.367	10.0	10.7	10.8	10.5	8.50 to 11.5	107	70.0 to 130	0.573	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/8/21

Batch QC Summary

Customer Account: WMWBARPU
Sample Date: 5/11/21 10:10
Customer ID:
Delivery Date: 5/13/21 14:16

Description: Barry Pooled Upgradient - MW-3

Laboratory ID Number: BB08967

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB08972	Sulfate	mg/L	-0.205	1.00	20.0	19.1	-0.429	19.8	18.0 to 22.0	95.5	80.0 to 120	0.00	20.0
BB08972	Chloride	mg/L	-0.0646	1.00	10.0	9.71	0.212	9.71	9.00 to 11.0	97.1	80.0 to 120	0.00	20.0
BB08972	Fluoride	mg/L	0.0202	0.100	2.50	2.52	0.0235	2.55	2.25 to 2.75	101	80.0 to 120	0.00	20.0
BB08970	Alkalinity, Total as CaCO3	mg/L					5.80	51.0	45.0 to 55.0			9.21	10.0
BB08970	Solids, Dissolved	mg/L	1.00	25.0			43.3	56.0	40.0 to 60.0			3.10	5.00

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/8/21

Certificate Of Analysis

Description: Barry Pooled Upgradient - MW-3 DUP

Location Code: WMWBARPU
Collected: 5/11/21 10:10
Customer ID:
Submittal Date: 5/13/21 14:16

Laboratory ID Number: BB08968

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	5/24/21 09:00	5/25/21 12:25		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	5/24/21 09:00	5/25/21 12:25		1.015	2.08	mg/L	0.070035	0.406	
* Iron, Total	5/24/21 09:00	5/25/21 12:25		1.015	0.0280	mg/L	0.008120	0.0406	J
* Lithium, Total	5/24/21 09:00	5/25/21 12:25		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/24/21 09:00	5/25/21 12:25		1.015	2.03	mg/L	0.021315	0.406	
* Sodium, Total	5/24/21 09:00	5/25/21 12:25		1.015	2.65	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Iron, Dissolved	5/24/21 09:00	5/25/21 13:50		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	5/18/21 11:35	5/18/21 17:59		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	5/18/21 11:35	5/18/21 17:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	5/18/21 11:35	5/18/21 17:59		1.015	0.0937	mg/L	0.000101	0.000203	
* Beryllium, Total	5/18/21 11:35	5/18/21 17:59		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/18/21 11:35	5/18/21 17:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/18/21 11:35	5/18/21 17:59		1.015	0.00140	mg/L	0.000203	0.001015	
* Cobalt, Total	5/18/21 11:35	5/18/21 17:59		1.015	0.00144	mg/L	0.000068	0.000203	
* Lead, Total	5/18/21 11:35	5/18/21 17:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	5/18/21 11:35	5/18/21 17:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	5/18/21 11:35	5/18/21 17:59		1.015	1.09	mg/L	0.169505	0.5075	
* Manganese, Total	5/18/21 11:35	5/18/21 17:59		1.015	0.0195	mg/L	0.000068	0.000203	
* Selenium, Total	5/18/21 11:35	5/18/21 17:59		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	5/18/21 11:35	5/18/21 17:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Manganese, Dissolved	5/18/21 13:41	5/18/21 16:15		1.015	0.0189	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1			Analyst: CRB		Preparation Method: EPA 1638				
* Mercury, Total by CVAA	5/19/21 10:43	5/19/21 15:44		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B			Analyst: JAG		Preparation Method: EPA 1638				
Alkalinity, Total as CaCO3	5/17/21 11:55	5/17/21 12:10		1	1.36	mg/L		0.1	
Analytical Method: SM 2540C			Analyst: TJW		Preparation Method: EPA 1638				
* Solids, Dissolved	5/14/21 15:15	5/19/21 13:20		1	40.0	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/8/21

Certificate Of Analysis

Description: Barry Pooled Upgradient - MW-3 DUP

Location Code: WMWBARPU
Collected: 5/11/21 10:10
Customer ID:
Submittal Date: 5/13/21 14:16

Laboratory ID Number: BB08968

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	5/17/21 11:55	5/17/21 12:10		1	1.36	mg/L			
Carbonate Alkalinity, (calc.)	5/17/21 11:55	5/17/21 12:10		1	0.00	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	5/17/21 11:08	5/17/21 11:08		1	3.49	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	5/17/21 13:16	5/17/21 13:16		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/19/21 15:41	5/19/21 15:41		1	7.65	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	5/11/21 10:07	5/11/21 10:07			52.36	uS/cm			FA
pH	5/11/21 10:07	5/11/21 10:07			4.53	SU			FA
Temperature	5/11/21 10:07	5/11/21 10:07			19.82	C			FA
Turbidity	5/11/21 10:07	5/11/21 10:07			2.7	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/8/21

Batch QC Summary

Customer Account: WMWBARPU

Sample Date: 5/11/21 10:10

Customer ID:

Delivery Date: 5/13/21 14:16

Description: Barry Pooled Upgradient - MW-3 DUP

Laboratory ID Number: BB08968

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB08972	Barium, Total	mg/L	-0.000135	0.000200	0.10	0.106	0.0997	0.0990	0.0850 to 0.115	106	70.0 to 130	6.10	20.0
BB08972	Chromium, Total	mg/L	0.0000142	0.000440	0.10	0.102	0.107	0.100	0.0850 to 0.115	102	70.0 to 130	4.95	20.0
BB08972	Magnesium, Total	mg/L	0.000629	0.0462	5.00	5.07	5.16	5.03	4.25 to 5.75	101	70.0 to 130	1.71	20.0
BB08970	Iron, Dissolved	mg/L	0.0000185	0.0176	0.2	4.86	4.93	0.211	0.170 to 0.230	75.0	70.0 to 130	1.54	20.0
BB08972	Boron, Total	mg/L	-0.00400	0.0650	1.00	1.00	1.03	1.00	0.850 to 1.15	100	70.0 to 130	2.76	20.0
BB08972	Lithium, Total	mg/L	0.0000462	0.0154	0.20	0.199	0.202	0.197	0.170 to 0.230	99.3	70.0 to 130	1.77	20.0
BB08972	Selenium, Total	mg/L	-0.0000859	0.00100	0.10	0.100	0.0996	0.100	0.0850 to 0.115	100	70.0 to 130	0.394	20.0
BB08972	Arsenic, Total	mg/L	0.0000624	0.000147	0.10	0.105	0.106	0.104	0.0850 to 0.115	105	70.0 to 130	0.864	20.0
BB08972	Beryllium, Total	mg/L	0.0000000	0.000880	0.10	0.102	0.0961	0.0943	0.0850 to 0.115	102	70.0 to 130	5.91	20.0
BB08972	Cadmium, Total	mg/L	-0.0000098	0.000147	0.10	0.0999	0.101	0.0954	0.0850 to 0.115	99.9	70.0 to 130	0.846	20.0
BB08972	Molybdenum, Total	mg/L	-0.0000042	0.000147	0.10	0.0997	0.0999	0.0955	0.0850 to 0.115	99.7	70.0 to 130	0.248	20.0
BB08972	Antimony, Total	mg/L	0.000158	0.00100	0.10	0.0987	0.0987	0.0927	0.0850 to 0.115	98.7	70.0 to 130	0.0144	20.0
BB08972	Thallium, Total	mg/L	0.0000029	0.000147	0.10	0.0956	0.0954	0.0954	0.0850 to 0.115	95.6	70.0 to 130	0.215	20.0
BB08972	Iron, Total	mg/L	0.000168	0.0176	0.2	0.204	0.206	0.203	0.170 to 0.230	102	70.0 to 130	0.829	20.0
BB08972	Potassium, Total	mg/L	0.0528	0.367	10.0	10.7	10.8	10.5	8.50 to 11.5	107	70.0 to 130	0.573	20.0
BB08972	Calcium, Total	mg/L	-0.00843	0.152	5.00	5.21	5.24	5.17	4.25 to 5.75	104	70.0 to 130	0.618	20.0
BB08972	Cobalt, Total	mg/L	-0.0000046	0.000147	0.10	0.103	0.108	0.101	0.0850 to 0.115	103	70.0 to 130	4.73	20.0
BB08972	Mercury, Total by CVAA	mg/L	0.0000493	0.000500	0.004	0.00428	0.00427	0.00425	0.00340 to 0.00460	107	70.0 to 130	0.266	20.0
BB08972	Lead, Total	mg/L	0.0000021	0.000147	0.10	0.0985	0.0981	0.0974	0.0850 to 0.115	98.5	70.0 to 130	0.393	20.0
BB08970	Manganese, Dissolved	mg/L	0.0000239	0.000147	0.10	0.271	0.285	0.105	0.0850 to 0.115	92.0	70.0 to 130	5.04	20.0
BB08972	Manganese, Total	mg/L	0.0000090	0.000147	0.10	0.102	0.107	0.102	0.0850 to 0.115	102	70.0 to 130	4.79	20.0
BB08972	Sodium, Total	mg/L	-0.000422	0.0660	5.00	4.65	4.75	4.68	4.25 to 5.75	93.0	70.0 to 130	2.04	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/8/21

Batch QC Summary

Customer Account: WMWBARPU
Sample Date: 5/11/21 10:10
Customer ID:
Delivery Date: 5/13/21 14:16

Description: Barry Pooled Upgradient - MW-3 DUP

Laboratory ID Number: BB08968

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB08972	Sulfate	mg/L	-0.205	1.00	20.0	19.1	-0.429	19.8	18.0 to 22.0	95.5	80.0 to 120	0.00	20.0
BB08972	Chloride	mg/L	-0.0646	1.00	10.0	9.71	0.212	9.71	9.00 to 11.0	97.1	80.0 to 120	0.00	20.0
BB08970	Alkalinity, Total as CaCO3	mg/L					5.80	51.0	45.0 to 55.0			9.21	10.0
BB08970	Solids, Dissolved	mg/L	1.00	25.0			43.3	56.0	40.0 to 60.0			3.10	5.00
BB08972	Fluoride	mg/L	0.0202	0.100	2.50	2.52	0.0235	2.55	2.25 to 2.75	101	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/8/21

Certificate Of Analysis

Description: Barry Pooled Upgradient - MW-2

Location Code: WMWBARPU
Collected: 5/11/21 11:28
Customer ID:
Submittal Date: 5/13/21 14:16

Laboratory ID Number: BB08969

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	5/24/21 09:00	5/25/21 12:29		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	5/24/21 09:00	5/25/21 12:29		1.015	1.39	mg/L	0.070035	0.406	
* Iron, Total	5/24/21 09:00	5/25/21 12:29		1.015	0.156	mg/L	0.008120	0.0406	
* Lithium, Total	5/24/21 09:00	5/25/21 12:29		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/24/21 09:00	5/25/21 12:29		1.015	2.66	mg/L	0.021315	0.406	
* Sodium, Total	5/24/21 09:00	5/25/21 12:29		1.015	2.14	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Iron, Dissolved	5/24/21 09:00	5/25/21 13:53		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	5/18/21 11:35	5/18/21 18:03		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	5/18/21 11:35	5/18/21 18:03		1.015	0.000136	mg/L	0.000068	0.000203	J
* Barium, Total	5/18/21 11:35	5/18/21 18:03		1.015	0.165	mg/L	0.000101	0.000203	
* Beryllium, Total	5/18/21 11:35	5/18/21 18:03		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/18/21 11:35	5/18/21 18:03		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/18/21 11:35	5/18/21 18:03		1.015	0.00136	mg/L	0.000203	0.001015	
* Cobalt, Total	5/18/21 11:35	5/18/21 18:03		1.015	0.00194	mg/L	0.000068	0.000203	
* Lead, Total	5/18/21 11:35	5/18/21 18:03		1.015	0.000118	mg/L	0.000068	0.000203	J
* Molybdenum, Total	5/18/21 11:35	5/18/21 18:03		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	5/18/21 11:35	5/18/21 18:03		1.015	1.07	mg/L	0.169505	0.5075	
* Manganese, Total	5/18/21 11:35	5/18/21 18:03		1.015	0.0262	mg/L	0.000068	0.000203	
* Selenium, Total	5/18/21 11:35	5/18/21 18:03		1.015	0.000602	mg/L	0.000507	0.001015	J
* Thallium, Total	5/18/21 11:35	5/18/21 18:03		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Manganese, Dissolved	5/18/21 13:41	5/18/21 16:18		1.015	0.0256	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: CRB			Preparation Method: EPA 1638				
* Mercury, Total by CVAA	5/19/21 10:43	5/19/21 15:46		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG			Preparation Method: EPA 1638				
Alkalinity, Total as CaCO3	5/17/21 11:55	5/17/21 12:10		1	2.04	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW			Preparation Method: EPA 1638				
* Solids, Dissolved	5/14/21 15:15	5/19/21 13:20		1	35.3	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/8/21

Certificate Of Analysis

Description: Barry Pooled Upgradient - MW-2

Location Code: WMWBARPU
Collected: 5/11/21 11:28
Customer ID:
Submittal Date: 5/13/21 14:16

Laboratory ID Number: BB08969

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	5/17/21 11:55	5/17/21 12:10		1	2.04	mg/L			
Carbonate Alkalinity, (calc.)	5/17/21 11:55	5/17/21 12:10		1	0.00	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	5/17/21 11:09	5/17/21 11:09		1	2.16	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	5/17/21 13:17	5/17/21 13:17		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/19/21 15:42	5/19/21 15:42		1	7.92	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	5/11/21 11:25	5/11/21 11:25			54.05	uS/cm			FA
pH	5/11/21 11:25	5/11/21 11:25			4.29	SU			FA
Temperature	5/11/21 11:25	5/11/21 11:25			19.55	C			FA
Turbidity	5/11/21 11:25	5/11/21 11:25			7.37	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/8/21

Batch QC Summary

Customer Account: WMWBARPU

Sample Date: 5/11/21 11:28

Customer ID:

Delivery Date: 5/13/21 14:16

Description: Barry Pooled Upgradient - MW-2

Laboratory ID Number: BB08969

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BB08970	Iron, Dissolved	mg/L	0.0000185	0.0176	0.2	4.86	4.93	0.211	0.170 to 0.230	75.0	70.0 to 130	1.54	20.0
BB08972	Boron, Total	mg/L	-0.00400	0.0650	1.00	1.00	1.03	1.00	0.850 to 1.15	100	70.0 to 130	2.76	20.0
BB08972	Barium, Total	mg/L	-0.0000135	0.000200	0.10	0.106	0.0997	0.0990	0.0850 to 0.115	106	70.0 to 130	6.10	20.0
BB08972	Chromium, Total	mg/L	0.0000142	0.000440	0.10	0.102	0.107	0.100	0.0850 to 0.115	102	70.0 to 130	4.95	20.0
BB08972	Magnesium, Total	mg/L	0.000629	0.0462	5.00	5.07	5.16	5.03	4.25 to 5.75	101	70.0 to 130	1.71	20.0
BB08972	Iron, Total	mg/L	0.000168	0.0176	0.2	0.204	0.206	0.203	0.170 to 0.230	102	70.0 to 130	0.829	20.0
BB08972	Potassium, Total	mg/L	0.0528	0.367	10.0	10.7	10.8	10.5	8.50 to 11.5	107	70.0 to 130	0.573	20.0
BB08970	Manganese, Dissolved	mg/L	0.0000239	0.000147	0.10	0.271	0.285	0.105	0.0850 to 0.115	92.0	70.0 to 130	5.04	20.0
BB08972	Manganese, Total	mg/L	0.0000090	0.000147	0.10	0.102	0.107	0.102	0.0850 to 0.115	102	70.0 to 130	4.79	20.0
BB08972	Arsenic, Total	mg/L	0.0000624	0.000147	0.10	0.105	0.106	0.104	0.0850 to 0.115	105	70.0 to 130	0.864	20.0
BB08972	Beryllium, Total	mg/L	0.0000000	0.000880	0.10	0.102	0.0961	0.0943	0.0850 to 0.115	102	70.0 to 130	5.91	20.0
BB08972	Cadmium, Total	mg/L	-0.0000098	0.000147	0.10	0.0999	0.101	0.0954	0.0850 to 0.115	99.9	70.0 to 130	0.846	20.0
BB08972	Molybdenum, Total	mg/L	-0.0000042	0.000147	0.10	0.0997	0.0999	0.0955	0.0850 to 0.115	99.7	70.0 to 130	0.248	20.0
BB08972	Antimony, Total	mg/L	0.000158	0.00100	0.10	0.0987	0.0987	0.0927	0.0850 to 0.115	98.7	70.0 to 130	0.0144	20.0
BB08972	Thallium, Total	mg/L	0.0000029	0.000147	0.10	0.0956	0.0954	0.0954	0.0850 to 0.115	95.6	70.0 to 130	0.215	20.0
BB08972	Calcium, Total	mg/L	-0.00843	0.152	5.00	5.21	5.24	5.17	4.25 to 5.75	104	70.0 to 130	0.618	20.0
BB08972	Cobalt, Total	mg/L	-0.0000046	0.000147	0.10	0.103	0.108	0.101	0.0850 to 0.115	103	70.0 to 130	4.73	20.0
BB08972	Mercury, Total by CVAA	mg/L	0.0000493	0.000500	0.004	0.00428	0.00427	0.00425	0.00340 to 0.00460	107	70.0 to 130	0.266	20.0
BB08972	Lead, Total	mg/L	0.0000021	0.000147	0.10	0.0985	0.0981	0.0974	0.0850 to 0.115	98.5	70.0 to 130	0.393	20.0
BB08972	Lithium, Total	mg/L	0.0000462	0.0154	0.20	0.199	0.202	0.197	0.170 to 0.230	99.3	70.0 to 130	1.77	20.0
BB08972	Selenium, Total	mg/L	-0.0000859	0.00100	0.10	0.100	0.0996	0.100	0.0850 to 0.115	100	70.0 to 130	0.394	20.0
BB08972	Sodium, Total	mg/L	-0.000422	0.0660	5.00	4.65	4.75	4.68	4.25 to 5.75	93.0	70.0 to 130	2.04	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/8/21

Batch QC Summary

Customer Account: WMWBARPU
Sample Date: 5/11/21 11:28
Customer ID:
Delivery Date: 5/13/21 14:16

Description: Barry Pooled Upgradient - MW-2

Laboratory ID Number: BB08969

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB08972	Sulfate	mg/L	-0.205	1.00	20.0	19.1	-0.429	19.8	18.0 to 22.0	95.5	80.0 to 120	0.00	20.0
BB08972	Chloride	mg/L	-0.0646	1.00	10.0	9.71	0.212	9.71	9.00 to 11.0	97.1	80.0 to 120	0.00	20.0
BB08972	Fluoride	mg/L	0.0202	0.100	2.50	2.52	0.0235	2.55	2.25 to 2.75	101	80.0 to 120	0.00	20.0
BB08970	Alkalinity, Total as CaCO3	mg/L					5.80	51.0	45.0 to 55.0			9.21	10.0
BB08970	Solids, Dissolved	mg/L	1.00	25.0			43.3	56.0	40.0 to 60.0			3.10	5.00

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/8/21

Certificate Of Analysis

Description: Barry Pooled Upgradient - MW-1

Location Code: WMWBARPU
Collected: 5/12/21 09:00
Customer ID:
Submittal Date: 5/13/21 14:16

Laboratory ID Number: BB08970

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	5/24/21 09:00	5/25/21 12:32		1.015	0.0841	mg/L	0.030000	0.1015	J
* Calcium, Total	5/24/21 09:00	5/25/21 12:32		1.015	1.34	mg/L	0.070035	0.406	
* Iron, Total	5/24/21 09:00	5/25/21 14:14		10.15	5.14	mg/L	0.08120	0.406	
* Lithium, Total	5/24/21 09:00	5/25/21 12:32		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/24/21 09:00	5/25/21 12:32		1.015	2.39	mg/L	0.021315	0.406	
* Sodium, Total	5/24/21 09:00	5/25/21 12:32		1.015	2.28	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	5/24/21 09:00	5/25/21 14:18		10.15	4.71	mg/L	0.08120	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	5/18/21 11:35	5/18/21 18:06		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	5/18/21 11:35	5/18/21 18:06		1.015	0.000336	mg/L	0.000068	0.000203	
* Barium, Total	5/18/21 11:35	5/18/21 18:06		1.015	0.123	mg/L	0.000101	0.000203	
* Beryllium, Total	5/18/21 11:35	5/18/21 18:06		1.015	0.000694	mg/L	0.000406	0.001015	J
* Cadmium, Total	5/18/21 11:35	5/18/21 18:06		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/18/21 11:35	5/18/21 18:06		1.015	0.000296	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/18/21 11:35	5/18/21 18:06		1.015	0.00611	mg/L	0.000068	0.000203	
* Lead, Total	5/18/21 11:35	5/18/21 18:06		1.015	0.0000979	mg/L	0.000068	0.000203	J
* Molybdenum, Total	5/18/21 11:35	5/18/21 18:06		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	5/18/21 11:35	5/18/21 18:06		1.015	0.484	mg/L	0.169505	0.5075	J
* Manganese, Total	5/18/21 11:35	5/18/21 18:06		1.015	0.179	mg/L	0.000068	0.000203	
* Selenium, Total	5/18/21 11:35	5/18/21 18:06		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	5/18/21 11:35	5/18/21 18:06		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	5/18/21 13:41	5/18/21 16:22		1.015	0.179	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	5/19/21 10:43	5/19/21 15:49		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	5/17/21 11:55	5/17/21 12:10		1	6.36	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	5/14/21 15:15	5/19/21 13:20		1	40.7	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/8/21

Certificate Of Analysis

Description: Barry Pooled Upgradient - MW-1

Location Code: WMWBARPU
Collected: 5/12/21 09:00
Customer ID:
Submittal Date: 5/13/21 14:16

Laboratory ID Number: BB08970

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	5/17/21 11:55	5/17/21 12:10		1	6.36	mg/L			
Carbonate Alkalinity, (calc.)	5/17/21 11:55	5/17/21 12:10		1	0.00	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	5/17/21 11:10	5/17/21 11:10		1	2.18	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	5/17/21 13:19	5/17/21 13:19		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/19/21 15:43	5/19/21 15:43		1	16.3	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	5/12/21 08:58	5/12/21 08:58			65.58	uS/cm			FA
pH	5/12/21 08:58	5/12/21 08:58			4.74	SU			FA
Temperature	5/12/21 08:58	5/12/21 08:58			20.13	C			FA
Turbidity	5/12/21 08:58	5/12/21 08:58			2.91	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/8/21

Batch QC Summary

Customer Account: WMWBARPU

Sample Date: 5/12/21 09:00

Customer ID:

Delivery Date: 5/13/21 14:16

Description: Barry Pooled Upgradient - MW-1

Laboratory ID Number: BB08970

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB08970	Iron, Dissolved	mg/L	0.0000185	0.0176	0.2	4.86	4.93	0.211	0.170 to 0.230	75.0	70.0 to 130	1.54	20.0
BB08972	Boron, Total	mg/L	-0.00400	0.0650	1.00	1.00	1.03	1.00	0.850 to 1.15	100	70.0 to 130	2.76	20.0
BB08972	Barium, Total	mg/L	-0.0000135	0.000200	0.10	0.106	0.0997	0.0990	0.0850 to 0.115	106	70.0 to 130	6.10	20.0
BB08972	Chromium, Total	mg/L	0.0000142	0.000440	0.10	0.102	0.107	0.100	0.0850 to 0.115	102	70.0 to 130	4.95	20.0
BB08972	Magnesium, Total	mg/L	0.000629	0.0462	5.00	5.07	5.16	5.03	4.25 to 5.75	101	70.0 to 130	1.71	20.0
BB08970	Manganese, Dissolved	mg/L	0.0000239	0.000147	0.10	0.271	0.285	0.105	0.0850 to 0.115	92.0	70.0 to 130	5.04	20.0
BB08972	Manganese, Total	mg/L	0.0000090	0.000147	0.10	0.102	0.107	0.102	0.0850 to 0.115	102	70.0 to 130	4.79	20.0
BB08972	Lithium, Total	mg/L	0.0000462	0.0154	0.20	0.199	0.202	0.197	0.170 to 0.230	99.3	70.0 to 130	1.77	20.0
BB08972	Selenium, Total	mg/L	-0.0000859	0.00100	0.10	0.100	0.0996	0.100	0.0850 to 0.115	100	70.0 to 130	0.394	20.0
BB08972	Calcium, Total	mg/L	-0.00843	0.152	5.00	5.21	5.24	5.17	4.25 to 5.75	104	70.0 to 130	0.618	20.0
BB08972	Cobalt, Total	mg/L	-0.0000046	0.000147	0.10	0.103	0.108	0.101	0.0850 to 0.115	103	70.0 to 130	4.73	20.0
BB08972	Mercury, Total by CVAA	mg/L	0.0000493	0.000500	0.004	0.00428	0.00427	0.00425	0.00340 to 0.00460	107	70.0 to 130	0.266	20.0
BB08972	Lead, Total	mg/L	0.0000021	0.000147	0.10	0.0985	0.0981	0.0974	0.0850 to 0.115	98.5	70.0 to 130	0.393	20.0
BB08972	Arsenic, Total	mg/L	0.0000624	0.000147	0.10	0.105	0.106	0.104	0.0850 to 0.115	105	70.0 to 130	0.864	20.0
BB08972	Beryllium, Total	mg/L	0.0000000	0.000880	0.10	0.102	0.0961	0.0943	0.0850 to 0.115	102	70.0 to 130	5.91	20.0
BB08972	Cadmium, Total	mg/L	-0.0000098	0.000147	0.10	0.0999	0.101	0.0954	0.0850 to 0.115	99.9	70.0 to 130	0.846	20.0
BB08972	Molybdenum, Total	mg/L	-0.0000042	0.000147	0.10	0.0997	0.0999	0.0955	0.0850 to 0.115	99.7	70.0 to 130	0.248	20.0
BB08972	Antimony, Total	mg/L	0.000158	0.00100	0.10	0.0987	0.0987	0.0927	0.0850 to 0.115	98.7	70.0 to 130	0.0144	20.0
BB08972	Thallium, Total	mg/L	0.0000029	0.000147	0.10	0.0956	0.0954	0.0954	0.0850 to 0.115	95.6	70.0 to 130	0.215	20.0
BB08972	Sodium, Total	mg/L	-0.000422	0.0660	5.00	4.65	4.75	4.68	4.25 to 5.75	93.0	70.0 to 130	2.04	20.0
BB08972	Iron, Total	mg/L	0.000168	0.0176	0.2	0.204	0.206	0.203	0.170 to 0.230	102	70.0 to 130	0.829	20.0
BB08972	Potassium, Total	mg/L	0.0528	0.367	10.0	10.7	10.8	10.5	8.50 to 11.5	107	70.0 to 130	0.573	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/8/21

Batch QC Summary

Customer Account: WMWBARPU
Sample Date: 5/12/21 09:00
Customer ID:
Delivery Date: 5/13/21 14:16

Description: Barry Pooled Upgradient - MW-1

Laboratory ID Number: BB08970

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB08972	Sulfate	mg/L	-0.205	1.00	20.0	19.1	-0.429	19.8	18.0 to 22.0	95.5	80.0 to 120	0.00	20.0
BB08972	Fluoride	mg/L	0.0202	0.100	2.50	2.52	0.0235	2.55	2.25 to 2.75	101	80.0 to 120	0.00	20.0
BB08972	Chloride	mg/L	-0.0646	1.00	10.0	9.71	0.212	9.71	9.00 to 11.0	97.1	80.0 to 120	0.00	20.0
BB08970	Alkalinity, Total as CaCO3	mg/L					5.80	51.0	45.0 to 55.0			9.21	10.0
BB08970	Solids, Dissolved	mg/L	1.00	25.0			43.3	56.0	40.0 to 60.0			3.10	5.00

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 6/8/21

Certificate Of Analysis

Description: Barry Pooled Upgradient Field Blank-1

Location Code: WMWBARPUFB
Collected: 5/12/21 09:45
Customer ID:
Submittal Date: 5/13/21 14:16

Laboratory ID Number: BB08971

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	5/24/21 09:00	5/25/21 12:35		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	5/24/21 09:00	5/25/21 12:35		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	5/24/21 09:00	5/25/21 12:35		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	5/24/21 09:00	5/25/21 12:35		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/24/21 09:00	5/25/21 12:35		1.015	Not Detected	mg/L	0.021315	0.406	U
* Sodium, Total	5/24/21 09:00	5/25/21 12:35		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	5/18/21 11:35	5/18/21 18:10		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	5/18/21 11:35	5/18/21 18:10		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	5/18/21 11:35	5/18/21 18:10		1.015	Not Detected	mg/L	0.000101	0.000203	U
* Beryllium, Total	5/18/21 11:35	5/18/21 18:10		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/18/21 11:35	5/18/21 18:10		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/18/21 11:35	5/18/21 18:10		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	5/18/21 11:35	5/18/21 18:10		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	5/18/21 11:35	5/18/21 18:10		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	5/18/21 11:35	5/18/21 18:10		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/18/21 11:35	5/18/21 18:10		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	5/18/21 11:35	5/18/21 18:10		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	5/18/21 11:35	5/18/21 18:10		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	5/18/21 11:35	5/18/21 18:10		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1			Analyst: CRB						
* Mercury, Total by CVAA	5/19/21 10:43	5/19/21 15:51		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	5/14/21 15:15	5/19/21 13:20		1	Not Detected	mg/L		25	U
Analytical Method: SM4500CI E			Analyst: JCC						
* Chloride	5/17/21 11:11	5/17/21 11:11		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	5/17/21 13:20	5/17/21 13:20		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011			Analyst: JCC						
* Sulfate	5/19/21 15:44	5/19/21 15:44		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Batch QC Summary

Customer Account: WMWBARPUFB

Sample Date: 5/12/21 09:45

Customer ID:

Delivery Date: 5/13/21 14:16

Description: Barry Pooled Upgradient Field Blank-1

Laboratory ID Number: BB08971

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB08972	Boron, Total	mg/L	-0.00400	0.0650	1.00	1.00	1.03	1.00	0.850 to 1.15	100	70.0 to 130	2.76	20.0
BB08972	Sodium, Total	mg/L	-0.000422	0.0660	5.00	4.65	4.75	4.68	4.25 to 5.75	93.0	70.0 to 130	2.04	20.0
BB08972	Barium, Total	mg/L	-0.0000135	0.000200	0.10	0.106	0.0997	0.0990	0.0850 to 0.115	106	70.0 to 130	6.10	20.0
BB08972	Chromium, Total	mg/L	0.0000142	0.000440	0.10	0.102	0.107	0.100	0.0850 to 0.115	102	70.0 to 130	4.95	20.0
BB08972	Magnesium, Total	mg/L	0.000629	0.0462	5.00	5.07	5.16	5.03	4.25 to 5.75	101	70.0 to 130	1.71	20.0
BB08972	Arsenic, Total	mg/L	0.0000624	0.000147	0.10	0.105	0.106	0.104	0.0850 to 0.115	105	70.0 to 130	0.864	20.0
BB08972	Beryllium, Total	mg/L	0.0000000	0.000880	0.10	0.102	0.0961	0.0943	0.0850 to 0.115	102	70.0 to 130	5.91	20.0
BB08972	Cadmium, Total	mg/L	-0.0000098	0.000147	0.10	0.0999	0.101	0.0954	0.0850 to 0.115	99.9	70.0 to 130	0.846	20.0
BB08972	Molybdenum, Total	mg/L	-0.0000042	0.000147	0.10	0.0997	0.0999	0.0955	0.0850 to 0.115	99.7	70.0 to 130	0.248	20.0
BB08972	Antimony, Total	mg/L	0.000158	0.00100	0.10	0.0987	0.0987	0.0927	0.0850 to 0.115	98.7	70.0 to 130	0.0144	20.0
BB08972	Thallium, Total	mg/L	0.0000029	0.000147	0.10	0.0956	0.0954	0.0954	0.0850 to 0.115	95.6	70.0 to 130	0.215	20.0
BB08972	Calcium, Total	mg/L	-0.00843	0.152	5.00	5.21	5.24	5.17	4.25 to 5.75	104	70.0 to 130	0.618	20.0
BB08972	Cobalt, Total	mg/L	-0.0000046	0.000147	0.10	0.103	0.108	0.101	0.0850 to 0.115	103	70.0 to 130	4.73	20.0
BB08972	Mercury, Total by CVAA	mg/L	0.0000493	0.000500	0.004	0.00428	0.00427	0.00425	0.00340 to 0.00460	107	70.0 to 130	0.266	20.0
BB08972	Lead, Total	mg/L	0.0000021	0.000147	0.10	0.0985	0.0981	0.0974	0.0850 to 0.115	98.5	70.0 to 130	0.393	20.0
BB08972	Manganese, Total	mg/L	0.0000090	0.000147	0.10	0.102	0.107	0.102	0.0850 to 0.115	102	70.0 to 130	4.79	20.0
BB08972	Lithium, Total	mg/L	0.0000462	0.0154	0.20	0.199	0.202	0.197	0.170 to 0.230	99.3	70.0 to 130	1.77	20.0
BB08972	Selenium, Total	mg/L	-0.0000859	0.00100	0.10	0.100	0.0996	0.100	0.0850 to 0.115	100	70.0 to 130	0.394	20.0
BB08972	Iron, Total	mg/L	0.000168	0.0176	0.2	0.204	0.206	0.203	0.170 to 0.230	102	70.0 to 130	0.829	20.0
BB08972	Potassium, Total	mg/L	0.0528	0.367	10.0	10.7	10.8	10.5	8.50 to 11.5	107	70.0 to 130	0.573	20.0

Comments:

Batch QC Summary

Customer Account: WMWBARPUFB

Sample Date: 5/12/21 09:45

Customer ID:

Delivery Date: 5/13/21 14:16

Description: Barry Pooled Upgradient Field Blank-1

Laboratory ID Number: BB08971

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB08972	Sulfate	mg/L	-0.205	1.00	20.0	19.1	-0.429	19.8	18.0 to 22.0	95.5	80.0 to 120	0.00	20.0
BB08970	Solids, Dissolved	mg/L	1.00	25.0			43.3	56.0	40.0 to 60.0			3.10	5.00
BB08972	Fluoride	mg/L	0.0202	0.100	2.50	2.52	0.0235	2.55	2.25 to 2.75	101	80.0 to 120	0.00	20.0
BB08972	Chloride	mg/L	-0.0646	1.00	10.0	9.71	0.212	9.71	9.00 to 11.0	97.1	80.0 to 120	0.00	20.0

Comments:

Certificate Of Analysis

Description: Barry Pooled Upgradient Equipment Blank-1

Location Code: WMWBARPUEB
Collected: 5/12/21 10:00
Customer ID:
Submittal Date: 5/13/21 14:16

Laboratory ID Number: BB08972

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	5/24/21 09:00	5/25/21 12:39		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	5/24/21 09:00	5/25/21 12:39		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	5/24/21 09:00	5/25/21 12:39		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	5/24/21 09:00	5/25/21 12:39		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/24/21 09:00	5/25/21 12:39		1.015	Not Detected	mg/L	0.021315	0.406	U
* Sodium, Total	5/24/21 09:00	5/25/21 12:39		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	5/18/21 11:35	5/18/21 18:14		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	5/18/21 11:35	5/18/21 18:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	5/18/21 11:35	5/18/21 18:14		1.015	Not Detected	mg/L	0.000101	0.000203	U
* Beryllium, Total	5/18/21 11:35	5/18/21 18:14		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/18/21 11:35	5/18/21 18:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/18/21 11:35	5/18/21 18:14		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	5/18/21 11:35	5/18/21 18:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	5/18/21 11:35	5/18/21 18:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	5/18/21 11:35	5/18/21 18:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/18/21 11:35	5/18/21 18:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	5/18/21 11:35	5/18/21 18:14		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	5/18/21 11:35	5/18/21 18:14		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	5/18/21 11:35	5/18/21 18:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	5/19/21 10:43	5/19/21 15:53		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	5/14/21 15:15	5/19/21 13:20		1	Not Detected	mg/L		25	U
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	5/17/21 11:13	5/17/21 11:13		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	5/17/21 13:21	5/17/21 13:21		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/19/21 15:46	5/19/21 15:46		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Batch QC Summary

Customer Account: WMWBARPUEB

Sample Date: 5/12/21 10:00

Customer ID:

Delivery Date: 5/13/21 14:16

Description: Barry Pooled Upgradient Equipment Blank-1

Laboratory ID Number: BB08972

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB08972	Boron, Total	mg/L	-0.00400	0.0650	1.00	1.00	1.03	1.00	0.850 to 1.15	100	70.0 to 130	2.76	20.0
BB08972	Sodium, Total	mg/L	-0.000422	0.0660	5.00	4.65	4.75	4.68	4.25 to 5.75	93.0	70.0 to 130	2.04	20.0
BB08972	Barium, Total	mg/L	-0.0000135	0.000200	0.10	0.106	0.0997	0.0990	0.0850 to 0.115	106	70.0 to 130	6.10	20.0
BB08972	Chromium, Total	mg/L	0.0000142	0.000440	0.10	0.102	0.107	0.100	0.0850 to 0.115	102	70.0 to 130	4.95	20.0
BB08972	Magnesium, Total	mg/L	0.000629	0.0462	5.00	5.07	5.16	5.03	4.25 to 5.75	101	70.0 to 130	1.71	20.0
BB08972	Calcium, Total	mg/L	-0.00843	0.152	5.00	5.21	5.24	5.17	4.25 to 5.75	104	70.0 to 130	0.618	20.0
BB08972	Cobalt, Total	mg/L	-0.0000046	0.000147	0.10	0.103	0.108	0.101	0.0850 to 0.115	103	70.0 to 130	4.73	20.0
BB08972	Mercury, Total by CVAA	mg/L	0.0000493	0.000500	0.004	0.00428	0.00427	0.00425	0.00340 to 0.00460	107	70.0 to 130	0.266	20.0
BB08972	Lead, Total	mg/L	0.0000021	0.000147	0.10	0.0985	0.0981	0.0974	0.0850 to 0.115	98.5	70.0 to 130	0.393	20.0
BB08972	Iron, Total	mg/L	0.000168	0.0176	0.2	0.204	0.206	0.203	0.170 to 0.230	102	70.0 to 130	0.829	20.0
BB08972	Potassium, Total	mg/L	0.0528	0.367	10.0	10.7	10.8	10.5	8.50 to 11.5	107	70.0 to 130	0.573	20.0
BB08972	Lithium, Total	mg/L	0.0000462	0.0154	0.20	0.199	0.202	0.197	0.170 to 0.230	99.3	70.0 to 130	1.77	20.0
BB08972	Selenium, Total	mg/L	-0.0000859	0.00100	0.10	0.100	0.0996	0.100	0.0850 to 0.115	100	70.0 to 130	0.394	20.0
BB08972	Manganese, Total	mg/L	0.0000090	0.000147	0.10	0.102	0.107	0.102	0.0850 to 0.115	102	70.0 to 130	4.79	20.0
BB08972	Arsenic, Total	mg/L	0.0000624	0.000147	0.10	0.105	0.106	0.104	0.0850 to 0.115	105	70.0 to 130	0.864	20.0
BB08972	Beryllium, Total	mg/L	0.0000000	0.000880	0.10	0.102	0.0961	0.0943	0.0850 to 0.115	102	70.0 to 130	5.91	20.0
BB08972	Cadmium, Total	mg/L	-0.0000098	0.000147	0.10	0.0999	0.101	0.0954	0.0850 to 0.115	99.9	70.0 to 130	0.846	20.0
BB08972	Molybdenum, Total	mg/L	-0.0000042	0.000147	0.10	0.0997	0.0999	0.0955	0.0850 to 0.115	99.7	70.0 to 130	0.248	20.0
BB08972	Antimony, Total	mg/L	0.000158	0.00100	0.10	0.0987	0.0987	0.0927	0.0850 to 0.115	98.7	70.0 to 130	0.0144	20.0
BB08972	Thallium, Total	mg/L	0.0000029	0.000147	0.10	0.0956	0.0954	0.0954	0.0850 to 0.115	95.6	70.0 to 130	0.215	20.0

Comments:

Batch QC Summary

Customer Account: WMWBARPUEB

Sample Date: 5/12/21 10:00

Customer ID:

Delivery Date: 5/13/21 14:16

Description: Barry Pooled Upgradient Equipment Blank-1

Laboratory ID Number: BB08972

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB08972	Sulfate	mg/L	-0.205	1.00	20.0	19.1	-0.429	19.8	18.0 to 22.0	95.5	80.0 to 120	0.00	20.0
BB08970	Solids, Dissolved	mg/L	1.00	25.0			43.3	56.0	40.0 to 60.0			3.10	5.00
BB08972	Fluoride	mg/L	0.0202	0.100	2.50	2.52	0.0235	2.55	2.25 to 2.75	101	80.0 to 120	0.00	20.0
BB08972	Chloride	mg/L	-0.0646	1.00	10.0	9.71	0.212	9.71	9.00 to 11.0	97.1	80.0 to 120	0.00	20.0

Comments:

Definitions

Abbreviation	Description
DF	Dilution Factor
LCS	Lab Control Sample
LFM	Lab Fortified Matrix
MB	Method Blank
MDL	Method Detection Limit; minimum concentration of an analyte that can be determined with 99% confidence that the concentration is greater than zero.
MS	Matrix Spike
MSD	Matrix Spike Duplicate
Prec	Precision (% RPD)
Q	Qualifier; comment used to note deviations or additional information associated with analytical results.
QC	Quality Control
Rec	Recovery of Matrix Spike
RL	Reporting Limit; lowest concentration at which an analyte can be quantitatively measured.
Vio Spec	Violation Specification; regulatory limit which has been exceeded by the sample analyzed.

Qualifier	Description
FA	Field results were reviewed by the Water Field Group.
J	Reported value is an estimate because concentration is less than reporting limit.
U	Compound was analyzed, but not detected.



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete

Outside Lab

Lab Complete

Lab ETA

Requested Complete Date Site Representative Collector	Routine	Results To Requested By Location	Dustin Brooks, Greg Dyer
	Tamala Davis		Greg Dyer
	TJ Daugherty		Barry Pooled Upgradient

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	Anions	250 mL	7	N/A	N/A
	2	Diss Metals	500 mL	4	TDS	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-4	05/11/2021	09:00	6	Groundwater		BB08966
MW-3	05/11/2021	10:10	6	Groundwater		BB08967
MW-3 Dup	05/11/2021	10:10	6	Sample Duplicate		BB08968
MW-2	05/11/2021	11:28	6	Groundwater		BB08969
MW-1	05/12/2021	09:00	6	Groundwater		BB08970
FB-1	05/12/2021	09:45	4	Field Blank		BB08971
EB-1	05/12/2021	10:00	4	Equipment Blank		BB08972

Relinquished By	Received By	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	05/13/2021 13:34

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-20009-2-1	
Sample Event	1322	
Cooler Temp	0.0 degrees C	
Thermometer ID	5408-27568-2-2	
pH Strip ID	8206-45805-10-9	

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date Site Representative Collector	Routine	Results To Requested By Location	Dustin Brooks, Greg Dyer
	Tamala Davis		Greg Dyer
	TJ Daugherty		Barry Pooled Upgradient

Bottles	1 Radium	1 L	3 N/A	N/A	5 N/A	N/A	7 N/A	N/A
	2 N/A	N/A	4 N/A	N/A	6 N/A	N/A	8 N/A	N/A

Comments: Radium MS/MSD @ MW-1

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-4	05/11/2021	09:00	1	Groundwater		BB08973
MW-3	05/11/2021	10:10	1	Groundwater		BB08974
MW-3 Dup	05/11/2021	10:10	1	Sample Duplicate		BB08975
MW-2	05/11/2021	11:28	1	Groundwater		BB08976
MW-1	05/12/2021	09:00	3	Groundwater		BB08977
FB-1	05/12/2021	09:45	1	Field Blank		BB08978
EB-1	05/12/2021	10:00	1	Equipment Blank		BB08979

Relinquished By	Received By	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	05/13/2021 13:34

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-20009-2-1	
Sample Event	1322	
Cooler Temp	N/A	
Thermometer ID	N/A	
pH Strip ID	8206-45805-10-9	

Bottles/Pre-Preserved Bottles are provided by the GTL

June 22, 2021

Laura Midkiff
Alabama Power
744 Highway 87
GSC #8
Calera, AL 35040

RE: Project: BARRY POOLED WMWBARPU_1322
Pace Project No.: 92540467

Dear Laura Midkiff:

Enclosed are the analytical results for sample(s) received by the laboratory on May 18, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

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

Sincerely,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Brooke Caton, Alabama Power
Renee Jernigan, Alabama Power



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BARRY POOLED WMWBARPU_1322
Pace Project No.: 92540467

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BARRY POOLED WMWBARPU_1322

Pace Project No.: 92540467

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92540467001	BB08973 MW-4	Water	05/11/21 09:00	05/18/21 10:00
92540467002	BB08974 MW-3	Water	05/11/21 10:10	05/18/21 10:00
92540467003	BB08975 MW-3 DUP	Water	05/11/21 10:10	05/18/21 10:00
92540467004	BB08976 MW-2	Water	05/11/21 11:28	05/18/21 10:00
92540467005	BB08977 MW-1	Water	05/12/21 09:00	05/18/21 10:00
92540467006	BB08977 MW-1 MS	Water	05/12/21 09:00	05/18/21 10:00
92540467007	BB08977 MW-1 MSD	Water	05/12/21 09:00	05/18/21 10:00
92540467008	BB08978 FB-1	Water	05/12/21 09:45	05/18/21 10:00
92540467009	BB08979 EB-1	Water	05/12/21 10:00	05/18/21 10:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BARRY POOLED WMWBARPU_1322
Pace Project No.: 92540467

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92540467001	BB08973 MW-4	EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92540467002	BB08974 MW-3	EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92540467003	BB08975 MW-3 DUP	EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92540467004	BB08976 MW-2	EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92540467005	BB08977 MW-1	EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92540467006	BB08977 MW-1 MS	EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
92540467007	BB08977 MW-1 MSD	EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
92540467008	BB08978 FB-1	EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92540467009	BB08979 EB-1	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: BARRY POOLED WMWBARPU_1322

Pace Project No.: 92540467

Method: EPA 9315

Description: 9315 Total Radium

Client: Alabama Power

Date: June 22, 2021

General Information:

9 samples were analyzed for EPA 9315 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: BARRY POOLED WMWBARPU_1322

Pace Project No.: 92540467

Method: EPA 9320

Description: 9320 Radium 228

Client: Alabama Power

Date: June 22, 2021

General Information:

9 samples were analyzed for EPA 9320 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: BARRY POOLED WMWBARPU_1322

Pace Project No.: 92540467

Method: Total Radium Calculation

Description: Total Radium 228+226

Client: Alabama Power

Date: June 22, 2021

General Information:

7 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: BARRY POOLED WMWBARPU_1322

Pace Project No.: 92540467

Sample: BB08973 MW-4 **Lab ID: 92540467001** Collected: 05/11/21 09:00 Received: 05/18/21 10:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.398 ± 0.260 (0.370) C:88% T:NA	pCi/L	06/16/21 17:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.571U ± 0.378 (0.716) C:75% T:85%	pCi/L	06/21/21 11:00	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.969U ± 0.638 (1.09)	pCi/L	06/22/21 15:45	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY POOLED WMWBARPU_1322

Pace Project No.: 92540467

Sample: BB08974 MW-3 **Lab ID: 92540467002** Collected: 05/11/21 10:10 Received: 05/18/21 10:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.293U ± 0.229 (0.375) C:89% T:NA	pCi/L	06/16/21 17:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.228U ± 0.324 (0.696) C:75% T:86%	pCi/L	06/21/21 11:00	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.521U ± 0.553 (1.07)	pCi/L	06/22/21 15:45	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY POOLED WMWBARPU_1322

Pace Project No.: 92540467

Sample: BB08975 MW-3 DUP **Lab ID: 92540467003** Collected: 05/11/21 10:10 Received: 05/18/21 10:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.630 ± 0.301 (0.327) C:90% T:NA	pCi/L	06/16/21 17:49	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.481U ± 0.298 (0.549) C:80% T:96%	pCi/L	06/21/21 11:00	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.11 ± 0.599 (0.876)	pCi/L	06/22/21 15:45	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY POOLED WMWBARPU_1322

Pace Project No.: 92540467

Sample: BB08976 MW-2 **Lab ID: 92540467004** Collected: 05/11/21 11:28 Received: 05/18/21 10:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.718 ± 0.342 (0.415) C:82% T:NA	pCi/L	06/16/21 17:49	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.227U ± 0.321 (0.688) C:75% T:90%	pCi/L	06/21/21 11:00	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.945U ± 0.663 (1.10)	pCi/L	06/22/21 15:45	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY POOLED WMWBARPU_1322

Pace Project No.: 92540467

Sample: BB08977 MW-1 **Lab ID: 92540467005** Collected: 05/12/21 09:00 Received: 05/18/21 10:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.361U ± 0.264 (0.425) C:80% T:NA	pCi/L	06/16/21 17:49	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.278U ± 0.345 (0.731) C:75% T:87%	pCi/L	06/21/21 11:00	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.639U ± 0.609 (1.16)	pCi/L	06/22/21 15:45	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY POOLED WMWBARPU_1322

Pace Project No.: 92540467

Sample: BB08977 MW-1 MS **Lab ID: 92540467006** Collected: 05/12/21 09:00 Received: 05/18/21 10:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	112.12 %REC ± NA (NA) C:NA T:NA	pCi/L	06/16/21 17:49	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	99.53 %REC ± NA (NA) C:NA T:NA	pCi/L	06/21/21 11:00	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY POOLED WMWBARPU_1322

Pace Project No.: 92540467

Sample: BB08977 MW-1 MSD **Lab ID: 92540467007** Collected: 05/12/21 09:00 Received: 05/18/21 10:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	101.49 %REC 9.96RPD ± NA (NA) C:NA T:NA	pCi/L	06/16/21 17:49	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	89.66 %REC 10.43 RPD ± NA (NA) C:NA T:NA	pCi/L	06/21/21 11:00	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY POOLED WMWBARPU_1322

Pace Project No.: 92540467

Sample: BB08978 FB-1 **Lab ID: 92540467008** Collected: 05/12/21 09:45 Received: 05/18/21 10:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0477U ± 0.169 (0.426) C:88% T:NA	pCi/L	06/16/21 17:49	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.215U ± 0.279 (0.592) C:76% T:97%	pCi/L	06/21/21 11:00	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.263U ± 0.448 (1.02)	pCi/L	06/22/21 15:45	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY POOLED WMWBARPU_1322

Pace Project No.: 92540467

Sample: BB08979 EB-1 **Lab ID: 92540467009** Collected: 05/12/21 10:00 Received: 05/18/21 10:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0200U ± 0.185 (0.503) C:91% T:NA	pCi/L	06/16/21 17:49	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.430U ± 0.323 (0.632) C:81% T:98%	pCi/L	06/21/21 14:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.450U ± 0.508 (1.14)	pCi/L	06/22/21 15:45	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BARRY POOLED WMWBARPU_1322

Pace Project No.: 92540467

QC Batch: 449722

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92540467009

METHOD BLANK: 2170101

Matrix: Water

Associated Lab Samples: 92540467009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.526 ± 0.309 (0.561) C:82% T:99%	pCi/L	06/21/21 14:04	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BARRY POOLED WMWBARPU_1322

Pace Project No.: 92540467

QC Batch: 449545

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92540467001, 92540467002, 92540467003, 92540467004, 92540467005, 92540467006, 92540467007, 92540467008

METHOD BLANK: 2169351

Matrix: Water

Associated Lab Samples: 92540467001, 92540467002, 92540467003, 92540467004, 92540467005, 92540467006, 92540467007, 92540467008

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.106 ± 0.146 (0.301) C:97% T:NA	pCi/L	06/16/21 17:38	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BARRY POOLED WMWBARPU_1322

Pace Project No.: 92540467

QC Batch: 449720

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92540467001, 92540467002, 92540467003, 92540467004, 92540467005, 92540467006, 92540467007, 92540467008

METHOD BLANK: 2170098

Matrix: Water

Associated Lab Samples: 92540467001, 92540467002, 92540467003, 92540467004, 92540467005, 92540467006, 92540467007, 92540467008

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.125 ± 0.247 (0.546) C:78% T:90%	pCi/L	06/21/21 10:56	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BARRY POOLED WMWBARPU_1322

Pace Project No.: 92540467

QC Batch: 449549

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92540467009

METHOD BLANK: 2169369

Matrix: Water

Associated Lab Samples: 92540467009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.109 ± 0.188 (0.423) C:91% T:NA	pCi/L	06/16/21 17:49	

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QUALIFIERS

Project: BARRY POOLED WMWBARPU_1322

Pace Project No.: 92540467

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BARRY POOLED WMWBARPU_1322
Pace Project No.: 92540467

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92540467001	BB08973 MW-4	EPA 9315	449545		
92540467002	BB08974 MW-3	EPA 9315	449545		
92540467003	BB08975 MW-3 DUP	EPA 9315	449545		
92540467004	BB08976 MW-2	EPA 9315	449545		
92540467005	BB08977 MW-1	EPA 9315	449545		
92540467006	BB08977 MW-1 MS	EPA 9315	449545		
92540467007	BB08977 MW-1 MSD	EPA 9315	449545		
92540467008	BB08978 FB-1	EPA 9315	449545		
92540467009	BB08979 EB-1	EPA 9315	449549		
92540467001	BB08973 MW-4	EPA 9320	449720		
92540467002	BB08974 MW-3	EPA 9320	449720		
92540467003	BB08975 MW-3 DUP	EPA 9320	449720		
92540467004	BB08976 MW-2	EPA 9320	449720		
92540467005	BB08977 MW-1	EPA 9320	449720		
92540467006	BB08977 MW-1 MS	EPA 9320	449720		
92540467007	BB08977 MW-1 MSD	EPA 9320	449720		
92540467008	BB08978 FB-1	EPA 9320	449720		
92540467009	BB08979 EB-1	EPA 9320	449722		
92540467001	BB08973 MW-4	Total Radium Calculation	453575		
92540467002	BB08974 MW-3	Total Radium Calculation	453575		
92540467003	BB08975 MW-3 DUP	Total Radium Calculation	453575		
92540467004	BB08976 MW-2	Total Radium Calculation	453575		
92540467005	BB08977 MW-1	Total Radium Calculation	453575		
92540467008	BB08978 FB-1	Total Radium Calculation	453575		
92540467009	BB08979 EB-1	Total Radium Calculation	453575		

REPORT OF LABORATORY ANALYSIS

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Pittsburgh Lab Sample Condition Upon Receipt



Client Name: Alabama Power Co

WO#: 92540467



92540467

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 95510670 1080

LIMS Login

Custody Seal on Cooler/Box Present: yes no Seals Intact: yes no

Thermometer Used N/A Type of Ice: Wet Blue (None)

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

Temp should be above freezing to 6°C

Comments:	Yes	No	N/A	pH paper Lot#	Date and Initials of person examining contents	
				<u>1003801</u>	<u>05/24/21 AF</u>	
Chain of Custody Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.		
Chain of Custody Filled Out:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.		
Chain of Custody Relinquished:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3.		
Sampler Name & Signature on COC:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4.		
Sample Labels match COC:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.		
-Includes date/time/ID Matrix: <u>WT</u>						
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6.		
Short Hold Time Analysis (<72hr remaining):	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7.		
Rush Turn Around Time Requested:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8.		
Sufficient Volume:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9.	<u>Low Volume per each container, LV also written on containers.</u>	
Correct Containers Used:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10.		
-Pace Containers Used:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Containers Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11.		
Orthophosphate field filtered	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12.		
Hex Cr Aqueous sample field filtered	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13.		
Organic Samples checked for dechlorination:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14.		
Filtered volume received for Dissolved tests	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15.		
All containers have been checked for preservation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16.		
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix					<u>pH < 2</u>	
All containers meet method preservation requirements.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed	<u>AF</u>	Date/Time of preservation
				Lot # of added preservative		
Headspace in VOA Vials (>6mm):	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	17.		
Trip Blank Present:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	18.		
Trip Blank Custody Seals Present	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
Rad Samples Screened < 0.5 mrem/hr	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed:	<u>AF</u>	Date: <u>5/24/21</u> Survey Meter SN: <u>1563</u>

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

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**
 Email To: **lmidkiff@southemco.com**
 Phone: **205-864-6197** Fax
 Requested Due Date: **28 days**

Section B
 Required Project Information:
 Report To: **Laura Mickiff**
 Copy To: **Brooks Cation & Renee Jernigan**
 Purchase Order #: **APC10700688**
 Project Name: **Plant Barry Pooled Upgradient**
 Project Number: **VMWVBARPU_1322**

Section C
 Invoice Information:
 Attention: **Laura Mickiff**
 Company Name: **Alabama Power Co.**
 Address: **744 Highway 87 GSC Bldg #8**
 Page Order: **CCR**
 Page Project Manager: **Kevin Herring@daezelabs.com**
 Page Profile #: **13805**

Regulatory Agency: **AL**

Page: 1 of 1

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9, /, -) Sample IDs must be unique	MATRIX Drinking Water Waste Water Surface Water Other Tissue	CODE DW WW P SL WSP AQ OT TS	MATRX CODE (see valid codes to left)		SAMPLE TYPE (G=GRAB G=COMP)		DATE TIME	DATE TIME	SAMPLE TEMP AT COLLECTION	PRESERVATIVES							ANALYSIS TEST	EPA 9315	EPA 9320	Total Redum Sum	Metrix Spike/Metrix Spike D	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)									
				G	COMP	H2SO4	HNO3				HCl	NaOH	Na2S2O3	Methanol	Other	Y	N																
1	BB08973	MM-4	GM/G					5/11/2021	9:00	1	X	X																					
2	BB08974	MM-3	GM/G					5/11/2021	10:10	1	X	X																					
3	BB08975	MM-3 DUP	GM/G					5/11/2021	10:10	1	X	X																					
4	BB08976	MM-2	GM/G					5/11/2021	11:28	1	X	X																					
5	BB08977	MM-1	GM/G					5/12/2021	9:00	3	X	X																					
6	BB08978	FB-1	GM/G					5/12/2021	9:45	1	X	X																					
7	BB08979	EB-1	GM/G					5/12/2021	10:00	1	X	X																					
8																																	
9																																	
10																																	
11																																	
12																																	

REQUISITIONED BY/LAFILATION: Laura Mickiff/ APC GTL	DATE 5/14/2021	TIME 9:15	ACCEPTED BY/LAFILATION: G STOCK	DATE 5/18/21	TIME 10:00	SAMPLE CONDITIONS: TEMP IN C - Received on Ice (Y/N) N Custody Sealed Cooler (Y/N) Y Samples Intact (Y/N) Y
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SAMPLER NAME AND SIGNATURE:
 PRINT NAME OF SAMPLER:
 SIGNATURE OF SAMPLER:
 DATE SIGNED:

001
002
003
004
005
006
007
008
5/18/21
AS

Quality Control Sample Performance Assessment



Test: Ra-226
Analyst: CLA
Date: 5/26/2021
Worklist: 60743
Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	5/12/2021	5/12/2021
Sample I.D.	92540464002	92540467005
Sample MS I.D.	92540464003	92540467006
Sample MSD I.D.	92540464004	92540467007
Spike I.D.:	19-033	19-033
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	24.036	24.038
Spike Volume Used in MS (mL):	0.20	0.20
MS Aliquot (L, g, F):	0.206	0.202
MS Target Conc. (pCi/L, g, F):	23.287	23.827
MSD Aliquot (L, g, F):	0.206	0.207
MSD Target Conc. (pCi/L, g, F):	23.307	23.239
MS Spike Uncertainty (calculated):	0.279	0.286
MSD Spike Uncertainty (calculated):	0.280	0.279
Sample Result Counting Uncertainty (pCi/L, g, F):	0.257	0.261
Sample Matrix Spike Result:	22.620	27.077
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.576	1.897
Sample Matrix Spike Duplicate Result:	25.862	23.946
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.692	1.651
MS Numerical Performance Indicator:	-1.116	2.925
MSD Numerical Performance Indicator:	96.03%	112.12%
MS Percent Recovery:	109.95%	101.49%
MSD Percent Recovery:	N/A	N/A
MS Status vs Numerical Indicator:	N/A	N/A
MSD Status vs Numerical Indicator:	Pass	Pass
MSM/MSD Upper % Recovery Limits:	125%	125%
MSM/MSD Lower % Recovery Limits:	75%	75%

Method Blank Assessment	LCSD (Y or N)?	N
MB Sample ID	LCSD60743	LCSD60743
MB concentration:	6/16/2021	
M/B Counting Uncertainty:	19-033	
MB MDC:	24.037	
MB Numerical Performance Indicator:	0.10	
MB Status vs Numerical Indicator:	0.202	
MB Status vs MDC:	0.143	
	12.211	
	1.162	
	102.39%	
	N/A	
	Pass	
	125%	
	75%	

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
Count Date:	6/16/2021	
Spike I.D.:	19-033	
Decay Corrected Spike Concentration (pCi/mL):	24.037	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.202	
Target Conc. (pCi/L, g, F):	11.926	
Uncertainty (calculated):	0.143	
Result (pCi/L, g, F):	12.211	
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	1.162	
Numerical Performance Indicator:	0.47	
Percent Recovery:	102.39%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	125%	
Lower % Recovery Limits:	75%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	MS/MSD 1	MS/MSD 2
Sample I.D.	92540464002	92540467005
Sample MS I.D.	92540464003	92540467006
Sample MSD I.D.	92540464004	92540467007
Spike I.D.:	19-033	19-033
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	22.620	27.077
Sample Matrix Spike Duplicate Result:	1.576	1.897
Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	25.862	23.946
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.692	1.651
Duplicate Numerical Performance Indicator:	-2.765	2.441
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	13.51%	9.96%
MS/MSD Duplicate Status vs Numerical Indicator:	N/A	N/A
MS/MSD Duplicate Status vs RPD:	Pass	Pass
% RPD Limit:	25%	25%

Duplicate Sample Assessment	LCSD (Y or N)?	N
Sample I.D.:	LCSD60743	LCSD60743
Duplicate Sample I.D.:	6/16/2021	
Duplicate Sample Result (pCi/L, g, F):	19-033	
Sample Result Counting Uncertainty (pCi/L, g, F):	24.037	
Sample Duplicate Result (pCi/L, g, F):	0.10	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.202	
Are sample and/or duplicate results below RL?	0.143	
Duplicate Numerical Performance Indicator:	12.211	
Duplicate RPD:	1.162	
Duplicate Status vs Numerical Indicator:	0.47	
Duplicate Status vs RPD:	102.39%	
% RPD Limit:	N/A	
	Pass	
	125%	
	75%	

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

Comments:

Handwritten signature: V. J. ...

Handwritten signature: VAM 6/17/21

Quality Control Sample Performance Assessment



Analyst **Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-226
Analyst: CLA
Date: 5/26/2021
Worklist: 60745
Matrix: DW

Method Blank Assessment	
MB Sample ID	2169369
MB concentration:	0.109
MB Counting Uncertainty:	0.188
MB MDC:	0.423
MB Numerical Performance Indicator:	1.14
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		Y
LCS D (Y or N)?		LCS D 60745
Count Date:	6/16/2021	6/16/2021
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.037	24.037
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.210	0.209
Target Conc. (pCi/L, g, F):	11.433	11.520
Uncertainty (Calculated):	0.137	0.138
Result (pCi/L, g, F):	12.378	12.369
LCS L/CSD Counting Uncertainty (pCi/L, g, F):	1.184	1.168
Numerical Performance Indicator:	1.55	1.45
Percent Recovery:	108.26%	107.55%
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		Y
Sample I.D.:	92540467009	92540467009
Duplicate Sample I.D.:	92540467009DUP	92540467009DUP
Sample Result (pCi/L, g, F):	0.020	0.020
Sample Duplicate Result (pCi/L, g, F):	0.185	0.185
Sample Result Counting Uncertainty (pCi/L, g, F):	-0.029	-0.029
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.174	0.174
Are sample and/or duplicate results below RL?	See Below #	See Below #
Duplicate Numerical Performance Indicator:	0.376	0.376
(Based on the LCS L/CSD Percent Recoveries) Duplicate RPD:	-1115.42%	-1115.42%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	Pass
% RPD Limit:	25%	25%

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 Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:
Sample Matrix Spike Result:
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
Duplicate Numerical Performance Indicator:
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:
MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs RPD:
% RPD Limit:

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

Comments:

Handwritten notes: "OK" and "LAM 6/17/21"

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: JC2
Date: 6/14/2021
Worklist: 60774
Matrix: WT

Method Blank Assessment

MB Sample ID	2170098
MB concentration:	0.125
MB 2 Sigma CSU:	0.247
MB MDC:	0.546
MB Numerical Performance Indicator:	0.99
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment

LCS#	Y or N?	N
LCS#60774		LCS#60774
Count Date:	6/21/2021	
Spike I.D.:	21-003	
Decay Corrected Spike Concentration (pCi/mL):	37.234	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.806	
Target Conc. (pCi/L, g, F):	4.822	
Uncertainty (Calculated):	0.226	
Result (pCi/L, g, F):	3.238	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.792	
Numerical Performance Indicator:	-3.29	
Percent Recovery:	70.05%	
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 (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Sample Result 2 Sigma CSU (pCi/L, g, F):	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	
Duplicate Numerical Performance Indicator:	
Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
Duplicate Status vs RPD:	
% RPD Limit:	

See Below #

Sample Matrix Spike Control Assessment

Sample Collection Date:	MS/MSD 1	MS/MSD 2
Sample I.D.:	92540464002	92540467005
Sample MS I.D.:	92540464003	92540467006
Sample MSD I.D.:	92540464004	92540467007
Spike I.D.:	21-003	21-003
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	37.729	37.729
Spike Volume Used in MS (mL):	0.20	0.20
MS Aliquot (L, g, F):	0.820	0.811
MS Target Conc. (pCi/L, g, F):	9.202	9.304
MSD Aliquot (L, g, F):	0.811	0.812
MSD Target Conc. (pCi/L, g, F):	9.306	9.291
MS Spike Uncertainty (calculated):	0.451	0.456
MSD Spike Uncertainty (calculated):	0.456	0.455
Sample Result:	0.208	0.278
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.323	0.345
Sample Matrix Spike Result:	9.151	9.539
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.826	1.909
Sample Matrix Spike Duplicate Result:	8.644	8.609
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.732	1.747
MS Numerical Performance Indicator:	-0.266	-0.043
MSD Numerical Performance Indicator:	-0.937	-1.024
MS Percent Recovery:	97.19%	99.53%
MSD Percent Recovery:	90.65%	89.66%
MS Status vs Numerical Indicator:	Pass	Pass
MSD Status vs Numerical Indicator:	Pass	Pass
MS Status vs Recovery:	Pass	Pass
MSD Status vs Recovery:	Pass	Pass
MS/MSD Upper % Recovery Limits:	135%	135%
MS/MSD Lower % Recovery Limits:	60%	60%

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.:	MS/MSD 1	MS/MSD 2
Sample I.D.:	92540464002	92540467005
Sample MS I.D.:	92540464003	92540467006
Sample MSD I.D.:	92540464004	92540467007
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	9.151	9.539
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.826	1.909
Sample Matrix Spike Duplicate Result:	8.644	8.609
Duplicate Numerical Performance Indicator:	1.732	1.747
Duplicate Numerical Performance Indicator:	0.395	0.705
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	6.98%	10.43%
MS/MSD Duplicate Status vs Numerical Indicator:	Pass	Pass
MS/MSD Duplicate Status vs RPD:	Pass	Pass
% RPD Limit:	36%	36%

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

Comments:

June 22/21

Quality Control Sample Performance Assessment



Test: Ra-228
Analyst: VAL
Date: 6/15/2021
Worksheet: 60775
Matrix: WT

Method Blank Assessment

MB Sample ID	2170101
MB concentration:	0.526
MB 2 Sigma CSU:	0.308
MB MDC:	0.561
MB Numerical Performance Indicator:	3.34
MB Status vs Numerical Indicator:	Fail
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment

LCSID (Y or N)?	Y	
	LCS60775	LCS60775
Count Date:	6/21/2021	6/21/2021
Spike ID:	21-003	21-003
Decay Corrected Spike Concentration (pCi/mL):	37.233	37.233
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.821	0.810
Target Conc. (pCi/L, g, F):	4.533	4.594
Uncertainty (Calculated):	0.222	0.225
Result (pCi/L, g, F):	3.945	3.791
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.895	0.902
Numerical Performance Indicator:	-1.25	-1.69
Percent Recovery:	87.03%	82.51%
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

LCSID (Y or N)?	Y
LCS60775	LCS60775
Sample ID:	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample ID:	
Sample Result (pCi/L, g, F):	3.845
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.895
Sample Duplicate Result (pCi/L, g, F):	3.791
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.902
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.238
Duplicate Percent Recoveries:	5.33%
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:

*If the lowest activity sample in this batch is greater than 10 times the value, the blank is acceptable, otherwise this batch must be re-prepped.

MB activity - MDC, PASS
6/15/21

Analyst Must Manually Enter All Fields Highlighted in Yellow.

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

Matrix Spike/Matrix Spike Duplicate Sample Assessment

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

**Alabama Power Company
Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-8	5/11/2021 7:46	Conductivity	526.08	uS/cm
BY-AP-MW-8	5/11/2021 7:46	DO	0.12	mg/L
BY-AP-MW-8	5/11/2021 7:46	Depth to Water Detail	19.36	ft
BY-AP-MW-8	5/11/2021 7:46	Oxidation Reduction Potention	-110.07	mv
BY-AP-MW-8	5/11/2021 7:46	pH	6.29	SU
BY-AP-MW-8	5/11/2021 7:46	Temperature	20.69	C
BY-AP-MW-8	5/11/2021 7:46	Turbidity	5.52	NTU
BY-AP-MW-8	5/11/2021 7:51	Conductivity	521.11	uS/cm
BY-AP-MW-8	5/11/2021 7:51	DO	0.1	mg/L
BY-AP-MW-8	5/11/2021 7:51	Depth to Water Detail	19.36	ft
BY-AP-MW-8	5/11/2021 7:51	Oxidation Reduction Potention	-112.75	mv
BY-AP-MW-8	5/11/2021 7:51	pH	6.27	SU
BY-AP-MW-8	5/11/2021 7:51	Temperature	20.65	C
BY-AP-MW-8	5/11/2021 7:51	Turbidity	4.47	NTU
BY-AP-MW-8	5/11/2021 7:56	Conductivity	518.48	uS/cm
BY-AP-MW-8	5/11/2021 7:56	DO	0.09	mg/L
BY-AP-MW-8	5/11/2021 7:56	Depth to Water Detail	19.36	ft
BY-AP-MW-8	5/11/2021 7:56	Oxidation Reduction Potention	-113.21	mv
BY-AP-MW-8	5/11/2021 7:56	pH	6.26	SU
BY-AP-MW-8	5/11/2021 7:56	Temperature	20.67	C
BY-AP-MW-8	5/11/2021 7:56	Turbidity	4.5	NTU
BY-AP-MW-8	5/11/2021 8:01	Conductivity	516.29	uS/cm
BY-AP-MW-8	5/11/2021 8:01	DO	0.08	mg/L
BY-AP-MW-8	5/11/2021 8:01	Depth to Water Detail	19.36	ft
BY-AP-MW-8	5/11/2021 8:01	Oxidation Reduction Potention	-113.78	mv
BY-AP-MW-8	5/11/2021 8:01	pH	6.25	SU
BY-AP-MW-8	5/11/2021 8:01	Temperature	20.67	C
BY-AP-MW-8	5/11/2021 8:01	Turbidity	4.91	NTU

**Alabama Power Company
Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-15	5/11/2021 10:23	Conductivity	591.13	uS/cm
BY-AP-MW-15	5/11/2021 10:23	DO	0.15	mg/L
BY-AP-MW-15	5/11/2021 10:23	Depth to Water Detail	18.18	ft
BY-AP-MW-15	5/11/2021 10:23	Oxidation Reduction Potention	-126.96	mv
BY-AP-MW-15	5/11/2021 10:23	pH	6.64	SU
BY-AP-MW-15	5/11/2021 10:23	Temperature	21.22	C
BY-AP-MW-15	5/11/2021 10:23	Turbidity	12.3	NTU
BY-AP-MW-15	5/11/2021 10:28	Conductivity	570.56	uS/cm
BY-AP-MW-15	5/11/2021 10:28	DO	0.13	mg/L
BY-AP-MW-15	5/11/2021 10:28	Depth to Water Detail	18.18	ft
BY-AP-MW-15	5/11/2021 10:28	Oxidation Reduction Potention	-122.38	mv
BY-AP-MW-15	5/11/2021 10:28	pH	6.55	SU
BY-AP-MW-15	5/11/2021 10:28	Temperature	21.12	C
BY-AP-MW-15	5/11/2021 10:28	Turbidity	5.34	NTU
BY-AP-MW-15	5/11/2021 10:33	Conductivity	568.95	uS/cm
BY-AP-MW-15	5/11/2021 10:33	DO	0.13	mg/L
BY-AP-MW-15	5/11/2021 10:33	Depth to Water Detail	18.18	ft
BY-AP-MW-15	5/11/2021 10:33	Oxidation Reduction Potention	-122.77	mv
BY-AP-MW-15	5/11/2021 10:33	pH	6.59	SU
BY-AP-MW-15	5/11/2021 10:33	Temperature	21.12	C
BY-AP-MW-15	5/11/2021 10:33	Turbidity	9.76	NTU
BY-AP-MW-15	5/11/2021 10:38	Conductivity	566.04	uS/cm
BY-AP-MW-15	5/11/2021 10:38	DO	0.13	mg/L
BY-AP-MW-15	5/11/2021 10:38	Depth to Water Detail	18.18	ft
BY-AP-MW-15	5/11/2021 10:38	Oxidation Reduction Potention	-123.94	mv
BY-AP-MW-15	5/11/2021 10:38	pH	6.62	SU
BY-AP-MW-15	5/11/2021 10:38	Temperature	21.14	C
BY-AP-MW-15	5/11/2021 10:38	Turbidity	12.3	NTU
BY-AP-MW-15	5/11/2021 10:43	Conductivity	497.43	uS/cm
BY-AP-MW-15	5/11/2021 10:43	DO	6.71	mg/L
BY-AP-MW-15	5/11/2021 10:43	Depth to Water Detail	18.18	ft
BY-AP-MW-15	5/11/2021 10:43	Oxidation Reduction Potention	-106.35	mv
BY-AP-MW-15	5/11/2021 10:43	pH	6.67	SU
BY-AP-MW-15	5/11/2021 10:43	Temperature	21.19	C
BY-AP-MW-15	5/11/2021 10:43	Turbidity	28.7	NTU
BY-AP-MW-15	5/11/2021 10:48	Conductivity	562.44	uS/cm
BY-AP-MW-15	5/11/2021 10:48	DO	0.13	mg/L
BY-AP-MW-15	5/11/2021 10:48	Depth to Water Detail	18.18	ft
BY-AP-MW-15	5/11/2021 10:48	Oxidation Reduction Potention	-125.5	mv
BY-AP-MW-15	5/11/2021 10:48	pH	6.69	SU
BY-AP-MW-15	5/11/2021 10:48	Temperature	21.17	C
BY-AP-MW-15	5/11/2021 10:48	Turbidity	25.6	NTU
BY-AP-MW-15	5/11/2021 10:53	Conductivity	561.24	uS/cm
BY-AP-MW-15	5/11/2021 10:53	DO	0.13	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-15	5/11/2021 10:53	Depth to Water Detail	18.18	ft
BY-AP-MW-15	5/11/2021 10:53	Oxidation Reduction Potention	-127.3	mv
BY-AP-MW-15	5/11/2021 10:53	pH	6.72	SU
BY-AP-MW-15	5/11/2021 10:53	Temperature	21.12	C
BY-AP-MW-15	5/11/2021 10:53	Turbidity	26.5	NTU
BY-AP-MW-15	5/11/2021 10:58	Conductivity	560.05	uS/cm
BY-AP-MW-15	5/11/2021 10:58	DO	0.13	mg/L
BY-AP-MW-15	5/11/2021 10:58	Depth to Water Detail	18.18	ft
BY-AP-MW-15	5/11/2021 10:58	Oxidation Reduction Potention	-127.87	mv
BY-AP-MW-15	5/11/2021 10:58	pH	6.75	SU
BY-AP-MW-15	5/11/2021 10:58	Temperature	21.13	C
BY-AP-MW-15	5/11/2021 10:58	Turbidity	37.5	NTU
BY-AP-MW-15	5/11/2021 11:03	Conductivity	556.57	uS/cm
BY-AP-MW-15	5/11/2021 11:03	DO	0.13	mg/L
BY-AP-MW-15	5/11/2021 11:03	Depth to Water Detail	18.18	ft
BY-AP-MW-15	5/11/2021 11:03	Oxidation Reduction Potention	-128.01	mv
BY-AP-MW-15	5/11/2021 11:03	pH	6.72	SU
BY-AP-MW-15	5/11/2021 11:03	Temperature	21.18	C
BY-AP-MW-15	5/11/2021 11:03	Turbidity	37.4	NTU
BY-AP-MW-15	5/11/2021 11:08	Conductivity	558.68	uS/cm
BY-AP-MW-15	5/11/2021 11:08	DO	0.13	mg/L
BY-AP-MW-15	5/11/2021 11:08	Depth to Water Detail	18.18	ft
BY-AP-MW-15	5/11/2021 11:08	Oxidation Reduction Potention	-128.19	mv
BY-AP-MW-15	5/11/2021 11:08	pH	6.73	SU
BY-AP-MW-15	5/11/2021 11:08	Temperature	21.16	C
BY-AP-MW-15	5/11/2021 11:08	Turbidity	36.4	NTU
BY-AP-MW-15	5/11/2021 11:13	Conductivity	558.57	uS/cm
BY-AP-MW-15	5/11/2021 11:13	DO	0.13	mg/L
BY-AP-MW-15	5/11/2021 11:13	Depth to Water Detail	18.18	ft
BY-AP-MW-15	5/11/2021 11:13	Oxidation Reduction Potention	-129.16	mv
BY-AP-MW-15	5/11/2021 11:13	pH	6.74	SU
BY-AP-MW-15	5/11/2021 11:13	Temperature	21.1	C
BY-AP-MW-15	5/11/2021 11:13	Turbidity	33.4	NTU
BY-AP-MW-15	5/11/2021 11:18	Conductivity	557.98	uS/cm
BY-AP-MW-15	5/11/2021 11:18	DO	0.12	mg/L
BY-AP-MW-15	5/11/2021 11:18	Depth to Water Detail	18.18	ft
BY-AP-MW-15	5/11/2021 11:18	Oxidation Reduction Potention	-129.25	mv
BY-AP-MW-15	5/11/2021 11:18	pH	6.75	SU
BY-AP-MW-15	5/11/2021 11:18	Temperature	21.09	C
BY-AP-MW-15	5/11/2021 11:18	Turbidity	23.1	NTU
BY-AP-MW-15	5/11/2021 11:23	Conductivity	557.6	uS/cm
BY-AP-MW-15	5/11/2021 11:23	DO	0.12	mg/L
BY-AP-MW-15	5/11/2021 11:23	Depth to Water Detail	18.18	ft
BY-AP-MW-15	5/11/2021 11:23	Oxidation Reduction Potention	-129.78	mv

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-15	5/11/2021 11:23	pH	6.76	SU
BY-AP-MW-15	5/11/2021 11:23	Temperature	21.08	C
BY-AP-MW-15	5/11/2021 11:23	Turbidity	19.9	NTU
BY-AP-MW-15	5/11/2021 11:28	Conductivity	557.25	uS/cm
BY-AP-MW-15	5/11/2021 11:28	DO	0.13	mg/L
BY-AP-MW-15	5/11/2021 11:28	Depth to Water Detail	18.18	ft
BY-AP-MW-15	5/11/2021 11:28	Oxidation Reduction Potention	-129.56	mv
BY-AP-MW-15	5/11/2021 11:28	pH	6.75	SU
BY-AP-MW-15	5/11/2021 11:28	Temperature	21.07	C
BY-AP-MW-15	5/11/2021 11:28	Turbidity	13.8	NTU
BY-AP-MW-15	5/11/2021 11:33	Conductivity	558.35	uS/cm
BY-AP-MW-15	5/11/2021 11:33	DO	0.12	mg/L
BY-AP-MW-15	5/11/2021 11:33	Depth to Water Detail	18.18	ft
BY-AP-MW-15	5/11/2021 11:33	Oxidation Reduction Potention	-129.86	mv
BY-AP-MW-15	5/11/2021 11:33	pH	6.76	SU
BY-AP-MW-15	5/11/2021 11:33	Temperature	21.05	C
BY-AP-MW-15	5/11/2021 11:33	Turbidity	9.37	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-17H	5/17/2021 13:36	Conductivity	417.49	uS/cm
BY-AP-MW-17H	5/17/2021 13:36	DO	0.09	mg/L
BY-AP-MW-17H	5/17/2021 13:36	Depth to Water Detail	14.32	ft
BY-AP-MW-17H	5/17/2021 13:36	Oxidation Reduction Potention	-106.86	mv
BY-AP-MW-17H	5/17/2021 13:36	pH	6.41	SU
BY-AP-MW-17H	5/17/2021 13:36	Temperature	21.48	C
BY-AP-MW-17H	5/17/2021 13:36	Turbidity	2.8	NTU
BY-AP-MW-17H	5/17/2021 13:41	Conductivity	417.14	uS/cm
BY-AP-MW-17H	5/17/2021 13:41	DO	0.07	mg/L
BY-AP-MW-17H	5/17/2021 13:41	Depth to Water Detail	14.32	ft
BY-AP-MW-17H	5/17/2021 13:41	Oxidation Reduction Potention	-105.88	mv
BY-AP-MW-17H	5/17/2021 13:41	pH	6.4	SU
BY-AP-MW-17H	5/17/2021 13:41	Temperature	21.47	C
BY-AP-MW-17H	5/17/2021 13:41	Turbidity	4.58	NTU
BY-AP-MW-17H	5/17/2021 13:46	Conductivity	418.2	uS/cm
BY-AP-MW-17H	5/17/2021 13:46	DO	0.07	mg/L
BY-AP-MW-17H	5/17/2021 13:46	Depth to Water Detail	14.32	ft
BY-AP-MW-17H	5/17/2021 13:46	Oxidation Reduction Potention	-105.5	mv
BY-AP-MW-17H	5/17/2021 13:46	pH	6.41	SU
BY-AP-MW-17H	5/17/2021 13:46	Temperature	21.46	C
BY-AP-MW-17H	5/17/2021 13:46	Turbidity	4.19	NTU
BY-AP-MW-17H	5/17/2021 13:51	Conductivity	419.65	uS/cm
BY-AP-MW-17H	5/17/2021 13:51	DO	0.07	mg/L
BY-AP-MW-17H	5/17/2021 13:51	Depth to Water Detail	14.32	ft
BY-AP-MW-17H	5/17/2021 13:51	Oxidation Reduction Potention	-100.98	mv
BY-AP-MW-17H	5/17/2021 13:51	pH	6.35	SU
BY-AP-MW-17H	5/17/2021 13:51	Temperature	21.47	C
BY-AP-MW-17H	5/17/2021 13:51	Turbidity	5.02	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-9	5/18/2021 8:50	Conductivity	546.08	uS/cm
BY-AP-MW-9	5/18/2021 8:50	DO	0.1	mg/L
BY-AP-MW-9	5/18/2021 8:50	Depth to Water Detail	19.14	ft
BY-AP-MW-9	5/18/2021 8:50	Oxidation Reduction Potention	-61.49	mv
BY-AP-MW-9	5/18/2021 8:50	pH	6.23	SU
BY-AP-MW-9	5/18/2021 8:50	Temperature	21.15	C
BY-AP-MW-9	5/18/2021 8:50	Turbidity	3.26	NTU
BY-AP-MW-9	5/18/2021 8:55	Conductivity	548.13	uS/cm
BY-AP-MW-9	5/18/2021 8:55	DO	0.08	mg/L
BY-AP-MW-9	5/18/2021 8:55	Depth to Water Detail	19.14	ft
BY-AP-MW-9	5/18/2021 8:55	Oxidation Reduction Potention	-66.29	mv
BY-AP-MW-9	5/18/2021 8:55	pH	6.25	SU
BY-AP-MW-9	5/18/2021 8:55	Temperature	21.16	C
BY-AP-MW-9	5/18/2021 8:55	Turbidity	1.94	NTU
BY-AP-MW-9	5/18/2021 9:00	Conductivity	545.8	uS/cm
BY-AP-MW-9	5/18/2021 9:00	DO	0.07	mg/L
BY-AP-MW-9	5/18/2021 9:00	Depth to Water Detail	19.14	ft
BY-AP-MW-9	5/18/2021 9:00	Oxidation Reduction Potention	-71.27	mv
BY-AP-MW-9	5/18/2021 9:00	pH	6.29	SU
BY-AP-MW-9	5/18/2021 9:00	Temperature	21.18	C
BY-AP-MW-9	5/18/2021 9:00	Turbidity	2.12	NTU
BY-AP-MW-9	5/18/2021 9:05	Conductivity	544.23	uS/cm
BY-AP-MW-9	5/18/2021 9:05	DO	0.07	mg/L
BY-AP-MW-9	5/18/2021 9:05	Depth to Water Detail	19.14	ft
BY-AP-MW-9	5/18/2021 9:05	Oxidation Reduction Potention	-74.41	mv
BY-AP-MW-9	5/18/2021 9:05	pH	6.3	SU
BY-AP-MW-9	5/18/2021 9:05	Temperature	21.2	C
BY-AP-MW-9	5/18/2021 9:05	Turbidity	4.39	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-10V	5/18/2021 10:08	Conductivity	700.2	uS/cm
BY-AP-MW-10V	5/18/2021 10:08	DO	0.11	mg/L
BY-AP-MW-10V	5/18/2021 10:08	Depth to Water Detail	20.39	ft
BY-AP-MW-10V	5/18/2021 10:08	Oxidation Reduction Potention	-54.64	mv
BY-AP-MW-10V	5/18/2021 10:08	pH	6.3	SU
BY-AP-MW-10V	5/18/2021 10:08	Temperature	21.2	C
BY-AP-MW-10V	5/18/2021 10:08	Turbidity	1.75	NTU
BY-AP-MW-10V	5/18/2021 10:13	Conductivity	704.38	uS/cm
BY-AP-MW-10V	5/18/2021 10:13	DO	0.09	mg/L
BY-AP-MW-10V	5/18/2021 10:13	Depth to Water Detail	20.39	ft
BY-AP-MW-10V	5/18/2021 10:13	Oxidation Reduction Potention	-67.18	mv
BY-AP-MW-10V	5/18/2021 10:13	pH	6.33	SU
BY-AP-MW-10V	5/18/2021 10:13	Temperature	21.16	C
BY-AP-MW-10V	5/18/2021 10:13	Turbidity	3.49	NTU
BY-AP-MW-10V	5/18/2021 10:18	Conductivity	701.06	uS/cm
BY-AP-MW-10V	5/18/2021 10:18	DO	0.08	mg/L
BY-AP-MW-10V	5/18/2021 10:18	Depth to Water Detail	20.39	ft
BY-AP-MW-10V	5/18/2021 10:18	Oxidation Reduction Potention	-74.15	mv
BY-AP-MW-10V	5/18/2021 10:18	pH	6.33	SU
BY-AP-MW-10V	5/18/2021 10:18	Temperature	21.14	C
BY-AP-MW-10V	5/18/2021 10:18	Turbidity	1.97	NTU
BY-AP-MW-10V	5/18/2021 10:23	Conductivity	700.71	uS/cm
BY-AP-MW-10V	5/18/2021 10:23	DO	0.08	mg/L
BY-AP-MW-10V	5/18/2021 10:23	Depth to Water Detail	20.39	ft
BY-AP-MW-10V	5/18/2021 10:23	Oxidation Reduction Potention	-78.71	mv
BY-AP-MW-10V	5/18/2021 10:23	pH	6.34	SU
BY-AP-MW-10V	5/18/2021 10:23	Temperature	21.18	C
BY-AP-MW-10V	5/18/2021 10:23	Turbidity	1.73	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-12	5/18/2021 13:38	Conductivity	557.85	uS/cm
BY-AP-MW-12	5/18/2021 13:38	DO	0.11	mg/L
BY-AP-MW-12	5/18/2021 13:38	Depth to Water Detail	18.86	ft
BY-AP-MW-12	5/18/2021 13:38	Oxidation Reduction Potention	44.71	mv
BY-AP-MW-12	5/18/2021 13:38	pH	5.52	SU
BY-AP-MW-12	5/18/2021 13:38	Temperature	20.96	C
BY-AP-MW-12	5/18/2021 13:38	Turbidity	11.31	NTU
BY-AP-MW-12	5/18/2021 13:43	Conductivity	554.99	uS/cm
BY-AP-MW-12	5/18/2021 13:43	DO	0.1	mg/L
BY-AP-MW-12	5/18/2021 13:43	Depth to Water Detail	18.86	ft
BY-AP-MW-12	5/18/2021 13:43	Oxidation Reduction Potention	30.09	mv
BY-AP-MW-12	5/18/2021 13:43	pH	5.5	SU
BY-AP-MW-12	5/18/2021 13:43	Temperature	20.72	C
BY-AP-MW-12	5/18/2021 13:43	Turbidity	12.4	NTU
BY-AP-MW-12	5/18/2021 13:48	Conductivity	556.16	uS/cm
BY-AP-MW-12	5/18/2021 13:48	DO	0.08	mg/L
BY-AP-MW-12	5/18/2021 13:48	Depth to Water Detail	18.86	ft
BY-AP-MW-12	5/18/2021 13:48	Oxidation Reduction Potention	19.56	mv
BY-AP-MW-12	5/18/2021 13:48	pH	5.52	SU
BY-AP-MW-12	5/18/2021 13:48	Temperature	20.75	C
BY-AP-MW-12	5/18/2021 13:48	Turbidity	11.58	NTU
BY-AP-MW-12	5/18/2021 13:53	Conductivity	554.31	uS/cm
BY-AP-MW-12	5/18/2021 13:53	DO	0.08	mg/L
BY-AP-MW-12	5/18/2021 13:53	Depth to Water Detail	18.86	ft
BY-AP-MW-12	5/18/2021 13:53	Oxidation Reduction Potention	11.78	mv
BY-AP-MW-12	5/18/2021 13:53	pH	5.56	SU
BY-AP-MW-12	5/18/2021 13:53	Temperature	20.73	C
BY-AP-MW-12	5/18/2021 13:53	Turbidity	11.14	NTU
BY-AP-MW-12	5/18/2021 13:58	Conductivity	555.36	uS/cm
BY-AP-MW-12	5/18/2021 13:58	DO	0.07	mg/L
BY-AP-MW-12	5/18/2021 13:58	Depth to Water Detail	18.86	ft
BY-AP-MW-12	5/18/2021 13:58	Oxidation Reduction Potention	5.96	mv
BY-AP-MW-12	5/18/2021 13:58	pH	5.58	SU
BY-AP-MW-12	5/18/2021 13:58	Temperature	20.76	C
BY-AP-MW-12	5/18/2021 13:58	Turbidity	7.25	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-20H	5/19/2021 9:34	Conductivity	744.26	uS/cm
BY-AP-MW-20H	5/19/2021 9:34	DO	0.11	mg/L
BY-AP-MW-20H	5/19/2021 9:34	Depth to Water Detail	4.82	ft
BY-AP-MW-20H	5/19/2021 9:34	Oxidation Reduction Potention	40.6	mv
BY-AP-MW-20H	5/19/2021 9:34	pH	6.09	SU
BY-AP-MW-20H	5/19/2021 9:34	Temperature	19.89	C
BY-AP-MW-20H	5/19/2021 9:34	Turbidity	16.3	NTU
BY-AP-MW-20H	5/19/2021 9:39	Conductivity	739.33	uS/cm
BY-AP-MW-20H	5/19/2021 9:39	DO	0.1	mg/L
BY-AP-MW-20H	5/19/2021 9:39	Depth to Water Detail	4.82	ft
BY-AP-MW-20H	5/19/2021 9:39	Oxidation Reduction Potention	17.4	mv
BY-AP-MW-20H	5/19/2021 9:39	pH	6.12	SU
BY-AP-MW-20H	5/19/2021 9:39	Temperature	19.86	C
BY-AP-MW-20H	5/19/2021 9:39	Turbidity	20.9	NTU
BY-AP-MW-20H	5/19/2021 9:44	Conductivity	734.64	uS/cm
BY-AP-MW-20H	5/19/2021 9:44	DO	0.08	mg/L
BY-AP-MW-20H	5/19/2021 9:44	Depth to Water Detail	4.82	ft
BY-AP-MW-20H	5/19/2021 9:44	Oxidation Reduction Potention	1.88	mv
BY-AP-MW-20H	5/19/2021 9:44	pH	6.14	SU
BY-AP-MW-20H	5/19/2021 9:44	Temperature	19.87	C
BY-AP-MW-20H	5/19/2021 9:44	Turbidity	17	NTU
BY-AP-MW-20H	5/19/2021 9:49	Conductivity	739.16	uS/cm
BY-AP-MW-20H	5/19/2021 9:49	DO	0.07	mg/L
BY-AP-MW-20H	5/19/2021 9:49	Depth to Water Detail	4.82	ft
BY-AP-MW-20H	5/19/2021 9:49	Oxidation Reduction Potention	-9.62	mv
BY-AP-MW-20H	5/19/2021 9:49	pH	6.16	SU
BY-AP-MW-20H	5/19/2021 9:49	Temperature	19.89	C
BY-AP-MW-20H	5/19/2021 9:49	Turbidity	15.5	NTU
BY-AP-MW-20H	5/19/2021 9:54	Conductivity	740.15	uS/cm
BY-AP-MW-20H	5/19/2021 9:54	DO	0.07	mg/L
BY-AP-MW-20H	5/19/2021 9:54	Depth to Water Detail	4.82	ft
BY-AP-MW-20H	5/19/2021 9:54	Oxidation Reduction Potention	-18.47	mv
BY-AP-MW-20H	5/19/2021 9:54	pH	6.16	SU
BY-AP-MW-20H	5/19/2021 9:54	Temperature	19.9	C
BY-AP-MW-20H	5/19/2021 9:54	Turbidity	12.23	NTU
BY-AP-MW-20H	5/19/2021 9:59	Conductivity	738.57	uS/cm
BY-AP-MW-20H	5/19/2021 9:59	DO	0.06	mg/L
BY-AP-MW-20H	5/19/2021 9:59	Depth to Water Detail	4.82	ft
BY-AP-MW-20H	5/19/2021 9:59	Oxidation Reduction Potention	-25.66	mv
BY-AP-MW-20H	5/19/2021 9:59	pH	6.17	SU
BY-AP-MW-20H	5/19/2021 9:59	Temperature	19.9	C
BY-AP-MW-20H	5/19/2021 9:59	Turbidity	9.77	NTU

**Alabama Power Company
Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-20V	5/19/2021 10:39	Conductivity	517.64	uS/cm
BY-AP-MW-20V	5/19/2021 10:39	DO	0.13	mg/L
BY-AP-MW-20V	5/19/2021 10:39	Depth to Water Detail	11.45	ft
BY-AP-MW-20V	5/19/2021 10:39	Oxidation Reduction Potention	-35.3	mv
BY-AP-MW-20V	5/19/2021 10:39	pH	6.43	SU
BY-AP-MW-20V	5/19/2021 10:39	Temperature	20.55	C
BY-AP-MW-20V	5/19/2021 10:39	Turbidity	3.7	NTU
BY-AP-MW-20V	5/19/2021 10:44	Conductivity	514.93	uS/cm
BY-AP-MW-20V	5/19/2021 10:44	DO	0.12	mg/L
BY-AP-MW-20V	5/19/2021 10:44	Depth to Water Detail	11.45	ft
BY-AP-MW-20V	5/19/2021 10:44	Oxidation Reduction Potention	-40.27	mv
BY-AP-MW-20V	5/19/2021 10:44	pH	6.38	SU
BY-AP-MW-20V	5/19/2021 10:44	Temperature	20.54	C
BY-AP-MW-20V	5/19/2021 10:44	Turbidity	1.06	NTU
BY-AP-MW-20V	5/19/2021 10:49	Conductivity	512.96	uS/cm
BY-AP-MW-20V	5/19/2021 10:49	DO	0.13	mg/L
BY-AP-MW-20V	5/19/2021 10:49	Depth to Water Detail	11.45	ft
BY-AP-MW-20V	5/19/2021 10:49	Oxidation Reduction Potention	-47.11	mv
BY-AP-MW-20V	5/19/2021 10:49	pH	6.4	SU
BY-AP-MW-20V	5/19/2021 10:49	Temperature	20.43	C
BY-AP-MW-20V	5/19/2021 10:49	Turbidity	1.2	NTU
BY-AP-MW-20V	5/19/2021 10:54	Conductivity	512.9	uS/cm
BY-AP-MW-20V	5/19/2021 10:54	DO	0.13	mg/L
BY-AP-MW-20V	5/19/2021 10:54	Depth to Water Detail	11.45	ft
BY-AP-MW-20V	5/19/2021 10:54	Oxidation Reduction Potention	-54.15	mv
BY-AP-MW-20V	5/19/2021 10:54	pH	6.44	SU
BY-AP-MW-20V	5/19/2021 10:54	Temperature	20.45	C
BY-AP-MW-20V	5/19/2021 10:54	Turbidity	1.21	NTU

**Alabama Power Company
Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-13V	5/19/2021 11:48	Conductivity	553.87	uS/cm
BY-AP-MW-13V	5/19/2021 11:48	DO	0.28	mg/L
BY-AP-MW-13V	5/19/2021 11:48	Depth to Water Detail	20.16	ft
BY-AP-MW-13V	5/19/2021 11:48	Oxidation Reduction Potention	-3.98	mv
BY-AP-MW-13V	5/19/2021 11:48	pH	6.1	SU
BY-AP-MW-13V	5/19/2021 11:48	Temperature	20.68	C
BY-AP-MW-13V	5/19/2021 11:48	Turbidity	1.91	NTU
BY-AP-MW-13V	5/19/2021 11:53	Conductivity	547.49	uS/cm
BY-AP-MW-13V	5/19/2021 11:53	DO	0.31	mg/L
BY-AP-MW-13V	5/19/2021 11:53	Depth to Water Detail	20.16	ft
BY-AP-MW-13V	5/19/2021 11:53	Oxidation Reduction Potention	-12.15	mv
BY-AP-MW-13V	5/19/2021 11:53	pH	6.14	SU
BY-AP-MW-13V	5/19/2021 11:53	Temperature	20.62	C
BY-AP-MW-13V	5/19/2021 11:53	Turbidity	1.6	NTU
BY-AP-MW-13V	5/19/2021 11:58	Conductivity	539.47	uS/cm
BY-AP-MW-13V	5/19/2021 11:58	DO	0.31	mg/L
BY-AP-MW-13V	5/19/2021 11:58	Depth to Water Detail	20.16	ft
BY-AP-MW-13V	5/19/2021 11:58	Oxidation Reduction Potention	-19.92	mv
BY-AP-MW-13V	5/19/2021 11:58	pH	6.19	SU
BY-AP-MW-13V	5/19/2021 11:58	Temperature	20.73	C
BY-AP-MW-13V	5/19/2021 11:58	Turbidity	0.86	NTU
BY-AP-MW-13V	5/19/2021 12:03	Conductivity	541.08	uS/cm
BY-AP-MW-13V	5/19/2021 12:03	DO	0.31	mg/L
BY-AP-MW-13V	5/19/2021 12:03	Depth to Water Detail	20.16	ft
BY-AP-MW-13V	5/19/2021 12:03	Oxidation Reduction Potention	-24.64	mv
BY-AP-MW-13V	5/19/2021 12:03	pH	6.2	SU
BY-AP-MW-13V	5/19/2021 12:03	Temperature	20.67	C
BY-AP-MW-13V	5/19/2021 12:03	Turbidity	0.92	NTU

**Alabama Power Company
Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-13	5/19/2021 12:43	Conductivity	413.7	uS/cm
BY-AP-MW-13	5/19/2021 12:43	DO	0.07	mg/L
BY-AP-MW-13	5/19/2021 12:43	Depth to Water Detail	19.69	ft
BY-AP-MW-13	5/19/2021 12:43	Oxidation Reduction Potention	13.5	mv
BY-AP-MW-13	5/19/2021 12:43	pH	5.64	SU
BY-AP-MW-13	5/19/2021 12:43	Temperature	20.79	C
BY-AP-MW-13	5/19/2021 12:43	Turbidity	1.66	NTU
BY-AP-MW-13	5/19/2021 12:48	Conductivity	413.45	uS/cm
BY-AP-MW-13	5/19/2021 12:48	DO	0.07	mg/L
BY-AP-MW-13	5/19/2021 12:48	Depth to Water Detail	19.69	ft
BY-AP-MW-13	5/19/2021 12:48	Oxidation Reduction Potention	9.69	mv
BY-AP-MW-13	5/19/2021 12:48	pH	5.69	SU
BY-AP-MW-13	5/19/2021 12:48	Temperature	20.78	C
BY-AP-MW-13	5/19/2021 12:48	Turbidity	1.55	NTU
BY-AP-MW-13	5/19/2021 12:53	Conductivity	413.36	uS/cm
BY-AP-MW-13	5/19/2021 12:53	DO	0.06	mg/L
BY-AP-MW-13	5/19/2021 12:53	Depth to Water Detail	19.69	ft
BY-AP-MW-13	5/19/2021 12:53	Oxidation Reduction Potention	5.64	mv
BY-AP-MW-13	5/19/2021 12:53	pH	5.75	SU
BY-AP-MW-13	5/19/2021 12:53	Temperature	20.78	C
BY-AP-MW-13	5/19/2021 12:53	Turbidity	1.38	NTU
BY-AP-MW-13	5/19/2021 12:58	Conductivity	413.29	uS/cm
BY-AP-MW-13	5/19/2021 12:58	DO	0.06	mg/L
BY-AP-MW-13	5/19/2021 12:58	Depth to Water Detail	19.69	ft
BY-AP-MW-13	5/19/2021 12:58	Oxidation Reduction Potention	2.83	mv
BY-AP-MW-13	5/19/2021 12:58	pH	5.79	SU
BY-AP-MW-13	5/19/2021 12:58	Temperature	20.76	C
BY-AP-MW-13	5/19/2021 12:58	Turbidity	1.43	NTU

**Alabama Power Company
Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-12V	5/18/2021 12:25	Conductivity	592.98	uS/cm
BY-AP-MW-12V	5/18/2021 12:25	DO	0.1	mg/L
BY-AP-MW-12V	5/18/2021 12:25	Depth to Water Detail	18.36	ft
BY-AP-MW-12V	5/18/2021 12:25	Oxidation Reduction Potention	12.63	mv
BY-AP-MW-12V	5/18/2021 12:25	pH	5.82	SU
BY-AP-MW-12V	5/18/2021 12:25	Temperature	20.96	C
BY-AP-MW-12V	5/18/2021 12:25	Turbidity	9.05	NTU
BY-AP-MW-12V	5/18/2021 12:30	Conductivity	593.52	uS/cm
BY-AP-MW-12V	5/18/2021 12:30	DO	0.09	mg/L
BY-AP-MW-12V	5/18/2021 12:30	Depth to Water Detail	18.36	ft
BY-AP-MW-12V	5/18/2021 12:30	Oxidation Reduction Potention	-1.11	mv
BY-AP-MW-12V	5/18/2021 12:30	pH	5.83	SU
BY-AP-MW-12V	5/18/2021 12:30	Temperature	20.95	C
BY-AP-MW-12V	5/18/2021 12:30	Turbidity	9.9	NTU
BY-AP-MW-12V	5/18/2021 12:35	Conductivity	591.47	uS/cm
BY-AP-MW-12V	5/18/2021 12:35	DO	0.08	mg/L
BY-AP-MW-12V	5/18/2021 12:35	Depth to Water Detail	18.36	ft
BY-AP-MW-12V	5/18/2021 12:35	Oxidation Reduction Potention	-12.42	mv
BY-AP-MW-12V	5/18/2021 12:35	pH	5.87	SU
BY-AP-MW-12V	5/18/2021 12:35	Temperature	20.84	C
BY-AP-MW-12V	5/18/2021 12:35	Turbidity	5.63	NTU
BY-AP-MW-12V	5/18/2021 12:40	Conductivity	591.56	uS/cm
BY-AP-MW-12V	5/18/2021 12:40	DO	0.09	mg/L
BY-AP-MW-12V	5/18/2021 12:40	Depth to Water Detail	18.36	ft
BY-AP-MW-12V	5/18/2021 12:40	Oxidation Reduction Potention	-21.12	mv
BY-AP-MW-12V	5/18/2021 12:40	pH	5.92	SU
BY-AP-MW-12V	5/18/2021 12:40	Temperature	20.72	C
BY-AP-MW-12V	5/18/2021 12:40	Turbidity	5.21	NTU

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Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-1	5/18/2021 9:46	Conductivity	713.34	uS/cm
BY-AP-MW-1	5/18/2021 9:46	DO	0.13	mg/L
BY-AP-MW-1	5/18/2021 9:46	Depth to Water Detail	19.1	ft
BY-AP-MW-1	5/18/2021 9:46	Oxidation Reduction Potention	-112.56	mv
BY-AP-MW-1	5/18/2021 9:46	pH	5.83	SU
BY-AP-MW-1	5/18/2021 9:46	Temperature	21.62	C
BY-AP-MW-1	5/18/2021 9:46	Turbidity	9.53	NTU
BY-AP-MW-1	5/18/2021 9:51	Conductivity	628.45	uS/cm
BY-AP-MW-1	5/18/2021 9:51	DO	0.11	mg/L
BY-AP-MW-1	5/18/2021 9:51	Depth to Water Detail	19.1	ft
BY-AP-MW-1	5/18/2021 9:51	Oxidation Reduction Potention	-125.49	mv
BY-AP-MW-1	5/18/2021 9:51	pH	5.85	SU
BY-AP-MW-1	5/18/2021 9:51	Temperature	21.65	C
BY-AP-MW-1	5/18/2021 9:51	Turbidity	6.58	NTU
BY-AP-MW-1	5/18/2021 9:56	Conductivity	616.76	uS/cm
BY-AP-MW-1	5/18/2021 9:56	DO	0.1	mg/L
BY-AP-MW-1	5/18/2021 9:56	Depth to Water Detail	19.1	ft
BY-AP-MW-1	5/18/2021 9:56	Oxidation Reduction Potention	-129.92	mv
BY-AP-MW-1	5/18/2021 9:56	pH	5.86	SU
BY-AP-MW-1	5/18/2021 9:56	Temperature	21.71	C
BY-AP-MW-1	5/18/2021 9:56	Turbidity	5.66	NTU
BY-AP-MW-1	5/18/2021 10:01	Conductivity	733.78	uS/cm
BY-AP-MW-1	5/18/2021 10:01	DO	0.1	mg/L
BY-AP-MW-1	5/18/2021 10:01	Depth to Water Detail	19.1	ft
BY-AP-MW-1	5/18/2021 10:01	Oxidation Reduction Potention	-132.6	mv
BY-AP-MW-1	5/18/2021 10:01	pH	5.85	SU
BY-AP-MW-1	5/18/2021 10:01	Temperature	21.81	C
BY-AP-MW-1	5/18/2021 10:01	Turbidity	4.69	NTU
BY-AP-MW-1	5/18/2021 10:06	Conductivity	719.38	uS/cm
BY-AP-MW-1	5/18/2021 10:06	DO	0.1	mg/L
BY-AP-MW-1	5/18/2021 10:06	Depth to Water Detail	19.1	ft
BY-AP-MW-1	5/18/2021 10:06	Oxidation Reduction Potention	-135.32	mv
BY-AP-MW-1	5/18/2021 10:06	pH	5.86	SU
BY-AP-MW-1	5/18/2021 10:06	Temperature	21.82	C
BY-AP-MW-1	5/18/2021 10:06	Turbidity	3.97	NTU
BY-AP-MW-1	5/18/2021 10:11	Conductivity	606.23	uS/cm
BY-AP-MW-1	5/18/2021 10:11	DO	0.09	mg/L
BY-AP-MW-1	5/18/2021 10:11	Depth to Water Detail	19.1	ft
BY-AP-MW-1	5/18/2021 10:11	Oxidation Reduction Potention	-137.52	mv
BY-AP-MW-1	5/18/2021 10:11	pH	5.86	SU
BY-AP-MW-1	5/18/2021 10:11	Temperature	21.81	C
BY-AP-MW-1	5/18/2021 10:11	Turbidity	4.35	NTU
BY-AP-MW-1	5/18/2021 10:16	Conductivity	732.58	uS/cm
BY-AP-MW-1	5/18/2021 10:16	DO	0.1	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-1	5/18/2021 10:16	Depth to Water Detail	19.1	ft
BY-AP-MW-1	5/18/2021 10:16	Oxidation Reduction Potention	-136.13	mv
BY-AP-MW-1	5/18/2021 10:16	pH	5.85	SU
BY-AP-MW-1	5/18/2021 10:16	Temperature	21.83	C
BY-AP-MW-1	5/18/2021 10:16	Turbidity	5	NTU
BY-AP-MW-1	5/18/2021 10:21	Conductivity	711.13	uS/cm
BY-AP-MW-1	5/18/2021 10:21	DO	0.1	mg/L
BY-AP-MW-1	5/18/2021 10:21	Depth to Water Detail	19.1	ft
BY-AP-MW-1	5/18/2021 10:21	Oxidation Reduction Potention	-136.34	mv
BY-AP-MW-1	5/18/2021 10:21	pH	5.85	SU
BY-AP-MW-1	5/18/2021 10:21	Temperature	21.85	C
BY-AP-MW-1	5/18/2021 10:21	Turbidity	3.14	NTU
BY-AP-MW-1	5/18/2021 10:26	Conductivity	663.92	uS/cm
BY-AP-MW-1	5/18/2021 10:26	DO	0.1	mg/L
BY-AP-MW-1	5/18/2021 10:26	Depth to Water Detail	19.1	ft
BY-AP-MW-1	5/18/2021 10:26	Oxidation Reduction Potention	-137.91	mv
BY-AP-MW-1	5/18/2021 10:26	pH	5.86	SU
BY-AP-MW-1	5/18/2021 10:26	Temperature	22	C
BY-AP-MW-1	5/18/2021 10:26	Turbidity	3.68	NTU
BY-AP-MW-1	5/18/2021 10:31	Conductivity	662.06	uS/cm
BY-AP-MW-1	5/18/2021 10:31	DO	0.09	mg/L
BY-AP-MW-1	5/18/2021 10:31	Depth to Water Detail	19.1	ft
BY-AP-MW-1	5/18/2021 10:31	Oxidation Reduction Potention	-139.23	mv
BY-AP-MW-1	5/18/2021 10:31	pH	5.86	SU
BY-AP-MW-1	5/18/2021 10:31	Temperature	21.9	C
BY-AP-MW-1	5/18/2021 10:31	Turbidity	2.96	NTU
BY-AP-MW-1	5/18/2021 10:36	Conductivity	706.69	uS/cm
BY-AP-MW-1	5/18/2021 10:36	DO	0.1	mg/L
BY-AP-MW-1	5/18/2021 10:36	Depth to Water Detail	19.1	ft
BY-AP-MW-1	5/18/2021 10:36	Oxidation Reduction Potention	-137.91	mv
BY-AP-MW-1	5/18/2021 10:36	pH	5.84	SU
BY-AP-MW-1	5/18/2021 10:36	Temperature	21.9	C
BY-AP-MW-1	5/18/2021 10:36	Turbidity	3.34	NTU
BY-AP-MW-1	5/18/2021 10:41	Conductivity	725.49	uS/cm
BY-AP-MW-1	5/18/2021 10:41	DO	0.1	mg/L
BY-AP-MW-1	5/18/2021 10:41	Depth to Water Detail	19.1	ft
BY-AP-MW-1	5/18/2021 10:41	Oxidation Reduction Potention	-138.09	mv
BY-AP-MW-1	5/18/2021 10:41	pH	5.85	SU
BY-AP-MW-1	5/18/2021 10:41	Temperature	21.89	C
BY-AP-MW-1	5/18/2021 10:41	Turbidity	4.09	NTU
BY-AP-MW-1	5/18/2021 10:46	Conductivity	644.41	uS/cm
BY-AP-MW-1	5/18/2021 10:46	DO	0.09	mg/L
BY-AP-MW-1	5/18/2021 10:46	Depth to Water Detail	19.1	ft
BY-AP-MW-1	5/18/2021 10:46	Oxidation Reduction Potention	-139.03	mv

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-1	5/18/2021 10:46	pH	5.86	SU
BY-AP-MW-1	5/18/2021 10:46	Temperature	22.03	C
BY-AP-MW-1	5/18/2021 10:46	Turbidity	3.12	NTU
BY-AP-MW-1	5/18/2021 10:51	Conductivity	737.81	uS/cm
BY-AP-MW-1	5/18/2021 10:51	DO	0.09	mg/L
BY-AP-MW-1	5/18/2021 10:51	Depth to Water Detail	19.1	ft
BY-AP-MW-1	5/18/2021 10:51	Oxidation Reduction Potention	-141.05	mv
BY-AP-MW-1	5/18/2021 10:51	pH	5.87	SU
BY-AP-MW-1	5/18/2021 10:51	Temperature	21.88	C
BY-AP-MW-1	5/18/2021 10:51	Turbidity	2.81	NTU
BY-AP-MW-1	5/18/2021 10:56	Conductivity	710.63	uS/cm
BY-AP-MW-1	5/18/2021 10:56	DO	0.1	mg/L
BY-AP-MW-1	5/18/2021 10:56	Depth to Water Detail	19.1	ft
BY-AP-MW-1	5/18/2021 10:56	Oxidation Reduction Potention	-139.64	mv
BY-AP-MW-1	5/18/2021 10:56	pH	5.84	SU
BY-AP-MW-1	5/18/2021 10:56	Temperature	21.72	C
BY-AP-MW-1	5/18/2021 10:56	Turbidity	3.56	NTU
BY-AP-MW-1	5/18/2021 11:01	Conductivity	750.24	uS/cm
BY-AP-MW-1	5/18/2021 11:01	DO	0.09	mg/L
BY-AP-MW-1	5/18/2021 11:01	Depth to Water Detail	19.1	ft
BY-AP-MW-1	5/18/2021 11:01	Oxidation Reduction Potention	-140.13	mv
BY-AP-MW-1	5/18/2021 11:01	pH	5.85	SU
BY-AP-MW-1	5/18/2021 11:01	Temperature	21.73	C
BY-AP-MW-1	5/18/2021 11:01	Turbidity	3.18	NTU
BY-AP-MW-1	5/18/2021 11:06	Conductivity	759.04	uS/cm
BY-AP-MW-1	5/18/2021 11:06	DO	0.1	mg/L
BY-AP-MW-1	5/18/2021 11:06	Depth to Water Detail	19.1	ft
BY-AP-MW-1	5/18/2021 11:06	Oxidation Reduction Potention	-140.48	mv
BY-AP-MW-1	5/18/2021 11:06	pH	5.86	SU
BY-AP-MW-1	5/18/2021 11:06	Temperature	21.85	C
BY-AP-MW-1	5/18/2021 11:06	Turbidity	2.94	NTU
BY-AP-MW-1	5/18/2021 11:11	Conductivity	761.59	uS/cm
BY-AP-MW-1	5/18/2021 11:11	DO	0.1	mg/L
BY-AP-MW-1	5/18/2021 11:11	Depth to Water Detail	19.1	ft
BY-AP-MW-1	5/18/2021 11:11	Oxidation Reduction Potention	-139.4	mv
BY-AP-MW-1	5/18/2021 11:11	pH	5.86	SU
BY-AP-MW-1	5/18/2021 11:11	Temperature	22.1	C
BY-AP-MW-1	5/18/2021 11:11	Turbidity	3.04	NTU

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Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-1V	5/18/2021 8:28	Conductivity	339.2	uS/cm
BY-AP-MW-1V	5/18/2021 8:28	DO	0.18	mg/L
BY-AP-MW-1V	5/18/2021 8:28	Depth to Water Detail	20.28	ft
BY-AP-MW-1V	5/18/2021 8:28	Oxidation Reduction Potention	-19.62	mv
BY-AP-MW-1V	5/18/2021 8:28	pH	5.59	SU
BY-AP-MW-1V	5/18/2021 8:28	Temperature	21.09	C
BY-AP-MW-1V	5/18/2021 8:28	Turbidity	3.39	NTU
BY-AP-MW-1V	5/18/2021 8:33	Conductivity	335.27	uS/cm
BY-AP-MW-1V	5/18/2021 8:33	DO	0.14	mg/L
BY-AP-MW-1V	5/18/2021 8:33	Depth to Water Detail	20.28	ft
BY-AP-MW-1V	5/18/2021 8:33	Oxidation Reduction Potention	-31.13	mv
BY-AP-MW-1V	5/18/2021 8:33	pH	5.66	SU
BY-AP-MW-1V	5/18/2021 8:33	Temperature	21.1	C
BY-AP-MW-1V	5/18/2021 8:33	Turbidity	2.16	NTU
BY-AP-MW-1V	5/18/2021 8:38	Conductivity	331.26	uS/cm
BY-AP-MW-1V	5/18/2021 8:38	DO	0.12	mg/L
BY-AP-MW-1V	5/18/2021 8:38	Depth to Water Detail	20.28	ft
BY-AP-MW-1V	5/18/2021 8:38	Oxidation Reduction Potention	-29.09	mv
BY-AP-MW-1V	5/18/2021 8:38	pH	5.57	SU
BY-AP-MW-1V	5/18/2021 8:38	Temperature	21.11	C
BY-AP-MW-1V	5/18/2021 8:38	Turbidity	2.18	NTU
BY-AP-MW-1V	5/18/2021 8:43	Conductivity	329.63	uS/cm
BY-AP-MW-1V	5/18/2021 8:43	DO	0.11	mg/L
BY-AP-MW-1V	5/18/2021 8:43	Depth to Water Detail	20.28	ft
BY-AP-MW-1V	5/18/2021 8:43	Oxidation Reduction Potention	-33.75	mv
BY-AP-MW-1V	5/18/2021 8:43	pH	5.55	SU
BY-AP-MW-1V	5/18/2021 8:43	Temperature	21.1	C
BY-AP-MW-1V	5/18/2021 8:43	Turbidity	1.82	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-2	5/18/2021 11:47	Conductivity	57.29	uS/cm
BY-AP-MW-2	5/18/2021 11:47	DO	0.11	mg/L
BY-AP-MW-2	5/18/2021 11:47	Depth to Water Detail	17.8	ft
BY-AP-MW-2	5/18/2021 11:47	Oxidation Reduction Potention	84.24	mv
BY-AP-MW-2	5/18/2021 11:47	pH	5.7	SU
BY-AP-MW-2	5/18/2021 11:47	Temperature	22.59	C
BY-AP-MW-2	5/18/2021 11:47	Turbidity	7.64	NTU
BY-AP-MW-2	5/18/2021 11:52	Conductivity	58.27	uS/cm
BY-AP-MW-2	5/18/2021 11:52	DO	0.1	mg/L
BY-AP-MW-2	5/18/2021 11:52	Depth to Water Detail	17.8	ft
BY-AP-MW-2	5/18/2021 11:52	Oxidation Reduction Potention	78.42	mv
BY-AP-MW-2	5/18/2021 11:52	pH	5.79	SU
BY-AP-MW-2	5/18/2021 11:52	Temperature	22.77	C
BY-AP-MW-2	5/18/2021 11:52	Turbidity	1.19	NTU
BY-AP-MW-2	5/18/2021 11:57	Conductivity	58.1	uS/cm
BY-AP-MW-2	5/18/2021 11:57	DO	0.1	mg/L
BY-AP-MW-2	5/18/2021 11:57	Depth to Water Detail	17.8	ft
BY-AP-MW-2	5/18/2021 11:57	Oxidation Reduction Potention	77.09	mv
BY-AP-MW-2	5/18/2021 11:57	pH	5.82	SU
BY-AP-MW-2	5/18/2021 11:57	Temperature	22.28	C
BY-AP-MW-2	5/18/2021 11:57	Turbidity	1.11	NTU
BY-AP-MW-2	5/18/2021 12:02	Conductivity	58.01	uS/cm
BY-AP-MW-2	5/18/2021 12:02	DO	0.1	mg/L
BY-AP-MW-2	5/18/2021 12:02	Depth to Water Detail	17.8	ft
BY-AP-MW-2	5/18/2021 12:02	Oxidation Reduction Potention	75.18	mv
BY-AP-MW-2	5/18/2021 12:02	pH	5.83	SU
BY-AP-MW-2	5/18/2021 12:02	Temperature	22.11	C
BY-AP-MW-2	5/18/2021 12:02	Turbidity	1.09	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-3	5/18/2021 13:00	Conductivity	33.24	uS/cm
BY-AP-MW-3	5/18/2021 13:00	DO	2.32	mg/L
BY-AP-MW-3	5/18/2021 13:00	Depth to Water Detail	20.57	ft
BY-AP-MW-3	5/18/2021 13:00	Oxidation Reduction Potention	222.17	mv
BY-AP-MW-3	5/18/2021 13:00	pH	4.44	SU
BY-AP-MW-3	5/18/2021 13:00	Temperature	22.31	C
BY-AP-MW-3	5/18/2021 13:00	Turbidity	0.97	NTU
BY-AP-MW-3	5/18/2021 13:05	Conductivity	37.75	uS/cm
BY-AP-MW-3	5/18/2021 13:05	DO	2.47	mg/L
BY-AP-MW-3	5/18/2021 13:05	Depth to Water Detail	20.57	ft
BY-AP-MW-3	5/18/2021 13:05	Oxidation Reduction Potention	229.05	mv
BY-AP-MW-3	5/18/2021 13:05	pH	4.61	SU
BY-AP-MW-3	5/18/2021 13:05	Temperature	22.25	C
BY-AP-MW-3	5/18/2021 13:05	Turbidity	0.43	NTU
BY-AP-MW-3	5/18/2021 13:10	Conductivity	40.38	uS/cm
BY-AP-MW-3	5/18/2021 13:10	DO	2.45	mg/L
BY-AP-MW-3	5/18/2021 13:10	Depth to Water Detail	20.57	ft
BY-AP-MW-3	5/18/2021 13:10	Oxidation Reduction Potention	231.14	mv
BY-AP-MW-3	5/18/2021 13:10	pH	4.75	SU
BY-AP-MW-3	5/18/2021 13:10	Temperature	22.17	C
BY-AP-MW-3	5/18/2021 13:10	Turbidity	0.86	NTU
BY-AP-MW-3	5/18/2021 13:15	Conductivity	41.71	uS/cm
BY-AP-MW-3	5/18/2021 13:15	DO	2.43	mg/L
BY-AP-MW-3	5/18/2021 13:15	Depth to Water Detail	20.57	ft
BY-AP-MW-3	5/18/2021 13:15	Oxidation Reduction Potention	229.76	mv
BY-AP-MW-3	5/18/2021 13:15	pH	4.87	SU
BY-AP-MW-3	5/18/2021 13:15	Temperature	22.16	C
BY-AP-MW-3	5/18/2021 13:15	Turbidity	0.82	NTU
BY-AP-MW-3	5/18/2021 13:20	Conductivity	42.81	uS/cm
BY-AP-MW-3	5/18/2021 13:20	DO	2.42	mg/L
BY-AP-MW-3	5/18/2021 13:20	Depth to Water Detail	20.57	ft
BY-AP-MW-3	5/18/2021 13:20	Oxidation Reduction Potention	235.69	mv
BY-AP-MW-3	5/18/2021 13:20	pH	4.84	SU
BY-AP-MW-3	5/18/2021 13:20	Temperature	22.35	C
BY-AP-MW-3	5/18/2021 13:20	Turbidity	0.76	NTU
BY-AP-MW-3	5/18/2021 13:25	Conductivity	42.9	uS/cm
BY-AP-MW-3	5/18/2021 13:25	DO	2.43	mg/L
BY-AP-MW-3	5/18/2021 13:25	Depth to Water Detail	20.57	ft
BY-AP-MW-3	5/18/2021 13:25	Oxidation Reduction Potention	232.63	mv
BY-AP-MW-3	5/18/2021 13:25	pH	4.93	SU
BY-AP-MW-3	5/18/2021 13:25	Temperature	22.26	C
BY-AP-MW-3	5/18/2021 13:25	Turbidity	0.72	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-4	5/18/2021 14:11	Conductivity	49.38	uS/cm
BY-AP-MW-4	5/18/2021 14:11	DO	0.36	mg/L
BY-AP-MW-4	5/18/2021 14:11	Depth to Water Detail	20.18	ft
BY-AP-MW-4	5/18/2021 14:11	Oxidation Reduction Potention	303.47	mv
BY-AP-MW-4	5/18/2021 14:11	pH	3.89	SU
BY-AP-MW-4	5/18/2021 14:11	Temperature	21.68	C
BY-AP-MW-4	5/18/2021 14:11	Turbidity	2.37	NTU
BY-AP-MW-4	5/18/2021 14:16	Conductivity	48.95	uS/cm
BY-AP-MW-4	5/18/2021 14:16	DO	0.41	mg/L
BY-AP-MW-4	5/18/2021 14:16	Depth to Water Detail	20.18	ft
BY-AP-MW-4	5/18/2021 14:16	Oxidation Reduction Potention	310.66	mv
BY-AP-MW-4	5/18/2021 14:16	pH	3.98	SU
BY-AP-MW-4	5/18/2021 14:16	Temperature	21.74	C
BY-AP-MW-4	5/18/2021 14:16	Turbidity	2.36	NTU
BY-AP-MW-4	5/18/2021 14:21	Conductivity	48.92	uS/cm
BY-AP-MW-4	5/18/2021 14:21	DO	0.34	mg/L
BY-AP-MW-4	5/18/2021 14:21	Depth to Water Detail	20.18	ft
BY-AP-MW-4	5/18/2021 14:21	Oxidation Reduction Potention	312.49	mv
BY-AP-MW-4	5/18/2021 14:21	pH	4.1	SU
BY-AP-MW-4	5/18/2021 14:21	Temperature	21.77	C
BY-AP-MW-4	5/18/2021 14:21	Turbidity	2.13	NTU
BY-AP-MW-4	5/18/2021 14:26	Conductivity	49.28	uS/cm
BY-AP-MW-4	5/18/2021 14:26	DO	0.28	mg/L
BY-AP-MW-4	5/18/2021 14:26	Depth to Water Detail	20.18	ft
BY-AP-MW-4	5/18/2021 14:26	Oxidation Reduction Potention	314.24	mv
BY-AP-MW-4	5/18/2021 14:26	pH	4.17	SU
BY-AP-MW-4	5/18/2021 14:26	Temperature	21.85	C
BY-AP-MW-4	5/18/2021 14:26	Turbidity	1.98	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-6	5/17/2021 14:03	Conductivity	53.29	uS/cm
BY-AP-MW-6	5/17/2021 14:03	DO	0.1	mg/L
BY-AP-MW-6	5/17/2021 14:03	Depth to Water Detail	20.68	ft
BY-AP-MW-6	5/17/2021 14:03	Oxidation Reduction Potention	152.41	mv
BY-AP-MW-6	5/17/2021 14:03	pH	5	SU
BY-AP-MW-6	5/17/2021 14:03	Temperature	21.43	C
BY-AP-MW-6	5/17/2021 14:03	Turbidity	0.64	NTU
BY-AP-MW-6	5/17/2021 14:08	Conductivity	53.66	uS/cm
BY-AP-MW-6	5/17/2021 14:08	DO	0.1	mg/L
BY-AP-MW-6	5/17/2021 14:08	Depth to Water Detail	20.68	ft
BY-AP-MW-6	5/17/2021 14:08	Oxidation Reduction Potention	141.95	mv
BY-AP-MW-6	5/17/2021 14:08	pH	5.12	SU
BY-AP-MW-6	5/17/2021 14:08	Temperature	21.31	C
BY-AP-MW-6	5/17/2021 14:08	Turbidity	0.58	NTU
BY-AP-MW-6	5/17/2021 14:13	Conductivity	54.05	uS/cm
BY-AP-MW-6	5/17/2021 14:13	DO	0.1	mg/L
BY-AP-MW-6	5/17/2021 14:13	Depth to Water Detail	20.68	ft
BY-AP-MW-6	5/17/2021 14:13	Oxidation Reduction Potention	130.48	mv
BY-AP-MW-6	5/17/2021 14:13	pH	5.19	SU
BY-AP-MW-6	5/17/2021 14:13	Temperature	21.32	C
BY-AP-MW-6	5/17/2021 14:13	Turbidity	0.46	NTU
BY-AP-MW-6	5/17/2021 14:18	Conductivity	54.42	uS/cm
BY-AP-MW-6	5/17/2021 14:18	DO	0.1	mg/L
BY-AP-MW-6	5/17/2021 14:18	Depth to Water Detail	20.68	ft
BY-AP-MW-6	5/17/2021 14:18	Oxidation Reduction Potention	123.27	mv
BY-AP-MW-6	5/17/2021 14:18	pH	5.21	SU
BY-AP-MW-6	5/17/2021 14:18	Temperature	21.42	C
BY-AP-MW-6	5/17/2021 14:18	Turbidity	0.48	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-16	5/19/2021 11:38	Conductivity	425.94	uS/cm
BY-AP-MW-16	5/19/2021 11:38	DO	0.18	mg/L
BY-AP-MW-16	5/19/2021 11:38	Depth to Water Detail	19.85	ft
BY-AP-MW-16	5/19/2021 11:38	Oxidation Reduction Potention	-15.48	mv
BY-AP-MW-16	5/19/2021 11:38	pH	5.76	SU
BY-AP-MW-16	5/19/2021 11:38	Temperature	21.91	C
BY-AP-MW-16	5/19/2021 11:38	Turbidity	17.5	NTU
BY-AP-MW-16	5/19/2021 11:43	Conductivity	428.68	uS/cm
BY-AP-MW-16	5/19/2021 11:43	DO	0.15	mg/L
BY-AP-MW-16	5/19/2021 11:43	Depth to Water Detail	19.85	ft
BY-AP-MW-16	5/19/2021 11:43	Oxidation Reduction Potention	-22.34	mv
BY-AP-MW-16	5/19/2021 11:43	pH	5.79	SU
BY-AP-MW-16	5/19/2021 11:43	Temperature	21.96	C
BY-AP-MW-16	5/19/2021 11:43	Turbidity	10.94	NTU
BY-AP-MW-16	5/19/2021 11:48	Conductivity	429.98	uS/cm
BY-AP-MW-16	5/19/2021 11:48	DO	0.14	mg/L
BY-AP-MW-16	5/19/2021 11:48	Depth to Water Detail	19.85	ft
BY-AP-MW-16	5/19/2021 11:48	Oxidation Reduction Potention	-27.29	mv
BY-AP-MW-16	5/19/2021 11:48	pH	5.81	SU
BY-AP-MW-16	5/19/2021 11:48	Temperature	22	C
BY-AP-MW-16	5/19/2021 11:48	Turbidity	10.86	NTU
BY-AP-MW-16	5/19/2021 11:53	Conductivity	422.64	uS/cm
BY-AP-MW-16	5/19/2021 11:53	DO	0.13	mg/L
BY-AP-MW-16	5/19/2021 11:53	Depth to Water Detail	19.85	ft
BY-AP-MW-16	5/19/2021 11:53	Oxidation Reduction Potention	-30.11	mv
BY-AP-MW-16	5/19/2021 11:53	pH	5.79	SU
BY-AP-MW-16	5/19/2021 11:53	Temperature	22.06	C
BY-AP-MW-16	5/19/2021 11:53	Turbidity	9.86	NTU
BY-AP-MW-16	5/19/2021 11:58	Conductivity	421.75	uS/cm
BY-AP-MW-16	5/19/2021 11:58	DO	0.13	mg/L
BY-AP-MW-16	5/19/2021 11:58	Depth to Water Detail	19.85	ft
BY-AP-MW-16	5/19/2021 11:58	Oxidation Reduction Potention	-33.29	mv
BY-AP-MW-16	5/19/2021 11:58	pH	5.8	SU
BY-AP-MW-16	5/19/2021 11:58	Temperature	22.16	C
BY-AP-MW-16	5/19/2021 11:58	Turbidity	7.93	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-18H	5/19/2021 8:36	Conductivity	487.19	uS/cm
BY-AP-MW-18H	5/19/2021 8:36	DO	0.2	mg/L
BY-AP-MW-18H	5/19/2021 8:36	Depth to Water Detail	5.69	ft
BY-AP-MW-18H	5/19/2021 8:36	Oxidation Reduction Potention	-138.74	mv
BY-AP-MW-18H	5/19/2021 8:36	pH	6.19	SU
BY-AP-MW-18H	5/19/2021 8:36	Temperature	20.11	C
BY-AP-MW-18H	5/19/2021 8:36	Turbidity	6.75	NTU
BY-AP-MW-18H	5/19/2021 8:41	Conductivity	470.47	uS/cm
BY-AP-MW-18H	5/19/2021 8:41	DO	0.18	mg/L
BY-AP-MW-18H	5/19/2021 8:41	Depth to Water Detail	5.69	ft
BY-AP-MW-18H	5/19/2021 8:41	Oxidation Reduction Potention	-106.54	mv
BY-AP-MW-18H	5/19/2021 8:41	pH	6.21	SU
BY-AP-MW-18H	5/19/2021 8:41	Temperature	20.12	C
BY-AP-MW-18H	5/19/2021 8:41	Turbidity	5.27	NTU
BY-AP-MW-18H	5/19/2021 8:46	Conductivity	487.84	uS/cm
BY-AP-MW-18H	5/19/2021 8:46	DO	0.16	mg/L
BY-AP-MW-18H	5/19/2021 8:46	Depth to Water Detail	5.69	ft
BY-AP-MW-18H	5/19/2021 8:46	Oxidation Reduction Potention	-97.45	mv
BY-AP-MW-18H	5/19/2021 8:46	pH	6.22	SU
BY-AP-MW-18H	5/19/2021 8:46	Temperature	20.14	C
BY-AP-MW-18H	5/19/2021 8:46	Turbidity	4.09	NTU
BY-AP-MW-18H	5/19/2021 8:51	Conductivity	458.91	uS/cm
BY-AP-MW-18H	5/19/2021 8:51	DO	0.15	mg/L
BY-AP-MW-18H	5/19/2021 8:51	Depth to Water Detail	5.69	ft
BY-AP-MW-18H	5/19/2021 8:51	Oxidation Reduction Potention	-92.74	mv
BY-AP-MW-18H	5/19/2021 8:51	pH	6.22	SU
BY-AP-MW-18H	5/19/2021 8:51	Temperature	20.13	C
BY-AP-MW-18H	5/19/2021 8:51	Turbidity	4.76	NTU
BY-AP-MW-18H	5/19/2021 8:56	Conductivity	479.96	uS/cm
BY-AP-MW-18H	5/19/2021 8:56	DO	0.15	mg/L
BY-AP-MW-18H	5/19/2021 8:56	Depth to Water Detail	5.69	ft
BY-AP-MW-18H	5/19/2021 8:56	Oxidation Reduction Potention	-88.6	mv
BY-AP-MW-18H	5/19/2021 8:56	pH	6.23	SU
BY-AP-MW-18H	5/19/2021 8:56	Temperature	20.15	C
BY-AP-MW-18H	5/19/2021 8:56	Turbidity	3.17	NTU
BY-AP-MW-18H	5/19/2021 9:01	Conductivity	467.23	uS/cm
BY-AP-MW-18H	5/19/2021 9:01	DO	0.15	mg/L
BY-AP-MW-18H	5/19/2021 9:01	Depth to Water Detail	5.69	ft
BY-AP-MW-18H	5/19/2021 9:01	Oxidation Reduction Potention	-85.97	mv
BY-AP-MW-18H	5/19/2021 9:01	pH	6.23	SU
BY-AP-MW-18H	5/19/2021 9:01	Temperature	20.15	C
BY-AP-MW-18H	5/19/2021 9:01	Turbidity	2.88	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-11	5/19/2021 9:48	Conductivity	690.63	uS/cm
BY-AP-MW-11	5/19/2021 9:48	DO	0.14	mg/L
BY-AP-MW-11	5/19/2021 9:48	Depth to Water Detail	18.49	ft
BY-AP-MW-11	5/19/2021 9:48	Oxidation Reduction Potention	-92.72	mv
BY-AP-MW-11	5/19/2021 9:48	pH	6.45	SU
BY-AP-MW-11	5/19/2021 9:48	Temperature	21.04	C
BY-AP-MW-11	5/19/2021 9:48	Turbidity	84.5	NTU
BY-AP-MW-11	5/19/2021 9:53	Conductivity	674.03	uS/cm
BY-AP-MW-11	5/19/2021 9:53	DO	0.12	mg/L
BY-AP-MW-11	5/19/2021 9:53	Depth to Water Detail	18.49	ft
BY-AP-MW-11	5/19/2021 9:53	Oxidation Reduction Potention	-91.66	mv
BY-AP-MW-11	5/19/2021 9:53	pH	6.42	SU
BY-AP-MW-11	5/19/2021 9:53	Temperature	21.09	C
BY-AP-MW-11	5/19/2021 9:53	Turbidity	56.1	NTU
BY-AP-MW-11	5/19/2021 9:58	Conductivity	666.88	uS/cm
BY-AP-MW-11	5/19/2021 9:58	DO	0.12	mg/L
BY-AP-MW-11	5/19/2021 9:58	Depth to Water Detail	18.49	ft
BY-AP-MW-11	5/19/2021 9:58	Oxidation Reduction Potention	-89.85	mv
BY-AP-MW-11	5/19/2021 9:58	pH	6.39	SU
BY-AP-MW-11	5/19/2021 9:58	Temperature	21.11	C
BY-AP-MW-11	5/19/2021 9:58	Turbidity	45.7	NTU
BY-AP-MW-11	5/19/2021 10:03	Conductivity	653.67	uS/cm
BY-AP-MW-11	5/19/2021 10:03	DO	0.11	mg/L
BY-AP-MW-11	5/19/2021 10:03	Depth to Water Detail	18.49	ft
BY-AP-MW-11	5/19/2021 10:03	Oxidation Reduction Potention	-88.4	mv
BY-AP-MW-11	5/19/2021 10:03	pH	6.37	SU
BY-AP-MW-11	5/19/2021 10:03	Temperature	21.02	C
BY-AP-MW-11	5/19/2021 10:03	Turbidity	38	NTU
BY-AP-MW-11	5/19/2021 10:08	Conductivity	649.18	uS/cm
BY-AP-MW-11	5/19/2021 10:08	DO	0.11	mg/L
BY-AP-MW-11	5/19/2021 10:08	Depth to Water Detail	18.49	ft
BY-AP-MW-11	5/19/2021 10:08	Oxidation Reduction Potention	-88.49	mv
BY-AP-MW-11	5/19/2021 10:08	pH	6.37	SU
BY-AP-MW-11	5/19/2021 10:08	Temperature	20.99	C
BY-AP-MW-11	5/19/2021 10:08	Turbidity	26.5	NTU
BY-AP-MW-11	5/19/2021 10:13	Conductivity	645.05	uS/cm
BY-AP-MW-11	5/19/2021 10:13	DO	0.11	mg/L
BY-AP-MW-11	5/19/2021 10:13	Depth to Water Detail	18.49	ft
BY-AP-MW-11	5/19/2021 10:13	Oxidation Reduction Potention	-88.65	mv
BY-AP-MW-11	5/19/2021 10:13	pH	6.37	SU
BY-AP-MW-11	5/19/2021 10:13	Temperature	21	C
BY-AP-MW-11	5/19/2021 10:13	Turbidity	21.8	NTU
BY-AP-MW-11	5/19/2021 10:18	Conductivity	640.88	uS/cm
BY-AP-MW-11	5/19/2021 10:18	DO	0.1	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-11	5/19/2021 10:18	Depth to Water Detail	18.49	ft
BY-AP-MW-11	5/19/2021 10:18	Oxidation Reduction Potention	-89.1	mv
BY-AP-MW-11	5/19/2021 10:18	pH	6.36	SU
BY-AP-MW-11	5/19/2021 10:18	Temperature	21.01	C
BY-AP-MW-11	5/19/2021 10:18	Turbidity	19.5	NTU
BY-AP-MW-11	5/19/2021 10:23	Conductivity	640.57	uS/cm
BY-AP-MW-11	5/19/2021 10:23	DO	0.1	mg/L
BY-AP-MW-11	5/19/2021 10:23	Depth to Water Detail	18.49	ft
BY-AP-MW-11	5/19/2021 10:23	Oxidation Reduction Potention	-89.04	mv
BY-AP-MW-11	5/19/2021 10:23	pH	6.34	SU
BY-AP-MW-11	5/19/2021 10:23	Temperature	21.03	C
BY-AP-MW-11	5/19/2021 10:23	Turbidity	14.5	NTU
BY-AP-MW-11	5/19/2021 10:28	Conductivity	637.16	uS/cm
BY-AP-MW-11	5/19/2021 10:28	DO	0.1	mg/L
BY-AP-MW-11	5/19/2021 10:28	Depth to Water Detail	18.49	ft
BY-AP-MW-11	5/19/2021 10:28	Oxidation Reduction Potention	-90.06	mv
BY-AP-MW-11	5/19/2021 10:28	pH	6.34	SU
BY-AP-MW-11	5/19/2021 10:28	Temperature	20.93	C
BY-AP-MW-11	5/19/2021 10:28	Turbidity	12.3	NTU
BY-AP-MW-11	5/19/2021 10:33	Conductivity	632.79	uS/cm
BY-AP-MW-11	5/19/2021 10:33	DO	0.1	mg/L
BY-AP-MW-11	5/19/2021 10:33	Depth to Water Detail	18.49	ft
BY-AP-MW-11	5/19/2021 10:33	Oxidation Reduction Potention	-91.03	mv
BY-AP-MW-11	5/19/2021 10:33	pH	6.34	SU
BY-AP-MW-11	5/19/2021 10:33	Temperature	20.94	C
BY-AP-MW-11	5/19/2021 10:33	Turbidity	11.18	NTU
BY-AP-MW-11	5/19/2021 10:38	Conductivity	628.26	uS/cm
BY-AP-MW-11	5/19/2021 10:38	DO	0.1	mg/L
BY-AP-MW-11	5/19/2021 10:38	Depth to Water Detail	18.49	ft
BY-AP-MW-11	5/19/2021 10:38	Oxidation Reduction Potention	-91.79	mv
BY-AP-MW-11	5/19/2021 10:38	pH	6.35	SU
BY-AP-MW-11	5/19/2021 10:38	Temperature	20.96	C
BY-AP-MW-11	5/19/2021 10:38	Turbidity	10.24	NTU
BY-AP-MW-11	5/19/2021 10:43	Conductivity	617.68	uS/cm
BY-AP-MW-11	5/19/2021 10:43	DO	0.1	mg/L
BY-AP-MW-11	5/19/2021 10:43	Depth to Water Detail	18.49	ft
BY-AP-MW-11	5/19/2021 10:43	Oxidation Reduction Potention	-91.28	mv
BY-AP-MW-11	5/19/2021 10:43	pH	6.32	SU
BY-AP-MW-11	5/19/2021 10:43	Temperature	20.98	C
BY-AP-MW-11	5/19/2021 10:43	Turbidity	9.35	NTU
BY-AP-MW-11	5/19/2021 10:48	Conductivity	614.81	uS/cm
BY-AP-MW-11	5/19/2021 10:48	DO	0.1	mg/L
BY-AP-MW-11	5/19/2021 10:48	Depth to Water Detail	18.49	ft
BY-AP-MW-11	5/19/2021 10:48	Oxidation Reduction Potention	-92.49	mv

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-11	5/19/2021 10:48	pH	6.33	SU
BY-AP-MW-11	5/19/2021 10:48	Temperature	20.89	C
BY-AP-MW-11	5/19/2021 10:48	Turbidity	8.69	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-23V	5/17/2021 12:59	Conductivity	563.57	uS/cm
BY-AP-MW-23V	5/17/2021 12:59	DO	0.18	mg/L
BY-AP-MW-23V	5/17/2021 12:59	Depth to Water Detail	9.58	ft
BY-AP-MW-23V	5/17/2021 12:59	Oxidation Reduction Potention	-194.45	mv
BY-AP-MW-23V	5/17/2021 12:59	pH	7.41	SU
BY-AP-MW-23V	5/17/2021 12:59	Temperature	20.59	C
BY-AP-MW-23V	5/17/2021 12:59	Turbidity	21.4	NTU
BY-AP-MW-23V	5/17/2021 13:04	Conductivity	557.48	uS/cm
BY-AP-MW-23V	5/17/2021 13:04	DO	0.16	mg/L
BY-AP-MW-23V	5/17/2021 13:04	Depth to Water Detail	9.58	ft
BY-AP-MW-23V	5/17/2021 13:04	Oxidation Reduction Potention	-209.82	mv
BY-AP-MW-23V	5/17/2021 13:04	pH	7.63	SU
BY-AP-MW-23V	5/17/2021 13:04	Temperature	20.35	C
BY-AP-MW-23V	5/17/2021 13:04	Turbidity	13	NTU
BY-AP-MW-23V	5/17/2021 13:09	Conductivity	624.91	uS/cm
BY-AP-MW-23V	5/17/2021 13:09	DO	0.15	mg/L
BY-AP-MW-23V	5/17/2021 13:09	Depth to Water Detail	9.58	ft
BY-AP-MW-23V	5/17/2021 13:09	Oxidation Reduction Potention	-212.36	mv
BY-AP-MW-23V	5/17/2021 13:09	pH	7.78	SU
BY-AP-MW-23V	5/17/2021 13:09	Temperature	20.43	C
BY-AP-MW-23V	5/17/2021 13:09	Turbidity	9.35	NTU
BY-AP-MW-23V	5/17/2021 13:14	Conductivity	626.33	uS/cm
BY-AP-MW-23V	5/17/2021 13:14	DO	0.16	mg/L
BY-AP-MW-23V	5/17/2021 13:14	Depth to Water Detail	9.58	ft
BY-AP-MW-23V	5/17/2021 13:14	Oxidation Reduction Potention	-211.47	mv
BY-AP-MW-23V	5/17/2021 13:14	pH	7.87	SU
BY-AP-MW-23V	5/17/2021 13:14	Temperature	20.39	C
BY-AP-MW-23V	5/17/2021 13:14	Turbidity	7.55	NTU
BY-AP-MW-23V	5/17/2021 13:19	Conductivity	627.93	uS/cm
BY-AP-MW-23V	5/17/2021 13:19	DO	0.16	mg/L
BY-AP-MW-23V	5/17/2021 13:19	Depth to Water Detail	9.58	ft
BY-AP-MW-23V	5/17/2021 13:19	Oxidation Reduction Potention	-211.44	mv
BY-AP-MW-23V	5/17/2021 13:19	pH	7.87	SU
BY-AP-MW-23V	5/17/2021 13:19	Temperature	20.52	C
BY-AP-MW-23V	5/17/2021 13:19	Turbidity	6.48	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-16V	5/19/2021 13:14	Conductivity	345.8	uS/cm
BY-AP-MW-16V	5/19/2021 13:14	DO	0.1	mg/L
BY-AP-MW-16V	5/19/2021 13:14	Depth to Water Detail	18.47	ft
BY-AP-MW-16V	5/19/2021 13:14	Oxidation Reduction Potention	82.87	mv
BY-AP-MW-16V	5/19/2021 13:14	pH	5.15	SU
BY-AP-MW-16V	5/19/2021 13:14	Temperature	21.84	C
BY-AP-MW-16V	5/19/2021 13:14	Turbidity	2.51	NTU
BY-AP-MW-16V	5/19/2021 13:19	Conductivity	346.05	uS/cm
BY-AP-MW-16V	5/19/2021 13:19	DO	0.1	mg/L
BY-AP-MW-16V	5/19/2021 13:19	Depth to Water Detail	18.47	ft
BY-AP-MW-16V	5/19/2021 13:19	Oxidation Reduction Potention	81.52	mv
BY-AP-MW-16V	5/19/2021 13:19	pH	5.17	SU
BY-AP-MW-16V	5/19/2021 13:19	Temperature	21.74	C
BY-AP-MW-16V	5/19/2021 13:19	Turbidity	1.72	NTU
BY-AP-MW-16V	5/19/2021 13:24	Conductivity	346.03	uS/cm
BY-AP-MW-16V	5/19/2021 13:24	DO	0.1	mg/L
BY-AP-MW-16V	5/19/2021 13:24	Depth to Water Detail	18.47	ft
BY-AP-MW-16V	5/19/2021 13:24	Oxidation Reduction Potention	78.51	mv
BY-AP-MW-16V	5/19/2021 13:24	pH	5.2	SU
BY-AP-MW-16V	5/19/2021 13:24	Temperature	21.93	C
BY-AP-MW-16V	5/19/2021 13:24	Turbidity	1.61	NTU
BY-AP-MW-16V	5/19/2021 13:29	Conductivity	346.65	uS/cm
BY-AP-MW-16V	5/19/2021 13:29	DO	0.11	mg/L
BY-AP-MW-16V	5/19/2021 13:29	Depth to Water Detail	18.47	ft
BY-AP-MW-16V	5/19/2021 13:29	Oxidation Reduction Potention	74.31	mv
BY-AP-MW-16V	5/19/2021 13:29	pH	5.24	SU
BY-AP-MW-16V	5/19/2021 13:29	Temperature	21.8	C
BY-AP-MW-16V	5/19/2021 13:29	Turbidity	1.74	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-17V	5/18/2021 8:09	Conductivity	1191.16	uS/cm
BY-AP-MW-17V	5/18/2021 8:09	DO	0.27	mg/L
BY-AP-MW-17V	5/18/2021 8:09	Depth to Water Detail	15.08	ft
BY-AP-MW-17V	5/18/2021 8:09	Oxidation Reduction Potention	74.81	mv
BY-AP-MW-17V	5/18/2021 8:09	pH	6.51	SU
BY-AP-MW-17V	5/18/2021 8:09	Temperature	21.15	C
BY-AP-MW-17V	5/18/2021 8:09	Turbidity	2.43	NTU
BY-AP-MW-17V	5/18/2021 8:14	Conductivity	871.9	uS/cm
BY-AP-MW-17V	5/18/2021 8:14	DO	0.23	mg/L
BY-AP-MW-17V	5/18/2021 8:14	Depth to Water Detail	15.08	ft
BY-AP-MW-17V	5/18/2021 8:14	Oxidation Reduction Potention	58.22	mv
BY-AP-MW-17V	5/18/2021 8:14	pH	6.53	SU
BY-AP-MW-17V	5/18/2021 8:14	Temperature	21.16	C
BY-AP-MW-17V	5/18/2021 8:14	Turbidity	3.19	NTU
BY-AP-MW-17V	5/18/2021 8:19	Conductivity	856.26	uS/cm
BY-AP-MW-17V	5/18/2021 8:19	DO	0.23	mg/L
BY-AP-MW-17V	5/18/2021 8:19	Depth to Water Detail	15.08	ft
BY-AP-MW-17V	5/18/2021 8:19	Oxidation Reduction Potention	48.67	mv
BY-AP-MW-17V	5/18/2021 8:19	pH	6.54	SU
BY-AP-MW-17V	5/18/2021 8:19	Temperature	21.13	C
BY-AP-MW-17V	5/18/2021 8:19	Turbidity	3.33	NTU
BY-AP-MW-17V	5/18/2021 8:24	Conductivity	851.31	uS/cm
BY-AP-MW-17V	5/18/2021 8:24	DO	0.22	mg/L
BY-AP-MW-17V	5/18/2021 8:24	Depth to Water Detail	15.08	ft
BY-AP-MW-17V	5/18/2021 8:24	Oxidation Reduction Potention	41.82	mv
BY-AP-MW-17V	5/18/2021 8:24	pH	6.54	SU
BY-AP-MW-17V	5/18/2021 8:24	Temperature	21.16	C
BY-AP-MW-17V	5/18/2021 8:24	Turbidity	3.31	NTU
BY-AP-MW-17V	5/18/2021 8:29	Conductivity	833.21	uS/cm
BY-AP-MW-17V	5/18/2021 8:29	DO	0.22	mg/L
BY-AP-MW-17V	5/18/2021 8:29	Depth to Water Detail	15.08	ft
BY-AP-MW-17V	5/18/2021 8:29	Oxidation Reduction Potention	36.57	mv
BY-AP-MW-17V	5/18/2021 8:29	pH	6.55	SU
BY-AP-MW-17V	5/18/2021 8:29	Temperature	21.18	C
BY-AP-MW-17V	5/18/2021 8:29	Turbidity	3.15	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-7	5/18/2021 13:48	Conductivity	373.09	uS/cm
BY-AP-MW-7	5/18/2021 13:48	DO	0.25	mg/L
BY-AP-MW-7	5/18/2021 13:48	Depth to Water Detail	18.95	ft
BY-AP-MW-7	5/18/2021 13:48	Oxidation Reduction Potention	68.16	mv
BY-AP-MW-7	5/18/2021 13:48	pH	6.74	SU
BY-AP-MW-7	5/18/2021 13:48	Temperature	21.96	C
BY-AP-MW-7	5/18/2021 13:48	Turbidity	7.4	NTU
BY-AP-MW-7	5/18/2021 13:53	Conductivity	355.42	uS/cm
BY-AP-MW-7	5/18/2021 13:53	DO	0.19	mg/L
BY-AP-MW-7	5/18/2021 13:53	Depth to Water Detail	18.95	ft
BY-AP-MW-7	5/18/2021 13:53	Oxidation Reduction Potention	57.82	mv
BY-AP-MW-7	5/18/2021 13:53	pH	6.54	SU
BY-AP-MW-7	5/18/2021 13:53	Temperature	21.9	C
BY-AP-MW-7	5/18/2021 13:53	Turbidity	3.51	NTU
BY-AP-MW-7	5/18/2021 13:58	Conductivity	344.45	uS/cm
BY-AP-MW-7	5/18/2021 13:58	DO	0.18	mg/L
BY-AP-MW-7	5/18/2021 13:58	Depth to Water Detail	18.95	ft
BY-AP-MW-7	5/18/2021 13:58	Oxidation Reduction Potention	42.23	mv
BY-AP-MW-7	5/18/2021 13:58	pH	6.45	SU
BY-AP-MW-7	5/18/2021 13:58	Temperature	21.9	C
BY-AP-MW-7	5/18/2021 13:58	Turbidity	2.06	NTU
BY-AP-MW-7	5/18/2021 14:03	Conductivity	332.73	uS/cm
BY-AP-MW-7	5/18/2021 14:03	DO	0.17	mg/L
BY-AP-MW-7	5/18/2021 14:03	Depth to Water Detail	18.95	ft
BY-AP-MW-7	5/18/2021 14:03	Oxidation Reduction Potention	27.32	mv
BY-AP-MW-7	5/18/2021 14:03	pH	6.4	SU
BY-AP-MW-7	5/18/2021 14:03	Temperature	21.75	C
BY-AP-MW-7	5/18/2021 14:03	Turbidity	1.41	NTU
BY-AP-MW-7	5/18/2021 14:08	Conductivity	323.97	uS/cm
BY-AP-MW-7	5/18/2021 14:08	DO	0.16	mg/L
BY-AP-MW-7	5/18/2021 14:08	Depth to Water Detail	18.95	ft
BY-AP-MW-7	5/18/2021 14:08	Oxidation Reduction Potention	16.5	mv
BY-AP-MW-7	5/18/2021 14:08	pH	6.38	SU
BY-AP-MW-7	5/18/2021 14:08	Temperature	21.79	C
BY-AP-MW-7	5/18/2021 14:08	Turbidity	1.17	NTU
BY-AP-MW-7	5/18/2021 14:13	Conductivity	322.9	uS/cm
BY-AP-MW-7	5/18/2021 14:13	DO	0.15	mg/L
BY-AP-MW-7	5/18/2021 14:13	Depth to Water Detail	18.95	ft
BY-AP-MW-7	5/18/2021 14:13	Oxidation Reduction Potention	8.03	mv
BY-AP-MW-7	5/18/2021 14:13	pH	6.4	SU
BY-AP-MW-7	5/18/2021 14:13	Temperature	21.78	C
BY-AP-MW-7	5/18/2021 14:13	Turbidity	1.91	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-7V	5/18/2021 12:54	Conductivity	307.21	uS/cm
BY-AP-MW-7V	5/18/2021 12:54	DO	0.32	mg/L
BY-AP-MW-7V	5/18/2021 12:54	Depth to Water Detail	19.77	ft
BY-AP-MW-7V	5/18/2021 12:54	Oxidation Reduction Potention	60	mv
BY-AP-MW-7V	5/18/2021 12:54	pH	6.38	SU
BY-AP-MW-7V	5/18/2021 12:54	Temperature	22.39	C
BY-AP-MW-7V	5/18/2021 12:54	Turbidity	3.08	NTU
BY-AP-MW-7V	5/18/2021 12:59	Conductivity	318.05	uS/cm
BY-AP-MW-7V	5/18/2021 12:59	DO	0.24	mg/L
BY-AP-MW-7V	5/18/2021 12:59	Depth to Water Detail	19.77	ft
BY-AP-MW-7V	5/18/2021 12:59	Oxidation Reduction Potention	40.32	mv
BY-AP-MW-7V	5/18/2021 12:59	pH	6.39	SU
BY-AP-MW-7V	5/18/2021 12:59	Temperature	22.36	C
BY-AP-MW-7V	5/18/2021 12:59	Turbidity	1.25	NTU
BY-AP-MW-7V	5/18/2021 13:04	Conductivity	326.83	uS/cm
BY-AP-MW-7V	5/18/2021 13:04	DO	0.22	mg/L
BY-AP-MW-7V	5/18/2021 13:04	Depth to Water Detail	19.77	ft
BY-AP-MW-7V	5/18/2021 13:04	Oxidation Reduction Potention	21.49	mv
BY-AP-MW-7V	5/18/2021 13:04	pH	6.46	SU
BY-AP-MW-7V	5/18/2021 13:04	Temperature	22.21	C
BY-AP-MW-7V	5/18/2021 13:04	Turbidity	0.76	NTU
BY-AP-MW-7V	5/18/2021 13:09	Conductivity	334.04	uS/cm
BY-AP-MW-7V	5/18/2021 13:09	DO	0.21	mg/L
BY-AP-MW-7V	5/18/2021 13:09	Depth to Water Detail	19.77	ft
BY-AP-MW-7V	5/18/2021 13:09	Oxidation Reduction Potention	5.66	mv
BY-AP-MW-7V	5/18/2021 13:09	pH	6.53	SU
BY-AP-MW-7V	5/18/2021 13:09	Temperature	22.19	C
BY-AP-MW-7V	5/18/2021 13:09	Turbidity	0.51	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-8V	5/18/2021 11:17	Conductivity	554.26	uS/cm
BY-AP-MW-8V	5/18/2021 11:17	DO	0.06	mg/L
BY-AP-MW-8V	5/18/2021 11:17	Depth to Water Detail	19.94	ft
BY-AP-MW-8V	5/18/2021 11:17	Oxidation Reduction Potention	53.9	mv
BY-AP-MW-8V	5/18/2021 11:17	pH	6.27	SU
BY-AP-MW-8V	5/18/2021 11:17	Temperature	20.96	C
BY-AP-MW-8V	5/18/2021 11:17	Turbidity	2.7	NTU
BY-AP-MW-8V	5/18/2021 11:22	Conductivity	552.73	uS/cm
BY-AP-MW-8V	5/18/2021 11:22	DO	0.04	mg/L
BY-AP-MW-8V	5/18/2021 11:22	Depth to Water Detail	19.94	ft
BY-AP-MW-8V	5/18/2021 11:22	Oxidation Reduction Potention	37.07	mv
BY-AP-MW-8V	5/18/2021 11:22	pH	6.32	SU
BY-AP-MW-8V	5/18/2021 11:22	Temperature	21.05	C
BY-AP-MW-8V	5/18/2021 11:22	Turbidity	2.43	NTU
BY-AP-MW-8V	5/18/2021 11:27	Conductivity	553.98	uS/cm
BY-AP-MW-8V	5/18/2021 11:27	DO	0.05	mg/L
BY-AP-MW-8V	5/18/2021 11:27	Depth to Water Detail	19.94	ft
BY-AP-MW-8V	5/18/2021 11:27	Oxidation Reduction Potention	26.07	mv
BY-AP-MW-8V	5/18/2021 11:27	pH	6.33	SU
BY-AP-MW-8V	5/18/2021 11:27	Temperature	20.86	C
BY-AP-MW-8V	5/18/2021 11:27	Turbidity	1.49	NTU
BY-AP-MW-8V	5/18/2021 11:32	Conductivity	555.01	uS/cm
BY-AP-MW-8V	5/18/2021 11:32	DO	0.04	mg/L
BY-AP-MW-8V	5/18/2021 11:32	Depth to Water Detail	19.94	ft
BY-AP-MW-8V	5/18/2021 11:32	Oxidation Reduction Potention	18.19	mv
BY-AP-MW-8V	5/18/2021 11:32	pH	6.33	SU
BY-AP-MW-8V	5/18/2021 11:32	Temperature	20.72	C
BY-AP-MW-8V	5/18/2021 11:32	Turbidity	2.12	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-10	5/11/2021 8:00	Conductivity	682.56	uS/cm
BY-AP-MW-10	5/11/2021 8:00	DO	0.31	mg/L
BY-AP-MW-10	5/11/2021 8:00	Depth to Water Detail	19.51	ft
BY-AP-MW-10	5/11/2021 8:00	Oxidation Reduction Potention	64.23	mv
BY-AP-MW-10	5/11/2021 8:00	pH	6.37	SU
BY-AP-MW-10	5/11/2021 8:00	Temperature	21.24	C
BY-AP-MW-10	5/11/2021 8:00	Turbidity	4.36	NTU
BY-AP-MW-10	5/11/2021 8:05	Conductivity	678.12	uS/cm
BY-AP-MW-10	5/11/2021 8:05	DO	0.25	mg/L
BY-AP-MW-10	5/11/2021 8:05	Depth to Water Detail	19.51	ft
BY-AP-MW-10	5/11/2021 8:05	Oxidation Reduction Potention	46.87	mv
BY-AP-MW-10	5/11/2021 8:05	pH	6.37	SU
BY-AP-MW-10	5/11/2021 8:05	Temperature	21.25	C
BY-AP-MW-10	5/11/2021 8:05	Turbidity	2.84	NTU
BY-AP-MW-10	5/11/2021 8:10	Conductivity	673.24	uS/cm
BY-AP-MW-10	5/11/2021 8:10	DO	0.23	mg/L
BY-AP-MW-10	5/11/2021 8:10	Depth to Water Detail	19.51	ft
BY-AP-MW-10	5/11/2021 8:10	Oxidation Reduction Potention	35.28	mv
BY-AP-MW-10	5/11/2021 8:10	pH	6.39	SU
BY-AP-MW-10	5/11/2021 8:10	Temperature	21.21	C
BY-AP-MW-10	5/11/2021 8:10	Turbidity	1.63	NTU
BY-AP-MW-10	5/11/2021 8:15	Conductivity	669.59	uS/cm
BY-AP-MW-10	5/11/2021 8:15	DO	0.21	mg/L
BY-AP-MW-10	5/11/2021 8:15	Depth to Water Detail	19.51	ft
BY-AP-MW-10	5/11/2021 8:15	Oxidation Reduction Potention	26.89	mv
BY-AP-MW-10	5/11/2021 8:15	pH	6.4	SU
BY-AP-MW-10	5/11/2021 8:15	Temperature	21.23	C
BY-AP-MW-10	5/11/2021 8:15	Turbidity	1.5	NTU

**Alabama Power Company
Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-14	5/25/2021 10:41	Conductivity	494.79	uS/cm
BY-AP-MW-14	5/25/2021 10:41	DO	0.12	mg/L
BY-AP-MW-14	5/25/2021 10:41	Depth to Water Detail	10.15	ft
BY-AP-MW-14	5/25/2021 10:41	Oxidation Reduction Potention	-34.72	mv
BY-AP-MW-14	5/25/2021 10:41	pH	5.73	SU
BY-AP-MW-14	5/25/2021 10:41	Temperature	19.99	C
BY-AP-MW-14	5/25/2021 10:41	Turbidity	2.66	NTU
BY-AP-MW-14	5/25/2021 10:46	Conductivity	490.5	uS/cm
BY-AP-MW-14	5/25/2021 10:46	DO	0.11	mg/L
BY-AP-MW-14	5/25/2021 10:46	Depth to Water Detail	10.15	ft
BY-AP-MW-14	5/25/2021 10:46	Oxidation Reduction Potention	-42.16	mv
BY-AP-MW-14	5/25/2021 10:46	pH	5.81	SU
BY-AP-MW-14	5/25/2021 10:46	Temperature	20.12	C
BY-AP-MW-14	5/25/2021 10:46	Turbidity	2.55	NTU
BY-AP-MW-14	5/25/2021 10:51	Conductivity	486.84	uS/cm
BY-AP-MW-14	5/25/2021 10:51	DO	0.11	mg/L
BY-AP-MW-14	5/25/2021 10:51	Depth to Water Detail	10.15	ft
BY-AP-MW-14	5/25/2021 10:51	Oxidation Reduction Potention	-46.57	mv
BY-AP-MW-14	5/25/2021 10:51	pH	5.85	SU
BY-AP-MW-14	5/25/2021 10:51	Temperature	20.15	C
BY-AP-MW-14	5/25/2021 10:51	Turbidity	2.72	NTU
BY-AP-MW-14	5/25/2021 10:56	Conductivity	486.8	uS/cm
BY-AP-MW-14	5/25/2021 10:56	DO	0.11	mg/L
BY-AP-MW-14	5/25/2021 10:56	Depth to Water Detail	10.15	ft
BY-AP-MW-14	5/25/2021 10:56	Oxidation Reduction Potention	-48.09	mv
BY-AP-MW-14	5/25/2021 10:56	pH	5.82	SU
BY-AP-MW-14	5/25/2021 10:56	Temperature	20.14	C
BY-AP-MW-14	5/25/2021 10:56	Turbidity	2.79	NTU

**Alabama Power Company
Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-14V	5/25/2021 9:38	Conductivity	1002.84	uS/cm
BY-AP-MW-14V	5/25/2021 9:38	DO	0.16	mg/L
BY-AP-MW-14V	5/25/2021 9:38	Depth to Water Detail	22.71	ft
BY-AP-MW-14V	5/25/2021 9:38	Oxidation Reduction Potention	-172.47	mv
BY-AP-MW-14V	5/25/2021 9:38	pH	7.4	SU
BY-AP-MW-14V	5/25/2021 9:38	Temperature	21.26	C
BY-AP-MW-14V	5/25/2021 9:38	Turbidity	2.52	NTU
BY-AP-MW-14V	5/25/2021 9:43	Conductivity	957.21	uS/cm
BY-AP-MW-14V	5/25/2021 9:43	DO	0.16	mg/L
BY-AP-MW-14V	5/25/2021 9:43	Depth to Water Detail	22.71	ft
BY-AP-MW-14V	5/25/2021 9:43	Oxidation Reduction Potention	-159.27	mv
BY-AP-MW-14V	5/25/2021 9:43	pH	7.22	SU
BY-AP-MW-14V	5/25/2021 9:43	Temperature	21.08	C
BY-AP-MW-14V	5/25/2021 9:43	Turbidity	2.67	NTU
BY-AP-MW-14V	5/25/2021 9:48	Conductivity	943.33	uS/cm
BY-AP-MW-14V	5/25/2021 9:48	DO	0.15	mg/L
BY-AP-MW-14V	5/25/2021 9:48	Depth to Water Detail	22.71	ft
BY-AP-MW-14V	5/25/2021 9:48	Oxidation Reduction Potention	-155.52	mv
BY-AP-MW-14V	5/25/2021 9:48	pH	7.19	SU
BY-AP-MW-14V	5/25/2021 9:48	Temperature	21.12	C
BY-AP-MW-14V	5/25/2021 9:48	Turbidity	2.71	NTU
BY-AP-MW-14V	5/25/2021 9:53	Conductivity	943.96	uS/cm
BY-AP-MW-14V	5/25/2021 9:53	DO	0.15	mg/L
BY-AP-MW-14V	5/25/2021 9:53	Depth to Water Detail	22.71	ft
BY-AP-MW-14V	5/25/2021 9:53	Oxidation Reduction Potention	-154.89	mv
BY-AP-MW-14V	5/25/2021 9:53	pH	7.2	SU
BY-AP-MW-14V	5/25/2021 9:53	Temperature	21.13	C
BY-AP-MW-14V	5/25/2021 9:53	Turbidity	2.56	NTU

**Alabama Power Company
Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-19H	5/25/2021 8:08	Conductivity	171.73	uS/cm
BY-AP-MW-19H	5/25/2021 8:08	DO	0.42	mg/L
BY-AP-MW-19H	5/25/2021 8:08	Depth to Water Detail	7.46	ft
BY-AP-MW-19H	5/25/2021 8:08	Oxidation Reduction Potention	-53.34	mv
BY-AP-MW-19H	5/25/2021 8:08	pH	5.91	SU
BY-AP-MW-19H	5/25/2021 8:08	Temperature	19.99	C
BY-AP-MW-19H	5/25/2021 8:08	Turbidity	4.6	NTU
BY-AP-MW-19H	5/25/2021 8:13	Conductivity	176.36	uS/cm
BY-AP-MW-19H	5/25/2021 8:13	DO	0.36	mg/L
BY-AP-MW-19H	5/25/2021 8:13	Depth to Water Detail	7.46	ft
BY-AP-MW-19H	5/25/2021 8:13	Oxidation Reduction Potention	-62.01	mv
BY-AP-MW-19H	5/25/2021 8:13	pH	5.97	SU
BY-AP-MW-19H	5/25/2021 8:13	Temperature	20.02	C
BY-AP-MW-19H	5/25/2021 8:13	Turbidity	3.25	NTU
BY-AP-MW-19H	5/25/2021 8:18	Conductivity	183.14	uS/cm
BY-AP-MW-19H	5/25/2021 8:18	DO	0.31	mg/L
BY-AP-MW-19H	5/25/2021 8:18	Depth to Water Detail	7.46	ft
BY-AP-MW-19H	5/25/2021 8:18	Oxidation Reduction Potention	-69.09	mv
BY-AP-MW-19H	5/25/2021 8:18	pH	6	SU
BY-AP-MW-19H	5/25/2021 8:18	Temperature	20.03	C
BY-AP-MW-19H	5/25/2021 8:18	Turbidity	2.91	NTU
BY-AP-MW-19H	5/25/2021 8:23	Conductivity	190.08	uS/cm
BY-AP-MW-19H	5/25/2021 8:23	DO	0.26	mg/L
BY-AP-MW-19H	5/25/2021 8:23	Depth to Water Detail	7.46	ft
BY-AP-MW-19H	5/25/2021 8:23	Oxidation Reduction Potention	-75.55	mv
BY-AP-MW-19H	5/25/2021 8:23	pH	6.02	SU
BY-AP-MW-19H	5/25/2021 8:23	Temperature	20.05	C
BY-AP-MW-19H	5/25/2021 8:23	Turbidity	3.11	NTU
BY-AP-MW-19H	5/25/2021 8:28	Conductivity	207.17	uS/cm
BY-AP-MW-19H	5/25/2021 8:28	DO	0.23	mg/L
BY-AP-MW-19H	5/25/2021 8:28	Depth to Water Detail	7.46	ft
BY-AP-MW-19H	5/25/2021 8:28	Oxidation Reduction Potention	-85.14	mv
BY-AP-MW-19H	5/25/2021 8:28	pH	6.06	SU
BY-AP-MW-19H	5/25/2021 8:28	Temperature	20.05	C
BY-AP-MW-19H	5/25/2021 8:28	Turbidity	3.2	NTU
BY-AP-MW-19H	5/25/2021 8:33	Conductivity	202.61	uS/cm
BY-AP-MW-19H	5/25/2021 8:33	DO	0.23	mg/L
BY-AP-MW-19H	5/25/2021 8:33	Depth to Water Detail	7.46	ft
BY-AP-MW-19H	5/25/2021 8:33	Oxidation Reduction Potention	-89.4	mv
BY-AP-MW-19H	5/25/2021 8:33	pH	6.06	SU
BY-AP-MW-19H	5/25/2021 8:33	Temperature	20.06	C
BY-AP-MW-19H	5/25/2021 8:33	Turbidity	2.84	NTU
BY-AP-MW-19H	5/25/2021 8:38	Conductivity	220.25	uS/cm
BY-AP-MW-19H	5/25/2021 8:38	DO	0.23	mg/L

**Alabama Power Company
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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-19H	5/25/2021 8:38	Depth to Water Detail	7.46	ft
BY-AP-MW-19H	5/25/2021 8:38	Oxidation Reduction Potention	-95.62	mv
BY-AP-MW-19H	5/25/2021 8:38	pH	6.09	SU
BY-AP-MW-19H	5/25/2021 8:38	Temperature	20.08	C
BY-AP-MW-19H	5/25/2021 8:38	Turbidity	2.8	NTU
BY-AP-MW-19H	5/25/2021 8:43	Conductivity	221.96	uS/cm
BY-AP-MW-19H	5/25/2021 8:43	DO	0.23	mg/L
BY-AP-MW-19H	5/25/2021 8:43	Depth to Water Detail	7.46	ft
BY-AP-MW-19H	5/25/2021 8:43	Oxidation Reduction Potention	-99.99	mv
BY-AP-MW-19H	5/25/2021 8:43	pH	6.1	SU
BY-AP-MW-19H	5/25/2021 8:43	Temperature	20.09	C
BY-AP-MW-19H	5/25/2021 8:43	Turbidity	3.04	NTU
BY-AP-MW-19H	5/25/2021 8:48	Conductivity	227.79	uS/cm
BY-AP-MW-19H	5/25/2021 8:48	DO	0.21	mg/L
BY-AP-MW-19H	5/25/2021 8:48	Depth to Water Detail	7.46	ft
BY-AP-MW-19H	5/25/2021 8:48	Oxidation Reduction Potention	-103.45	mv
BY-AP-MW-19H	5/25/2021 8:48	pH	6.1	SU
BY-AP-MW-19H	5/25/2021 8:48	Temperature	20.11	C
BY-AP-MW-19H	5/25/2021 8:48	Turbidity	3.12	NTU

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Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-23H	5/24/2021 12:32	Conductivity	375.94	uS/cm
BY-AP-MW-23H	5/24/2021 12:32	DO	0.31	mg/L
BY-AP-MW-23H	5/24/2021 12:32	Depth to Water Detail	8.4	ft
BY-AP-MW-23H	5/24/2021 12:32	Oxidation Reduction Potention	-98.07	mv
BY-AP-MW-23H	5/24/2021 12:32	pH	6.12	SU
BY-AP-MW-23H	5/24/2021 12:32	Temperature	20.12	C
BY-AP-MW-23H	5/24/2021 12:32	Turbidity	11.5	NTU
BY-AP-MW-23H	5/24/2021 12:37	Conductivity	353.97	uS/cm
BY-AP-MW-23H	5/24/2021 12:37	DO	0.22	mg/L
BY-AP-MW-23H	5/24/2021 12:37	Depth to Water Detail	8.4	ft
BY-AP-MW-23H	5/24/2021 12:37	Oxidation Reduction Potention	-97.6	mv
BY-AP-MW-23H	5/24/2021 12:37	pH	6.15	SU
BY-AP-MW-23H	5/24/2021 12:37	Temperature	20.15	C
BY-AP-MW-23H	5/24/2021 12:37	Turbidity	5.53	NTU
BY-AP-MW-23H	5/24/2021 12:42	Conductivity	346.1	uS/cm
BY-AP-MW-23H	5/24/2021 12:42	DO	0.2	mg/L
BY-AP-MW-23H	5/24/2021 12:42	Depth to Water Detail	8.4	ft
BY-AP-MW-23H	5/24/2021 12:42	Oxidation Reduction Potention	-97.49	mv
BY-AP-MW-23H	5/24/2021 12:42	pH	6.18	SU
BY-AP-MW-23H	5/24/2021 12:42	Temperature	20.14	C
BY-AP-MW-23H	5/24/2021 12:42	Turbidity	4.77	NTU
BY-AP-MW-23H	5/24/2021 12:47	Conductivity	340.93	uS/cm
BY-AP-MW-23H	5/24/2021 12:47	DO	0.17	mg/L
BY-AP-MW-23H	5/24/2021 12:47	Depth to Water Detail	8.4	ft
BY-AP-MW-23H	5/24/2021 12:47	Oxidation Reduction Potention	-96.62	mv
BY-AP-MW-23H	5/24/2021 12:47	pH	6.19	SU
BY-AP-MW-23H	5/24/2021 12:47	Temperature	20.22	C
BY-AP-MW-23H	5/24/2021 12:47	Turbidity	4.01	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-25V	5/24/2021 13:19	Conductivity	30.35	uS/cm
BY-AP-MW-25V	5/24/2021 13:19	DO	3.59	mg/L
BY-AP-MW-25V	5/24/2021 13:19	Depth to Water Detail	20.26	ft
BY-AP-MW-25V	5/24/2021 13:19	Oxidation Reduction Potention	158.1	mv
BY-AP-MW-25V	5/24/2021 13:19	pH	4.78	SU
BY-AP-MW-25V	5/24/2021 13:19	Temperature	22.35	C
BY-AP-MW-25V	5/24/2021 13:19	Turbidity	6.43	NTU
BY-AP-MW-25V	5/24/2021 13:24	Conductivity	30.38	uS/cm
BY-AP-MW-25V	5/24/2021 13:24	DO	3.62	mg/L
BY-AP-MW-25V	5/24/2021 13:24	Depth to Water Detail	20.26	ft
BY-AP-MW-25V	5/24/2021 13:24	Oxidation Reduction Potention	140.33	mv
BY-AP-MW-25V	5/24/2021 13:24	pH	5.12	SU
BY-AP-MW-25V	5/24/2021 13:24	Temperature	22.37	C
BY-AP-MW-25V	5/24/2021 13:24	Turbidity	3.43	NTU
BY-AP-MW-25V	5/24/2021 13:29	Conductivity	30.46	uS/cm
BY-AP-MW-25V	5/24/2021 13:29	DO	3.65	mg/L
BY-AP-MW-25V	5/24/2021 13:29	Depth to Water Detail	20.26	ft
BY-AP-MW-25V	5/24/2021 13:29	Oxidation Reduction Potention	134.76	mv
BY-AP-MW-25V	5/24/2021 13:29	pH	5.2	SU
BY-AP-MW-25V	5/24/2021 13:29	Temperature	22.36	C
BY-AP-MW-25V	5/24/2021 13:29	Turbidity	2.57	NTU
BY-AP-MW-25V	5/24/2021 13:34	Conductivity	30.82	uS/cm
BY-AP-MW-25V	5/24/2021 13:34	DO	3.63	mg/L
BY-AP-MW-25V	5/24/2021 13:34	Depth to Water Detail	20.26	ft
BY-AP-MW-25V	5/24/2021 13:34	Oxidation Reduction Potention	131.7	mv
BY-AP-MW-25V	5/24/2021 13:34	pH	5.24	SU
BY-AP-MW-25V	5/24/2021 13:34	Temperature	22.44	C
BY-AP-MW-25V	5/24/2021 13:34	Turbidity	2.03	NTU

**Alabama Power Company
Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-25H	5/24/2021 14:12	Conductivity	39.77	uS/cm
BY-AP-MW-25H	5/24/2021 14:12	DO	0.77	mg/L
BY-AP-MW-25H	5/24/2021 14:12	Depth to Water Detail	20.21	ft
BY-AP-MW-25H	5/24/2021 14:12	Oxidation Reduction Potention	193.3	mv
BY-AP-MW-25H	5/24/2021 14:12	pH	3.93	SU
BY-AP-MW-25H	5/24/2021 14:12	Temperature	22.66	C
BY-AP-MW-25H	5/24/2021 14:12	Turbidity	1.23	NTU
BY-AP-MW-25H	5/24/2021 14:17	Conductivity	39.67	uS/cm
BY-AP-MW-25H	5/24/2021 14:17	DO	0.77	mg/L
BY-AP-MW-25H	5/24/2021 14:17	Depth to Water Detail	20.21	ft
BY-AP-MW-25H	5/24/2021 14:17	Oxidation Reduction Potention	189.65	mv
BY-AP-MW-25H	5/24/2021 14:17	pH	4	SU
BY-AP-MW-25H	5/24/2021 14:17	Temperature	22.68	C
BY-AP-MW-25H	5/24/2021 14:17	Turbidity	0.8	NTU
BY-AP-MW-25H	5/24/2021 14:22	Conductivity	39.61	uS/cm
BY-AP-MW-25H	5/24/2021 14:22	DO	0.76	mg/L
BY-AP-MW-25H	5/24/2021 14:22	Depth to Water Detail	20.21	ft
BY-AP-MW-25H	5/24/2021 14:22	Oxidation Reduction Potention	178.97	mv
BY-AP-MW-25H	5/24/2021 14:22	pH	4.14	SU
BY-AP-MW-25H	5/24/2021 14:22	Temperature	22.65	C
BY-AP-MW-25H	5/24/2021 14:22	Turbidity	0.61	NTU
BY-AP-MW-25H	5/24/2021 14:27	Conductivity	39.54	uS/cm
BY-AP-MW-25H	5/24/2021 14:27	DO	0.75	mg/L
BY-AP-MW-25H	5/24/2021 14:27	Depth to Water Detail	20.21	ft
BY-AP-MW-25H	5/24/2021 14:27	Oxidation Reduction Potention	178.68	mv
BY-AP-MW-25H	5/24/2021 14:27	pH	4.12	SU
BY-AP-MW-25H	5/24/2021 14:27	Temperature	22.58	C
BY-AP-MW-25H	5/24/2021 14:27	Turbidity	0.74	NTU

**Alabama Power Company
Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-15V	5/25/2021 8:36	Conductivity	606.6	uS/cm
BY-AP-MW-15V	5/25/2021 8:36	DO	0.18	mg/L
BY-AP-MW-15V	5/25/2021 8:36	Depth to Water Detail	4.65	ft
BY-AP-MW-15V	5/25/2021 8:36	Oxidation Reduction Potention	95.35	mv
BY-AP-MW-15V	5/25/2021 8:36	pH	5.45	SU
BY-AP-MW-15V	5/25/2021 8:36	Temperature	20.78	C
BY-AP-MW-15V	5/25/2021 8:36	Turbidity	1.22	NTU
BY-AP-MW-15V	5/25/2021 8:41	Conductivity	610.58	uS/cm
BY-AP-MW-15V	5/25/2021 8:41	DO	0.13	mg/L
BY-AP-MW-15V	5/25/2021 8:41	Depth to Water Detail	4.65	ft
BY-AP-MW-15V	5/25/2021 8:41	Oxidation Reduction Potention	83.34	mv
BY-AP-MW-15V	5/25/2021 8:41	pH	5.54	SU
BY-AP-MW-15V	5/25/2021 8:41	Temperature	20.8	C
BY-AP-MW-15V	5/25/2021 8:41	Turbidity	1.12	NTU
BY-AP-MW-15V	5/25/2021 8:46	Conductivity	614.85	uS/cm
BY-AP-MW-15V	5/25/2021 8:46	DO	0.12	mg/L
BY-AP-MW-15V	5/25/2021 8:46	Depth to Water Detail	4.65	ft
BY-AP-MW-15V	5/25/2021 8:46	Oxidation Reduction Potention	73.55	mv
BY-AP-MW-15V	5/25/2021 8:46	pH	5.58	SU
BY-AP-MW-15V	5/25/2021 8:46	Temperature	20.81	C
BY-AP-MW-15V	5/25/2021 8:46	Turbidity	0.76	NTU
BY-AP-MW-15V	5/25/2021 8:51	Conductivity	622.83	uS/cm
BY-AP-MW-15V	5/25/2021 8:51	DO	0.11	mg/L
BY-AP-MW-15V	5/25/2021 8:51	Depth to Water Detail	4.65	ft
BY-AP-MW-15V	5/25/2021 8:51	Oxidation Reduction Potention	67.29	mv
BY-AP-MW-15V	5/25/2021 8:51	pH	5.6	SU
BY-AP-MW-15V	5/25/2021 8:51	Temperature	20.82	C
BY-AP-MW-15V	5/25/2021 8:51	Turbidity	0.65	NTU

**Alabama Power Company
Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-22H	5/25/2021 9:25	Conductivity	637.09	uS/cm
BY-AP-MW-22H	5/25/2021 9:25	DO	0.18	mg/L
BY-AP-MW-22H	5/25/2021 9:25	Depth to Water Detail	5.99	ft
BY-AP-MW-22H	5/25/2021 9:25	Oxidation Reduction Potention	15.24	mv
BY-AP-MW-22H	5/25/2021 9:25	pH	6.27	SU
BY-AP-MW-22H	5/25/2021 9:25	Temperature	20.13	C
BY-AP-MW-22H	5/25/2021 9:25	Turbidity	2.44	NTU
BY-AP-MW-22H	5/25/2021 9:30	Conductivity	637.86	uS/cm
BY-AP-MW-22H	5/25/2021 9:30	DO	0.13	mg/L
BY-AP-MW-22H	5/25/2021 9:30	Depth to Water Detail	5.99	ft
BY-AP-MW-22H	5/25/2021 9:30	Oxidation Reduction Potention	-0.12	mv
BY-AP-MW-22H	5/25/2021 9:30	pH	6.33	SU
BY-AP-MW-22H	5/25/2021 9:30	Temperature	20.13	C
BY-AP-MW-22H	5/25/2021 9:30	Turbidity	2.63	NTU
BY-AP-MW-22H	5/25/2021 9:35	Conductivity	646.1	uS/cm
BY-AP-MW-22H	5/25/2021 9:35	DO	0.11	mg/L
BY-AP-MW-22H	5/25/2021 9:35	Depth to Water Detail	5.99	ft
BY-AP-MW-22H	5/25/2021 9:35	Oxidation Reduction Potention	-14.42	mv
BY-AP-MW-22H	5/25/2021 9:35	pH	6.4	SU
BY-AP-MW-22H	5/25/2021 9:35	Temperature	20.12	C
BY-AP-MW-22H	5/25/2021 9:35	Turbidity	1.99	NTU
BY-AP-MW-22H	5/25/2021 9:40	Conductivity	648.04	uS/cm
BY-AP-MW-22H	5/25/2021 9:40	DO	0.1	mg/L
BY-AP-MW-22H	5/25/2021 9:40	Depth to Water Detail	5.99	ft
BY-AP-MW-22H	5/25/2021 9:40	Oxidation Reduction Potention	-24.93	mv
BY-AP-MW-22H	5/25/2021 9:40	pH	6.44	SU
BY-AP-MW-22H	5/25/2021 9:40	Temperature	20.13	C
BY-AP-MW-22H	5/25/2021 9:40	Turbidity	1.54	NTU

**Alabama Power Company
Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-24H	5/25/2021 10:35	Conductivity	757.39	uS/cm
BY-AP-MW-24H	5/25/2021 10:35	DO	0.09	mg/L
BY-AP-MW-24H	5/25/2021 10:35	Depth to Water Detail	23.86	ft
BY-AP-MW-24H	5/25/2021 10:35	Oxidation Reduction Potention	12.06	mv
BY-AP-MW-24H	5/25/2021 10:35	pH	5.97	SU
BY-AP-MW-24H	5/25/2021 10:35	Temperature	21.62	C
BY-AP-MW-24H	5/25/2021 10:35	Turbidity	4.98	NTU
BY-AP-MW-24H	5/25/2021 10:40	Conductivity	760.99	uS/cm
BY-AP-MW-24H	5/25/2021 10:40	DO	0.07	mg/L
BY-AP-MW-24H	5/25/2021 10:40	Depth to Water Detail	23.86	ft
BY-AP-MW-24H	5/25/2021 10:40	Oxidation Reduction Potention	-5.82	mv
BY-AP-MW-24H	5/25/2021 10:40	pH	6.11	SU
BY-AP-MW-24H	5/25/2021 10:40	Temperature	21.66	C
BY-AP-MW-24H	5/25/2021 10:40	Turbidity	1.36	NTU
BY-AP-MW-24H	5/25/2021 10:45	Conductivity	759.74	uS/cm
BY-AP-MW-24H	5/25/2021 10:45	DO	0.07	mg/L
BY-AP-MW-24H	5/25/2021 10:45	Depth to Water Detail	23.86	ft
BY-AP-MW-24H	5/25/2021 10:45	Oxidation Reduction Potention	-16.62	mv
BY-AP-MW-24H	5/25/2021 10:45	pH	6.16	SU
BY-AP-MW-24H	5/25/2021 10:45	Temperature	21.75	C
BY-AP-MW-24H	5/25/2021 10:45	Turbidity	1.02	NTU
BY-AP-MW-24H	5/25/2021 10:50	Conductivity	761.3	uS/cm
BY-AP-MW-24H	5/25/2021 10:50	DO	0.07	mg/L
BY-AP-MW-24H	5/25/2021 10:50	Depth to Water Detail	23.86	ft
BY-AP-MW-24H	5/25/2021 10:50	Oxidation Reduction Potention	-23.11	mv
BY-AP-MW-24H	5/25/2021 10:50	pH	6.16	SU
BY-AP-MW-24H	5/25/2021 10:50	Temperature	21.72	C
BY-AP-MW-24H	5/25/2021 10:50	Turbidity	0.94	NTU

**Alabama Power Company
Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-GSA-MW-1	5/12/2021 8:43	Conductivity	66.22	uS/cm
BY-GSA-MW-1	5/12/2021 8:43	DO	0.21	mg/L
BY-GSA-MW-1	5/12/2021 8:43	Depth to Water Detail	13.16	ft
BY-GSA-MW-1	5/12/2021 8:43	Oxidation Reduction Potention	121.18	mv
BY-GSA-MW-1	5/12/2021 8:43	pH	4.76	SU
BY-GSA-MW-1	5/12/2021 8:43	Temperature	20.1	C
BY-GSA-MW-1	5/12/2021 8:43	Turbidity	3.72	NTU
BY-GSA-MW-1	5/12/2021 8:48	Conductivity	65.93	uS/cm
BY-GSA-MW-1	5/12/2021 8:48	DO	0.18	mg/L
BY-GSA-MW-1	5/12/2021 8:48	Depth to Water Detail	13.18	ft
BY-GSA-MW-1	5/12/2021 8:48	Oxidation Reduction Potention	134.15	mv
BY-GSA-MW-1	5/12/2021 8:48	pH	4.56	SU
BY-GSA-MW-1	5/12/2021 8:48	Temperature	20.11	C
BY-GSA-MW-1	5/12/2021 8:48	Turbidity	2.11	NTU
BY-GSA-MW-1	5/12/2021 8:53	Conductivity	65.75	uS/cm
BY-GSA-MW-1	5/12/2021 8:53	DO	0.17	mg/L
BY-GSA-MW-1	5/12/2021 8:53	Depth to Water Detail	13.22	ft
BY-GSA-MW-1	5/12/2021 8:53	Oxidation Reduction Potention	132.14	mv
BY-GSA-MW-1	5/12/2021 8:53	pH	4.68	SU
BY-GSA-MW-1	5/12/2021 8:53	Temperature	20.18	C
BY-GSA-MW-1	5/12/2021 8:53	Turbidity	2.04	NTU
BY-GSA-MW-1	5/12/2021 8:58	Conductivity	65.58	uS/cm
BY-GSA-MW-1	5/12/2021 8:58	DO	0.16	mg/L
BY-GSA-MW-1	5/12/2021 8:58	Depth to Water Detail	13.22	ft
BY-GSA-MW-1	5/12/2021 8:58	Oxidation Reduction Potention	130.44	mv
BY-GSA-MW-1	5/12/2021 8:58	pH	4.74	SU
BY-GSA-MW-1	5/12/2021 8:58	Temperature	20.13	C
BY-GSA-MW-1	5/12/2021 8:58	Turbidity	2.91	NTU

**Alabama Power Company
Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-GSA-MW-2	5/11/2021 11:10	Conductivity	55.41	uS/cm
BY-GSA-MW-2	5/11/2021 11:10	DO	6.88	mg/L
BY-GSA-MW-2	5/11/2021 11:10	Depth to Water Detail	12.72	ft
BY-GSA-MW-2	5/11/2021 11:10	Oxidation Reduction Potention	258.56	mv
BY-GSA-MW-2	5/11/2021 11:10	pH	4.02	SU
BY-GSA-MW-2	5/11/2021 11:10	Temperature	19.58	C
BY-GSA-MW-2	5/11/2021 11:10	Turbidity	11.3	NTU
BY-GSA-MW-2	5/11/2021 11:15	Conductivity	54.58	uS/cm
BY-GSA-MW-2	5/11/2021 11:15	DO	6.75	mg/L
BY-GSA-MW-2	5/11/2021 11:15	Depth to Water Detail	12.72	ft
BY-GSA-MW-2	5/11/2021 11:15	Oxidation Reduction Potention	268.26	mv
BY-GSA-MW-2	5/11/2021 11:15	pH	4.12	SU
BY-GSA-MW-2	5/11/2021 11:15	Temperature	19.6	C
BY-GSA-MW-2	5/11/2021 11:15	Turbidity	12.48	NTU
BY-GSA-MW-2	5/11/2021 11:20	Conductivity	54.28	uS/cm
BY-GSA-MW-2	5/11/2021 11:20	DO	6.66	mg/L
BY-GSA-MW-2	5/11/2021 11:20	Depth to Water Detail	12.72	ft
BY-GSA-MW-2	5/11/2021 11:20	Oxidation Reduction Potention	275.99	mv
BY-GSA-MW-2	5/11/2021 11:20	pH	4.18	SU
BY-GSA-MW-2	5/11/2021 11:20	Temperature	19.62	C
BY-GSA-MW-2	5/11/2021 11:20	Turbidity	9.89	NTU
BY-GSA-MW-2	5/11/2021 11:25	Conductivity	54.05	uS/cm
BY-GSA-MW-2	5/11/2021 11:25	DO	6.67	mg/L
BY-GSA-MW-2	5/11/2021 11:25	Depth to Water Detail	12.72	ft
BY-GSA-MW-2	5/11/2021 11:25	Oxidation Reduction Potention	278.42	mv
BY-GSA-MW-2	5/11/2021 11:25	pH	4.29	SU
BY-GSA-MW-2	5/11/2021 11:25	Temperature	19.55	C
BY-GSA-MW-2	5/11/2021 11:25	Turbidity	7.37	NTU

**Alabama Power Company
Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-GSA-MW-3	5/11/2021 9:52	Conductivity	52.8	uS/cm
BY-GSA-MW-3	5/11/2021 9:52	DO	6.22	mg/L
BY-GSA-MW-3	5/11/2021 9:52	Depth to Water Detail	15.42	ft
BY-GSA-MW-3	5/11/2021 9:52	Oxidation Reduction Potention	234.48	mv
BY-GSA-MW-3	5/11/2021 9:52	pH	4.34	SU
BY-GSA-MW-3	5/11/2021 9:52	Temperature	19.81	C
BY-GSA-MW-3	5/11/2021 9:52	Turbidity	9.37	NTU
BY-GSA-MW-3	5/11/2021 9:57	Conductivity	52.61	uS/cm
BY-GSA-MW-3	5/11/2021 9:57	DO	6.22	mg/L
BY-GSA-MW-3	5/11/2021 9:57	Depth to Water Detail	15.42	ft
BY-GSA-MW-3	5/11/2021 9:57	Oxidation Reduction Potention	235.52	mv
BY-GSA-MW-3	5/11/2021 9:57	pH	4.51	SU
BY-GSA-MW-3	5/11/2021 9:57	Temperature	19.84	C
BY-GSA-MW-3	5/11/2021 9:57	Turbidity	6.79	NTU
BY-GSA-MW-3	5/11/2021 10:02	Conductivity	52.54	uS/cm
BY-GSA-MW-3	5/11/2021 10:02	DO	6.19	mg/L
BY-GSA-MW-3	5/11/2021 10:02	Depth to Water Detail	15.42	ft
BY-GSA-MW-3	5/11/2021 10:02	Oxidation Reduction Potention	235.27	mv
BY-GSA-MW-3	5/11/2021 10:02	pH	4.62	SU
BY-GSA-MW-3	5/11/2021 10:02	Temperature	19.86	C
BY-GSA-MW-3	5/11/2021 10:02	Turbidity	3.93	NTU
BY-GSA-MW-3	5/11/2021 10:07	Conductivity	52.36	uS/cm
BY-GSA-MW-3	5/11/2021 10:07	DO	6.17	mg/L
BY-GSA-MW-3	5/11/2021 10:07	Depth to Water Detail	15.42	ft
BY-GSA-MW-3	5/11/2021 10:07	Oxidation Reduction Potention	246.66	mv
BY-GSA-MW-3	5/11/2021 10:07	pH	4.53	SU
BY-GSA-MW-3	5/11/2021 10:07	Temperature	19.82	C
BY-GSA-MW-3	5/11/2021 10:07	Turbidity	2.7	NTU

**Alabama Power Company
Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-GSA-MW-4	5/11/2021 8:30	Conductivity	55.05	uS/cm
BY-GSA-MW-4	5/11/2021 8:30	DO	6.73	mg/L
BY-GSA-MW-4	5/11/2021 8:30	Depth to Water Detail	54.21	ft
BY-GSA-MW-4	5/11/2021 8:30	Oxidation Reduction Potention	206.76	mv
BY-GSA-MW-4	5/11/2021 8:30	pH	4.67	SU
BY-GSA-MW-4	5/11/2021 8:30	Temperature	20.99	C
BY-GSA-MW-4	5/11/2021 8:30	Turbidity	12.03	NTU
BY-GSA-MW-4	5/11/2021 8:35	Conductivity	54.67	uS/cm
BY-GSA-MW-4	5/11/2021 8:35	DO	6.69	mg/L
BY-GSA-MW-4	5/11/2021 8:35	Depth to Water Detail	54.21	ft
BY-GSA-MW-4	5/11/2021 8:35	Oxidation Reduction Potention	210.72	mv
BY-GSA-MW-4	5/11/2021 8:35	pH	4.71	SU
BY-GSA-MW-4	5/11/2021 8:35	Temperature	21.01	C
BY-GSA-MW-4	5/11/2021 8:35	Turbidity	11.9	NTU
BY-GSA-MW-4	5/11/2021 8:40	Conductivity	54.62	uS/cm
BY-GSA-MW-4	5/11/2021 8:40	DO	6.65	mg/L
BY-GSA-MW-4	5/11/2021 8:40	Depth to Water Detail	54.21	ft
BY-GSA-MW-4	5/11/2021 8:40	Oxidation Reduction Potention	214.12	mv
BY-GSA-MW-4	5/11/2021 8:40	pH	4.73	SU
BY-GSA-MW-4	5/11/2021 8:40	Temperature	21.02	C
BY-GSA-MW-4	5/11/2021 8:40	Turbidity	10.17	NTU
BY-GSA-MW-4	5/11/2021 8:45	Conductivity	53.75	uS/cm
BY-GSA-MW-4	5/11/2021 8:45	DO	6.62	mg/L
BY-GSA-MW-4	5/11/2021 8:45	Depth to Water Detail	54.21	ft
BY-GSA-MW-4	5/11/2021 8:45	Oxidation Reduction Potention	227.64	mv
BY-GSA-MW-4	5/11/2021 8:45	pH	4.55	SU
BY-GSA-MW-4	5/11/2021 8:45	Temperature	21.01	C
BY-GSA-MW-4	5/11/2021 8:45	Turbidity	11.79	NTU
BY-GSA-MW-4	5/11/2021 8:50	Conductivity	53.35	uS/cm
BY-GSA-MW-4	5/11/2021 8:50	DO	6.57	mg/L
BY-GSA-MW-4	5/11/2021 8:50	Depth to Water Detail	54.21	ft
BY-GSA-MW-4	5/11/2021 8:50	Oxidation Reduction Potention	227.28	mv
BY-GSA-MW-4	5/11/2021 8:50	pH	4.57	SU
BY-GSA-MW-4	5/11/2021 8:50	Temperature	21.02	C
BY-GSA-MW-4	5/11/2021 8:50	Turbidity	10.35	NTU
BY-GSA-MW-4	5/11/2021 8:55	Conductivity	52.69	uS/cm
BY-GSA-MW-4	5/11/2021 8:55	DO	6.53	mg/L
BY-GSA-MW-4	5/11/2021 8:55	Depth to Water Detail	54.21	ft
BY-GSA-MW-4	5/11/2021 8:55	Oxidation Reduction Potention	225.88	mv
BY-GSA-MW-4	5/11/2021 8:55	pH	4.67	SU
BY-GSA-MW-4	5/11/2021 8:55	Temperature	21	C
BY-GSA-MW-4	5/11/2021 8:55	Turbidity	9.61	NTU

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

Analytical Report



Sample Group : WMWBARPU_1343

Project/Site : Barry Pooled Upgradient
Bucks, AL 36512

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

Attention : Dustin Brooks & Greg Dyer

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

November 29, 2021

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory on October 20, 2021. All results reported herein conform to the laboratory's most current Quality Assurance Manual. Results marked with an asterisk conform to the most current applicable TNI/NELAC requirements. Exceptions will be noted in the body of the report.

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

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

Sincerely,

Quality Control: **Laura Midkiff**
Digitally signed by Laura Midkiff
DN: cn=Laura Midkiff, o=Alabama Power
Company, ou=Environmental Affairs,
email=lmidkif@southernco.com, c=US
Date: 2021.11.29 10:11:08 -06'00'

Supervision: **T. Durant Maske**
Digitally signed by T. Durant Maske
DN: cn=T. Durant Maske, o=Alabama
Power Company, ou=Environmental
Affairs, email=tdmaske@southernco.com,
c=US
Date: 2021.11.29 11:42:34 -06'00'



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

Barry Pooled Upgradient

WMWBARPU_1343

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>
BB19346	711031	WMWBARPU_1343
BB19347	711031	WMWBARPU_1343
BB19348	711031	WMWBARPU_1343
BB19349	711031	WMWBARPU_1343
BB19350	711031	WMWBARPU_1343
BB19351	711031	WMWBARPU_1343
BB19352	711031	WMWBARPU_1343

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

General Quality Control Procedures:

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

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BB19351	Iron	10.15

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

Dissolved Metals ICP

Barry Pooled Upgradient

WMWBARPU_1343

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>
BB19346	710943	WMWBARPU_1343
BB19347	710943	WMWBARPU_1343
BB19348	710943	WMWBARPU_1343
BB19350	710943	WMWBARPU_1343
BB19351	710943	WMWBARPU_1343

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

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each batch passed all acceptance criteria for all requested analytes.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed, and all acceptance criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

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

- A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution factor.
 8. The raw data results are shown with dilution factors included.

Total Metals ICPMS

Barry Pooled Upgradient

WMWBARPU_1343

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>
BB19346	711409	WMWBARPU_1343
BB19347	711409	WMWBARPU_1343
BB19348	711409	WMWBARPU_1343
BB19349	711409	WMWBARPU_1343
BB19350	711409	WMWBARPU_1343
BB19351	711409	WMWBARPU_1343
BB19352	711409	WMWBARPU_1343

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.
 - 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.

Dissolved Metals ICPMS

Barry Pooled Upgradient

WMWBARPU_1343

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>
BB19346	711378	WMWBARPU_1343
BB19347	711378	WMWBARPU_1343
BB19348	711378	WMWBARPU_1343
BB19350	711378	WMWBARPU_1343
BB19351	711378	WMWBARPU_1343

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.
 - A matrix spike and matrix spike duplicate were 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

Barry Pooled Upgradient

WMWBARPU_1343

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>
BB19346	711411	WMWBARPU_1343
BB19347	711411	WMWBARPU_1343
BB19348	711411	WMWBARPU_1343
BB19349	711411	WMWBARPU_1343
BB19350	711411	WMWBARPU_1343
BB19351	711411	WMWBARPU_1343
BB19352	711411	WMWBARPU_1343

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 batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each batch. All acceptance criteria for precision were met.
-
7. All samples were analyzed without a dilution factor.
 8. The raw data results are shown with dilution factors included.

TDS

Barry Pooled Upgradient

WMWBARPU_1343

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>
BB19346	710960	WMWBARPU_1343
BB19347	710960	WMWBARPU_1343
BB19348	710960	WMWBARPU_1343
BB19349	710960	WMWBARPU_1343
BB19350	710960	WMWBARPU_1343
BB19351	711145	WMWBARPU_1343
BB19352	710960	WMWBARPU_1343

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

General Quality Control Procedures:

- A Method Blank was analyzed with each batch. All criteria were met.
- All final weights of samples, standards, and blanks agreed within 0.5mg of the previous weight.
- A sample duplicate was analyzed with each batch. RPD/2 was less than 5%, except for the following:
 - Batch #710960 does not have a duplicate result due to the sample selected as the QC point's original beaker (BB19350) broke during analysis. There was not enough sample to rerun an original and duplicate for QC purposes. Because the original and duplicate are prepped exactly the same, the duplicate result has been reported for the sample, and no precision will be listed with this batch.
- A laboratory control sample was analyzed with each batch. All criteria were met.
- Samples were between 2.5mg and 200mg residue.
- All samples with residue <2.5mg had the maximum volume of 150mL filtered. Affected samples are as follows:
 - BB19349
 - BB19352

Anions

Barry Pooled Upgradient

WMWBARPU_1343

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>
BB19346	711054, 711056, & 711501	WMWBARPU_1343
BB19347	711054, 711056, & 711501	WMWBARPU_1343
BB19348	711054, 711056, & 711501	WMWBARPU_1343
BB19349	711054, 711056, & 711501	WMWBARPU_1343
BB19350	711054, 711056, & 711501	WMWBARPU_1343
BB19351	711054, 711056, & 711501	WMWBARPU_1343
BB19352	711054, 711056, & 711501	WMWBARPU_1343

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

General Quality Control Procedures:

- All calibration met criteria for the requested analyte.
- Prior to sample analysis, an initial calibration verification (ICV), and all criteria were met.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

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

- A matrix spike was analyzed with each batch. Acceptance criteria for accuracy were met.
 - A sample duplicate was analyzed with each batch. Acceptance criteria for precision were met, except for the following:
 - BB19352 Sulfate precision was invalid due to sample concentration.
7. All samples were analyzed without dilution.

Alkalinity

Barry Pooled Upgradient

WMWBARPU_1343

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>
BB19346	711597 & 711598	WMWBARPU_1343
BB19347	711597 & 711598	WMWBARPU_1343
BB19348	711597 & 711598	WMWBARPU_1343
BB19350	711597 & 711598	WMWBARPU_1343
BB19351	711597 & 711598	WMWBARPU_1343

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

General Quality Control Procedures:

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

Certificate Of Analysis

Description: Barry Pooled Upgradient - MW-4

Location Code: WMWBARPU
Collected: 10/18/21 14:05
Customer ID:
Submittal Date: 10/20/21 12:21

Laboratory ID Number: BB19346

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	10/21/21 12:00	10/22/21 12:57		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	10/21/21 12:00	10/22/21 12:57		1.015	2.01	mg/L	0.070035	0.406	
* Iron, Total	10/21/21 12:00	10/22/21 12:57		1.015	0.103	mg/L	0.008120	0.0406	
* Lithium, Total	10/21/21 12:00	10/22/21 12:57		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/21/21 12:00	10/22/21 12:57		1.015	2.28	mg/L	0.021315	0.406	
* Sodium, Total	10/21/21 12:00	10/22/21 12:57		1.015	2.59	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	10/20/21 14:00	10/21/21 12:33		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/20/21 14:37	10/22/21 12:13		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/20/21 14:37	10/22/21 12:13		1.015	0.000193	mg/L	0.000068	0.000203	J
* Barium, Total	10/20/21 14:37	10/22/21 12:13		1.015	0.124	mg/L	0.000102	0.000203	
* Beryllium, Total	10/20/21 14:37	10/22/21 12:13		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/20/21 14:37	10/22/21 12:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/20/21 14:37	10/22/21 12:13		1.015	0.00146	mg/L	0.000203	0.001015	
* Cobalt, Total	10/20/21 14:37	10/22/21 12:13		1.015	0.00139	mg/L	0.000068	0.000203	
* Lead, Total	10/20/21 14:37	10/22/21 12:13		1.015	0.000120	mg/L	0.000068	0.000203	J
* Molybdenum, Total	10/20/21 14:37	10/22/21 12:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	10/20/21 14:37	10/22/21 12:13		1.015	1.06	mg/L	0.169505	0.5075	
* Manganese, Total	10/20/21 14:37	10/22/21 12:13		1.015	0.0171	mg/L	0.000068	0.000203	
* Selenium, Total	10/20/21 14:37	10/22/21 12:13		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/20/21 14:37	10/22/21 12:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	10/20/21 14:06	10/20/21 15:35		1.015	0.0179	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	10/26/21 16:36	10/26/21 21:37		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	10/26/21 11:35	10/26/21 11:55		1	1.20	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/20/21 14:37	10/25/21 12:31		1	36.0	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. TDS Batch#710960 does not have a precision result due to one of the QC beakers broke during analysis.

Certificate Of Analysis

Description: Barry Pooled Upgradient - MW-4

Location Code: WMWBARPU
Collected: 10/18/21 14:05
Customer ID:
Submittal Date: 10/20/21 12:21

Laboratory ID Number: BB19346

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	10/26/21 11:35	10/26/21 11:55		1	1.20	mg/L			
Carbonate Alkalinity, (calc.)	10/26/21 11:35	10/26/21 11:55		1	0.00	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/21/21 10:16	10/21/21 10:16		1	3.32	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/21/21 11:56	10/21/21 11:56		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/26/21 13:56	10/26/21 13:56		1	6.58	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	10/18/21 14:00	10/18/21 14:00			64.28	uS/cm			FA
pH	10/18/21 14:00	10/18/21 14:00			4.38	SU			FA
Temperature	10/18/21 14:00	10/18/21 14:00			21.67	C			FA
Turbidity	10/18/21 14:00	10/18/21 14:00			4.19	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. TDS Batch#710960 does not have a precision result due to one of the QC beakers broke during analysis.

Batch QC Summary

Customer Account: WMWBARPU
Sample Date: 10/18/21 14:05
Customer ID:
Delivery Date: 10/20/21 12:21

Description: Barry Pooled Upgradient - MW-4

Laboratory ID Number: BB19346

Sample	Analysis	Units	MB				Standard		Rec		Prec	Limit	
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec			Limit
BB19352	Antimony, Total	mg/L	0.0000747	0.00100	0.100	0.0948	0.0945	0.0940	0.0850 to 0.115	94.8	70.0 to 130	0.317	20.0
BB19352	Lead, Total	mg/L	0.0000059	0.000147	0.100	0.101	0.0990	0.0997	0.0850 to 0.115	101	70.0 to 130	2.00	20.0
BB19352	Magnesium, Total	mg/L	0.000158	0.0462	5.00	5.25	5.25	5.25	4.25 to 5.75	105	70.0 to 130	0.00	20.0
BB19352	Selenium, Total	mg/L	0.0000102	0.00100	0.100	0.0985	0.0970	0.0987	0.0850 to 0.115	98.5	70.0 to 130	1.53	20.0
BB19351	Manganese, Dissolved	mg/L	0.0000237	0.000147	0.100	0.270	0.269	0.102	0.0850 to 0.115	104	70.0 to 130	0.371	20.0
BB19352	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0960	0.0974	0.0953	0.0850 to 0.115	96.0	70.0 to 130	1.45	20.0
BB19352	Molybdenum, Total	mg/L	0.0000313	0.000147	0.100	0.0953	0.0970	0.0952	0.0850 to 0.115	95.3	70.0 to 130	1.77	20.0
BB19352	Calcium, Total	mg/L	0.00577	0.152	5.00	5.18	5.16	5.17	4.25 to 5.75	104	70.0 to 130	0.387	20.0
BB19352	Boron, Total	mg/L	0.00130	0.0650	1.00	1.02	1.02	1.03	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BB19352	Beryllium, Total	mg/L	0.0000260	0.000880	0.100	0.0915	0.0892	0.0913	0.0850 to 0.115	91.5	70.0 to 130	2.55	20.0
BB19352	Chromium, Total	mg/L	0.0000704	0.000440	0.100	0.100	0.101	0.0980	0.0850 to 0.115	99.7	70.0 to 130	0.995	20.0
BB19352	Arsenic, Total	mg/L	-0.0000077	0.000147	0.100	0.0989	0.101	0.0991	0.0850 to 0.115	98.9	70.0 to 130	2.10	20.0
BB19352	Cobalt, Total	mg/L	0.0000047	0.000147	0.100	0.0996	0.103	0.0996	0.0850 to 0.115	99.6	70.0 to 130	3.36	20.0
BB19352	Thallium, Total	mg/L	0.0000088	0.000147	0.100	0.0929	0.0938	0.0924	0.0850 to 0.115	92.9	70.0 to 130	0.964	20.0
BB19351	Iron, Dissolved	mg/L	-7.660E-05	0.0176	0.2	4.04	4.03	0.209	0.170 to 0.230	85.0	70.0 to 130	0.248	20.0
BB19352	Manganese, Total	mg/L	0.0000056	0.000147	0.100	0.0993	0.104	0.101	0.0850 to 0.115	99.3	70.0 to 130	4.62	20.0
BB19352	Iron, Total	mg/L	0.000444	0.0176	0.2	0.207	0.206	0.206	0.170 to 0.230	104	70.0 to 130	0.484	20.0
BB19352	Sodium, Total	mg/L	0.00156	0.0660	5.00	5.10	5.05	5.10	4.25 to 5.75	102	70.0 to 130	0.985	20.0
BB19352	Potassium, Total	mg/L	-0.00558	0.367	10.0	9.97	10.2	10.0	8.50 to 11.5	99.7	70.0 to 130	2.28	20.0
BB19352	Barium, Total	mg/L	-0.0000330	0.000200	0.100	0.0942	0.0968	0.0960	0.0850 to 0.115	94.2	70.0 to 130	2.72	20.0
BB19352	Mercury, Total by CVAA	mg/L	-1.000E-05	0.000500	0.004	0.004	0.00402	0.00402	0.00340 to 0.00460	100	70.0 to 130	0.499	20.0
BB19352	Lithium, Total	mg/L	2.830E-05	0.0154	0.200	0.203	0.203	0.204	0.170 to 0.230	102	70.0 to 130	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. TDS Batch#710960 does not have a precision result due to one of the QC beakers broke during analysis.

Batch QC Summary

Customer Account: WMWBARPU
Sample Date: 10/18/21 14:05
Customer ID:
Delivery Date: 10/20/21 12:21

Description: Barry Pooled Upgradient - MW-4

Laboratory ID Number: BB19346

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BB19352	Chloride	mg/L	0.00509	1.00	10.0	9.74	0.030	9.96	9.00 to 11.0	97.4	80.0 to 120	0.00	20.0
BB19350	Solids, Dissolved	mg/L	1.00	25.0				49.0	40.0 to 60.0				10.0
BB19352	Sulfate	mg/L	0.538	1.00	20.0	19.5	0.659	20.3	18.0 to 22.0	92.9	80.0 to 120	33.4	20.0
BB19352	Fluoride	mg/L	0.0331	0.100	2.50	2.50	0.0218	2.55	2.25 to 2.75	100	80.0 to 120	0.00	20.0
BB19351	Alkalinity, Total as CaCO3	mg/L					1.04	49.7	45.0 to 55.0			8.00	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. TDS Batch#710960 does not have a precision result due to one of the QC beakers broke during analysis.

Certificate Of Analysis

Description: Barry Pooled Upgradient - MW-3

Location Code: WMWBARPU
Collected: 10/18/21 15:33
Customer ID:
Submittal Date: 10/20/21 12:21

Laboratory ID Number: BB19347

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	10/21/21 12:00	10/22/21 13:00		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	10/21/21 12:00	10/22/21 13:00		1.015	2.10	mg/L	0.070035	0.406		
* Iron, Total	10/21/21 12:00	10/22/21 13:00		1.015	0.0172	mg/L	0.008120	0.0406	J	
* Lithium, Total	10/21/21 12:00	10/22/21 13:00		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	10/21/21 12:00	10/22/21 13:00		1.015	2.11	mg/L	0.021315	0.406		
* Sodium, Total	10/21/21 12:00	10/22/21 13:00		1.015	2.95	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: RDA								
* Iron, Dissolved	10/20/21 14:00	10/21/21 12:37		1.015	Not Detected	mg/L	0.008120	0.0406	U	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	10/20/21 14:37	10/22/21 12:17		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Arsenic, Total	10/20/21 14:37	10/22/21 12:17		1.015	0.0000869	mg/L	0.000068	0.000203	J	
* Barium, Total	10/20/21 14:37	10/22/21 12:17		1.015	0.0935	mg/L	0.000102	0.000203		
* Beryllium, Total	10/20/21 14:37	10/22/21 12:17		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	10/20/21 14:37	10/22/21 12:17		1.015	0.0000725	mg/L	0.000068	0.000203	J	
* Chromium, Total	10/20/21 14:37	10/22/21 12:17		1.015	0.00130	mg/L	0.000203	0.001015		
* Cobalt, Total	10/20/21 14:37	10/22/21 12:17		1.015	0.00146	mg/L	0.000068	0.000203		
* Lead, Total	10/20/21 14:37	10/22/21 12:17		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Molybdenum, Total	10/20/21 14:37	10/22/21 12:17		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Potassium, Total	10/20/21 14:37	10/22/21 12:17		1.015	1.00	mg/L	0.169505	0.5075		
* Manganese, Total	10/20/21 14:37	10/22/21 12:17		1.015	0.0193	mg/L	0.000068	0.000203		
* Selenium, Total	10/20/21 14:37	10/22/21 12:17		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	10/20/21 14:37	10/22/21 12:17		1.015	Not Detected	mg/L	0.000068	0.000203	U	
Analytical Method: EPA 200.8		Analyst: DLJ								
* Manganese, Dissolved	10/20/21 14:06	10/20/21 15:39		1.015	0.0200	mg/L	0.000068	0.000203		
Analytical Method: EPA 245.1		Analyst: CRB								
* Mercury, Total by CVAA	10/26/21 16:36	10/26/21 21:40		1	Not Detected	mg/L	0.0003	0.0005	U	
Analytical Method: SM 2320 B		Analyst: JAG								
Alkalinity, Total as CaCO3	10/26/21 11:35	10/26/21 11:55		1	0.76	mg/L		0.1		
Analytical Method: SM 2540C		Analyst: CNJ								
* Solids, Dissolved	10/20/21 14:37	10/25/21 12:31		1	36.0	mg/L		25		

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. TDS Batch#710960 does not have a precision result due to one of the QC beakers broke during analysis.

Certificate Of Analysis

Description: Barry Pooled Upgradient - MW-3

Location Code: WMWBARPU
Collected: 10/18/21 15:33
Customer ID:
Submittal Date: 10/20/21 12:21

Laboratory ID Number: BB19347

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	10/26/21 11:35	10/26/21 11:55		1	0.76	mg/L			
Carbonate Alkalinity, (calc.)	10/26/21 11:35	10/26/21 11:55		1	0.00	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/21/21 10:17	10/21/21 10:17		1	3.45	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/21/21 11:57	10/21/21 11:57		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/26/21 13:57	10/26/21 13:57		1	7.36	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	10/18/21 15:30	10/18/21 15:30			62.97	uS/cm			FA
pH	10/18/21 15:30	10/18/21 15:30			4.55	SU			FA
Temperature	10/18/21 15:30	10/18/21 15:30			20.14	C			FA
Turbidity	10/18/21 15:30	10/18/21 15:30			1.92	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. TDS Batch#710960 does not have a precision result due to one of the QC beakers broke during analysis.

Batch QC Summary

Customer Account: WMWBARPU
Sample Date: 10/18/21 15:33
Customer ID:
Delivery Date: 10/20/21 12:21

Description: Barry Pooled Upgradient - MW-3

Laboratory ID Number: BB19347

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB19352	Antimony, Total	mg/L	0.0000747	0.00100	0.100	0.0948	0.0945	0.0940	0.0850 to 0.115	94.8	70.0 to 130	0.317	20.0
BB19351	Manganese, Dissolved	mg/L	0.0000237	0.000147	0.100	0.270	0.269	0.102	0.0850 to 0.115	104	70.0 to 130	0.371	20.0
BB19352	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0960	0.0974	0.0953	0.0850 to 0.115	96.0	70.0 to 130	1.45	20.0
BB19352	Lead, Total	mg/L	0.0000059	0.000147	0.100	0.101	0.0990	0.0997	0.0850 to 0.115	101	70.0 to 130	2.00	20.0
BB19352	Magnesium, Total	mg/L	0.000158	0.0462	5.00	5.25	5.25	5.25	4.25 to 5.75	105	70.0 to 130	0.00	20.0
BB19352	Selenium, Total	mg/L	0.0000102	0.00100	0.100	0.0985	0.0970	0.0987	0.0850 to 0.115	98.5	70.0 to 130	1.53	20.0
BB19352	Molybdenum, Total	mg/L	0.0000313	0.000147	0.100	0.0953	0.0970	0.0952	0.0850 to 0.115	95.3	70.0 to 130	1.77	20.0
BB19352	Calcium, Total	mg/L	0.00577	0.152	5.00	5.18	5.16	5.17	4.25 to 5.75	104	70.0 to 130	0.387	20.0
BB19352	Boron, Total	mg/L	0.00130	0.0650	1.00	1.02	1.02	1.03	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BB19352	Beryllium, Total	mg/L	0.0000260	0.000880	0.100	0.0915	0.0892	0.0913	0.0850 to 0.115	91.5	70.0 to 130	2.55	20.0
BB19352	Chromium, Total	mg/L	0.0000704	0.000440	0.100	0.100	0.101	0.0980	0.0850 to 0.115	99.7	70.0 to 130	0.995	20.0
BB19352	Arsenic, Total	mg/L	-0.0000077	0.000147	0.100	0.0989	0.101	0.0991	0.0850 to 0.115	98.9	70.0 to 130	2.10	20.0
BB19352	Cobalt, Total	mg/L	0.0000047	0.000147	0.100	0.0996	0.103	0.0996	0.0850 to 0.115	99.6	70.0 to 130	3.36	20.0
BB19352	Thallium, Total	mg/L	0.0000088	0.000147	0.100	0.0929	0.0938	0.0924	0.0850 to 0.115	92.9	70.0 to 130	0.964	20.0
BB19351	Iron, Dissolved	mg/L	-7.660E-05	0.0176	0.2	4.04	4.03	0.209	0.170 to 0.230	85.0	70.0 to 130	0.248	20.0
BB19352	Manganese, Total	mg/L	0.0000056	0.000147	0.100	0.0993	0.104	0.101	0.0850 to 0.115	99.3	70.0 to 130	4.62	20.0
BB19352	Iron, Total	mg/L	0.000444	0.0176	0.2	0.207	0.206	0.206	0.170 to 0.230	104	70.0 to 130	0.484	20.0
BB19352	Sodium, Total	mg/L	0.00156	0.0660	5.00	5.10	5.05	5.10	4.25 to 5.75	102	70.0 to 130	0.985	20.0
BB19352	Potassium, Total	mg/L	-0.00558	0.367	10.0	9.97	10.2	10.0	8.50 to 11.5	99.7	70.0 to 130	2.28	20.0
BB19352	Barium, Total	mg/L	-0.0000330	0.000200	0.100	0.0942	0.0968	0.0960	0.0850 to 0.115	94.2	70.0 to 130	2.72	20.0
BB19352	Mercury, Total by CVAA	mg/L	-1.000E-05	0.000500	0.004	0.004	0.00402	0.00402	0.00340 to 0.00460	100	70.0 to 130	0.499	20.0
BB19352	Lithium, Total	mg/L	2.830E-05	0.0154	0.200	0.203	0.203	0.204	0.170 to 0.230	102	70.0 to 130	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. TDS Batch#710960 does not have a precision result due to one of the QC beakers broke during analysis.

Batch QC Summary

Customer Account: WMWBARPU
Sample Date: 10/18/21 15:33
Customer ID:
Delivery Date: 10/20/21 12:21

Description: Barry Pooled Upgradient - MW-3

Laboratory ID Number: BB19347

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BB19350	Solids, Dissolved	mg/L	1.00	25.0				49.0	40.0 to 60.0				10.0
BB19352	Chloride	mg/L	0.00509	1.00	10.0	9.74	0.030	9.96	9.00 to 11.0	97.4	80.0 to 120	0.00	20.0
BB19352	Sulfate	mg/L	0.538	1.00	20.0	19.5	0.659	20.3	18.0 to 22.0	92.9	80.0 to 120	33.4	20.0
BB19351	Alkalinity, Total as CaCO3	mg/L					1.04	49.7	45.0 to 55.0			8.00	10.0
BB19352	Fluoride	mg/L	0.0331	0.100	2.50	2.50	0.0218	2.55	2.25 to 2.75	100	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. TDS Batch#710960 does not have a precision result due to one of the QC beakers broke during analysis.

Certificate Of Analysis

Description: Barry Pooled Upgradient - MW-3 DUP

Location Code: WMWBARPU
Collected: 10/18/21 15:33
Customer ID:
Submittal Date: 10/20/21 12:21

Laboratory ID Number: BB19348

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	10/21/21 12:00	10/22/21 13:04		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	10/21/21 12:00	10/22/21 13:04		1.015	2.09	mg/L	0.070035	0.406		
* Iron, Total	10/21/21 12:00	10/22/21 13:04		1.015	0.0241	mg/L	0.008120	0.0406	J	
* Lithium, Total	10/21/21 12:00	10/22/21 13:04		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	10/21/21 12:00	10/22/21 13:04		1.015	2.11	mg/L	0.021315	0.406		
* Sodium, Total	10/21/21 12:00	10/22/21 13:04		1.015	2.94	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Iron, Dissolved	10/20/21 14:00	10/21/21 12:40		1.015	Not Detected	mg/L	0.008120	0.0406	U	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	10/20/21 14:37	10/22/21 12:21		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Arsenic, Total	10/20/21 14:37	10/22/21 12:21		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Barium, Total	10/20/21 14:37	10/22/21 12:21		1.015	0.0982	mg/L	0.000102	0.000203		
* Beryllium, Total	10/20/21 14:37	10/22/21 12:21		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	10/20/21 14:37	10/22/21 12:21		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	10/20/21 14:37	10/22/21 12:21		1.015	0.00135	mg/L	0.000203	0.001015		
* Cobalt, Total	10/20/21 14:37	10/22/21 12:21		1.015	0.00156	mg/L	0.000068	0.000203		
* Lead, Total	10/20/21 14:37	10/22/21 12:21		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Molybdenum, Total	10/20/21 14:37	10/22/21 12:21		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Potassium, Total	10/20/21 14:37	10/22/21 12:21		1.015	0.965	mg/L	0.169505	0.5075		
* Manganese, Total	10/20/21 14:37	10/22/21 12:21		1.015	0.0202	mg/L	0.000068	0.000203		
* Selenium, Total	10/20/21 14:37	10/22/21 12:21		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	10/20/21 14:37	10/22/21 12:21		1.015	Not Detected	mg/L	0.000068	0.000203	U	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Manganese, Dissolved	10/20/21 14:06	10/20/21 15:43		1.015	0.0206	mg/L	0.000068	0.000203		
Analytical Method: EPA 245.1		Analyst: CRB			Preparation Method: EPA 1638					
* Mercury, Total by CVAA	10/26/21 16:36	10/26/21 21:44		1	Not Detected	mg/L	0.0003	0.0005	U	
Analytical Method: SM 2320 B		Analyst: JAG			Preparation Method: EPA 1638					
Alkalinity, Total as CaCO3	10/26/21 11:35	10/26/21 11:55		1	0.40	mg/L		0.1		
Analytical Method: SM 2540C		Analyst: CNJ			Preparation Method: EPA 1638					
* Solids, Dissolved	10/20/21 14:37	10/25/21 12:31		1	54.0	mg/L		25		

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. TDS Batch#710960 does not have a precision result due to one of the QC beakers broke during analysis.

Certificate Of Analysis

Description: Barry Pooled Upgradient - MW-3 DUP

Location Code: WMWBARPU
Collected: 10/18/21 15:33
Customer ID:
Submittal Date: 10/20/21 12:21

Laboratory ID Number: BB19348

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	10/26/21 11:35	10/26/21 11:55		1	0.40	mg/L			
Carbonate Alkalinity, (calc.)	10/26/21 11:35	10/26/21 11:55		1	0.00	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/21/21 10:18	10/21/21 10:18		1	3.41	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/21/21 11:58	10/21/21 11:58		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/26/21 13:58	10/26/21 13:58		1	7.07	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	10/18/21 15:30	10/18/21 15:30			62.97	uS/cm			FA
pH	10/18/21 15:30	10/18/21 15:30			4.55	SU			FA
Temperature	10/18/21 15:30	10/18/21 15:30			20.14	C			FA
Turbidity	10/18/21 15:30	10/18/21 15:30			1.92	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. TDS Batch#710960 does not have a precision result due to one of the QC beakers broke during analysis.

Batch QC Summary

Customer Account: WMWBARPU
Sample Date: 10/18/21 15:33
Customer ID:
Delivery Date: 10/20/21 12:21

Description: Barry Pooled Upgradient - MW-3 DUP

Laboratory ID Number: BB19348

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BB19352	Antimony, Total	mg/L	0.0000747	0.00100	0.100	0.0948	0.0945	0.0940	0.0850 to 0.115	94.8	70.0 to 130	0.317	20.0
BB19351	Manganese, Dissolved	mg/L	0.0000237	0.000147	0.100	0.270	0.269	0.102	0.0850 to 0.115	104	70.0 to 130	0.371	20.0
BB19352	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0960	0.0974	0.0953	0.0850 to 0.115	96.0	70.0 to 130	1.45	20.0
BB19352	Molybdenum, Total	mg/L	0.0000313	0.000147	0.100	0.0953	0.0970	0.0952	0.0850 to 0.115	95.3	70.0 to 130	1.77	20.0
BB19352	Calcium, Total	mg/L	0.00577	0.152	5.00	5.18	5.16	5.17	4.25 to 5.75	104	70.0 to 130	0.387	20.0
BB19352	Boron, Total	mg/L	0.00130	0.0650	1.00	1.02	1.02	1.03	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BB19352	Beryllium, Total	mg/L	0.0000260	0.000880	0.100	0.0915	0.0892	0.0913	0.0850 to 0.115	91.5	70.0 to 130	2.55	20.0
BB19352	Lead, Total	mg/L	0.0000059	0.000147	0.100	0.101	0.0990	0.0997	0.0850 to 0.115	101	70.0 to 130	2.00	20.0
BB19352	Magnesium, Total	mg/L	0.000158	0.0462	5.00	5.25	5.25	5.25	4.25 to 5.75	105	70.0 to 130	0.00	20.0
BB19352	Selenium, Total	mg/L	0.0000102	0.00100	0.100	0.0985	0.0970	0.0987	0.0850 to 0.115	98.5	70.0 to 130	1.53	20.0
BB19352	Chromium, Total	mg/L	0.0000704	0.000440	0.100	0.100	0.101	0.0980	0.0850 to 0.115	99.7	70.0 to 130	0.995	20.0
BB19352	Arsenic, Total	mg/L	-0.0000077	0.000147	0.100	0.0989	0.101	0.0991	0.0850 to 0.115	98.9	70.0 to 130	2.10	20.0
BB19352	Cobalt, Total	mg/L	0.0000047	0.000147	0.100	0.0996	0.103	0.0996	0.0850 to 0.115	99.6	70.0 to 130	3.36	20.0
BB19352	Potassium, Total	mg/L	-0.00558	0.367	10.0	9.97	10.2	10.0	8.50 to 11.5	99.7	70.0 to 130	2.28	20.0
BB19352	Barium, Total	mg/L	-0.0000330	0.000200	0.100	0.0942	0.0968	0.0960	0.0850 to 0.115	94.2	70.0 to 130	2.72	20.0
BB19352	Mercury, Total by CVAA	mg/L	-1.000E-05	0.000500	0.004	0.004	0.00402	0.00402	0.00340 to 0.00460	100	70.0 to 130	0.499	20.0
BB19352	Lithium, Total	mg/L	2.830E-05	0.0154	0.200	0.203	0.203	0.204	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BB19352	Thallium, Total	mg/L	0.0000088	0.000147	0.100	0.0929	0.0938	0.0924	0.0850 to 0.115	92.9	70.0 to 130	0.964	20.0
BB19351	Iron, Dissolved	mg/L	-7.660E-05	0.0176	0.2	4.04	4.03	0.209	0.170 to 0.230	85.0	70.0 to 130	0.248	20.0
BB19352	Manganese, Total	mg/L	0.0000056	0.000147	0.100	0.0993	0.104	0.101	0.0850 to 0.115	99.3	70.0 to 130	4.62	20.0
BB19352	Iron, Total	mg/L	0.000444	0.0176	0.2	0.207	0.206	0.206	0.170 to 0.230	104	70.0 to 130	0.484	20.0
BB19352	Sodium, Total	mg/L	0.00156	0.0660	5.00	5.10	5.05	5.10	4.25 to 5.75	102	70.0 to 130	0.985	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. TDS Batch#710960 does not have a precision result due to one of the QC beakers broke during analysis.

Batch QC Summary

Customer Account: WMWBARPU
Sample Date: 10/18/21 15:33
Customer ID:
Delivery Date: 10/20/21 12:21

Description: Barry Pooled Upgradient - MW-3 DUP

Laboratory ID Number: BB19348

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB19352	Sulfate	mg/L	0.538	1.00	20.0	19.5	0.659	20.3	18.0 to 22.0	92.9	80.0 to 120	33.4	20.0
BB19350	Solids, Dissolved	mg/L	1.00	25.0				49.0	40.0 to 60.0				10.0
BB19351	Alkalinity, Total as CaCO3	mg/L					1.04	49.7	45.0 to 55.0			8.00	10.0
BB19352	Chloride	mg/L	0.00509	1.00	10.0	9.74	0.030	9.96	9.00 to 11.0	97.4	80.0 to 120	0.00	20.0
BB19352	Fluoride	mg/L	0.0331	0.100	2.50	2.50	0.0218	2.55	2.25 to 2.75	100	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. TDS Batch#710960 does not have a precision result due to one of the QC beakers broke during analysis.

Certificate Of Analysis

Description: Barry Pooled Upgradient Field Blank-1

Location Code: WMWBARPUFB
Collected: 10/18/21 16:15
Customer ID:
Submittal Date: 10/20/21 12:21

Laboratory ID Number: BB19349

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	10/21/21 12:00	10/22/21 13:07		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	10/21/21 12:00	10/22/21 13:07		1.015	Not Detected	mg/L	0.070035	0.406	U	
* Iron, Total	10/21/21 12:00	10/22/21 13:07		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	10/21/21 12:00	10/22/21 13:07		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	10/21/21 12:00	10/22/21 13:07		1.015	Not Detected	mg/L	0.021315	0.406	U	
* Sodium, Total	10/21/21 12:00	10/22/21 13:07		1.015	Not Detected	mg/L	0.03045	0.406	U	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	10/20/21 14:37	10/22/21 12:24		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Arsenic, Total	10/20/21 14:37	10/22/21 12:24		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Barium, Total	10/20/21 14:37	10/22/21 12:24		1.015	Not Detected	mg/L	0.000102	0.000203	U	
* Beryllium, Total	10/20/21 14:37	10/22/21 12:24		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	10/20/21 14:37	10/22/21 12:24		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	10/20/21 14:37	10/22/21 12:24		1.015	0.000325	mg/L	0.000203	0.001015	J	
* Cobalt, Total	10/20/21 14:37	10/22/21 12:24		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	10/20/21 14:37	10/22/21 12:24		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Molybdenum, Total	10/20/21 14:37	10/22/21 12:24		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	10/20/21 14:37	10/22/21 12:24		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Potassium, Total	10/20/21 14:37	10/22/21 12:24		1.015	Not Detected	mg/L	0.169505	0.5075	U	
* Selenium, Total	10/20/21 14:37	10/22/21 12:24		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	10/20/21 14:37	10/22/21 12:24		1.015	Not Detected	mg/L	0.000068	0.000203	U	
Analytical Method: EPA 245.1		Analyst: CRB								
* Mercury, Total by CVAA	10/26/21 16:36	10/26/21 21:48		1	Not Detected	mg/L	0.0003	0.0005	U	
Analytical Method: SM 2540C		Analyst: CNJ								
* Solids, Dissolved	10/20/21 14:37	10/25/21 12:31		1	Not Detected	mg/L		25	U	
Analytical Method: SM4500Cl E		Analyst: JCC								
* Chloride	10/21/21 10:19	10/21/21 10:19		1	Not Detected	mg/L	0.50	1	U	
Analytical Method: SM4500F G 2017		Analyst: JCC								
* Fluoride	10/21/21 11:59	10/21/21 11:59		1	Not Detected	mg/L	0.06	0.1	U	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC								
* Sulfate	10/26/21 13:59	10/26/21 13:59		1	0.631	mg/L	0.50	1	J	

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

Comments: TDS Batch#710960 does not have a precision result due to one of the QC beakers broke during analysis.

Batch QC Summary

Customer Account: WMWBARPUFB
Sample Date: 10/18/21 16:15
Customer ID:
Delivery Date: 10/20/21 12:21

Description: Barry Pooled Upgradient Field Blank-1

Laboratory ID Number: BB19349

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB19352	Antimony, Total	mg/L	0.0000747	0.00100	0.100	0.0948	0.0945	0.0940	0.0850 to 0.115	94.8	70.0 to 130	0.317	20.0
BB19352	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0960	0.0974	0.0953	0.0850 to 0.115	96.0	70.0 to 130	1.45	20.0
BB19352	Lead, Total	mg/L	0.0000059	0.000147	0.100	0.101	0.0990	0.0997	0.0850 to 0.115	101	70.0 to 130	2.00	20.0
BB19352	Magnesium, Total	mg/L	0.000158	0.0462	5.00	5.25	5.25	5.25	4.25 to 5.75	105	70.0 to 130	0.00	20.0
BB19352	Selenium, Total	mg/L	0.0000102	0.00100	0.100	0.0985	0.0970	0.0987	0.0850 to 0.115	98.5	70.0 to 130	1.53	20.0
BB19352	Chromium, Total	mg/L	0.0000704	0.000440	0.100	0.100	0.101	0.0980	0.0850 to 0.115	99.7	70.0 to 130	0.995	20.0
BB19352	Arsenic, Total	mg/L	-0.0000077	0.000147	0.100	0.0989	0.101	0.0991	0.0850 to 0.115	98.9	70.0 to 130	2.10	20.0
BB19352	Cobalt, Total	mg/L	0.0000047	0.000147	0.100	0.0996	0.103	0.0996	0.0850 to 0.115	99.6	70.0 to 130	3.36	20.0
BB19352	Molybdenum, Total	mg/L	0.0000313	0.000147	0.100	0.0953	0.0970	0.0952	0.0850 to 0.115	95.3	70.0 to 130	1.77	20.0
BB19352	Calcium, Total	mg/L	0.00577	0.152	5.00	5.18	5.16	5.17	4.25 to 5.75	104	70.0 to 130	0.387	20.0
BB19352	Boron, Total	mg/L	0.00130	0.0650	1.00	1.02	1.02	1.03	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BB19352	Beryllium, Total	mg/L	0.0000260	0.000880	0.100	0.0915	0.0892	0.0913	0.0850 to 0.115	91.5	70.0 to 130	2.55	20.0
BB19352	Thallium, Total	mg/L	0.0000088	0.000147	0.100	0.0929	0.0938	0.0924	0.0850 to 0.115	92.9	70.0 to 130	0.964	20.0
BB19352	Manganese, Total	mg/L	0.0000056	0.000147	0.100	0.0993	0.104	0.101	0.0850 to 0.115	99.3	70.0 to 130	4.62	20.0
BB19352	Iron, Total	mg/L	0.000444	0.0176	0.2	0.207	0.206	0.206	0.170 to 0.230	104	70.0 to 130	0.484	20.0
BB19352	Sodium, Total	mg/L	0.00156	0.0660	5.00	5.10	5.05	5.10	4.25 to 5.75	102	70.0 to 130	0.985	20.0
BB19352	Potassium, Total	mg/L	-0.00558	0.367	10.0	9.97	10.2	10.0	8.50 to 11.5	99.7	70.0 to 130	2.28	20.0
BB19352	Barium, Total	mg/L	-0.0000330	0.000200	0.100	0.0942	0.0968	0.0960	0.0850 to 0.115	94.2	70.0 to 130	2.72	20.0
BB19352	Mercury, Total by CVAA	mg/L	-1.000E-05	0.000500	0.004	0.004	0.00402	0.00402	0.00340 to 0.00460	100	70.0 to 130	0.499	20.0
BB19352	Lithium, Total	mg/L	2.830E-05	0.0154	0.200	0.203	0.203	0.204	0.170 to 0.230	102	70.0 to 130	0.00	20.0

Comments: TDS Batch#710960 does not have a precision result due to one of the QC beakers broke during analysis.

Batch QC Summary

Customer Account: WMWBARPUFB

Sample Date: 10/18/21 16:15

Customer ID:

Delivery Date: 10/20/21 12:21

Description: Barry Pooled Upgradient Field Blank-1

Laboratory ID Number: BB19349

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BB19350	Solids, Dissolved	mg/L	1.00	25.0				49.0	40.0 to 60.0				10.0
BB19352	Chloride	mg/L	0.00509	1.00	10.0	9.74	0.030	9.96	9.00 to 11.0	97.4	80.0 to 120	0.00	20.0
BB19352	Sulfate	mg/L	0.538	1.00	20.0	19.5	0.659	20.3	18.0 to 22.0	92.9	80.0 to 120	33.4	20.0
BB19352	Fluoride	mg/L	0.0331	0.100	2.50	2.50	0.0218	2.55	2.25 to 2.75	100	80.0 to 120	0.00	20.0

Comments: TDS Batch#710960 does not have a precision result due to one of the QC beakers broke during analysis.

Certificate Of Analysis

Description: Barry Pooled Upgradient - MW-2

Location Code: WMWBARPU
Collected: 10/19/21 08:45
Customer ID:
Submittal Date: 10/20/21 12:21

Laboratory ID Number: BB19350

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	10/21/21 12:00	10/22/21 13:10		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	10/21/21 12:00	10/22/21 13:10		1.015	1.32	mg/L	0.070035	0.406	
* Iron, Total	10/21/21 12:00	10/22/21 13:10		1.015	0.164	mg/L	0.008120	0.0406	
* Lithium, Total	10/21/21 12:00	10/22/21 13:10		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/21/21 12:00	10/22/21 13:10		1.015	2.66	mg/L	0.021315	0.406	
* Sodium, Total	10/21/21 12:00	10/22/21 13:10		1.015	2.17	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	10/20/21 14:00	10/21/21 12:43		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/20/21 14:37	10/22/21 12:28		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/20/21 14:37	10/22/21 12:28		1.015	0.000122	mg/L	0.000068	0.000203	J
* Barium, Total	10/20/21 14:37	10/22/21 12:28		1.015	0.145	mg/L	0.000102	0.000203	
* Beryllium, Total	10/20/21 14:37	10/22/21 12:28		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/20/21 14:37	10/22/21 12:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/20/21 14:37	10/22/21 12:28		1.015	0.00135	mg/L	0.000203	0.001015	
* Cobalt, Total	10/20/21 14:37	10/22/21 12:28		1.015	0.00192	mg/L	0.000068	0.000203	
* Lead, Total	10/20/21 14:37	10/22/21 12:28		1.015	0.000100	mg/L	0.000068	0.000203	J
* Molybdenum, Total	10/20/21 14:37	10/22/21 12:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	10/20/21 14:37	10/22/21 12:28		1.015	0.889	mg/L	0.169505	0.5075	
* Manganese, Total	10/20/21 14:37	10/22/21 12:28		1.015	0.0247	mg/L	0.000068	0.000203	
* Selenium, Total	10/20/21 14:37	10/22/21 12:28		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/20/21 14:37	10/22/21 12:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	10/20/21 14:06	10/20/21 15:46		1.015	0.0264	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	10/26/21 16:36	10/26/21 21:52		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	10/26/21 11:35	10/26/21 11:55		1	Not Detected	mg/L		0.1	U
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/20/21 14:37	10/25/21 12:31		1	36.0	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. TDS Batch#710960 does not have a precision result due to the sample selected as the QC point's, BB19350, original beaker broke during analysis. There was not enough sample to rerun BB19350 as the original and duplicate. Because the original and duplicate are prepared exactly the same, the duplicate result has been reported for the sample result for BB19350.

Certificate Of Analysis

Description: Barry Pooled Upgradient - MW-2

Location Code: WMWBARPU
Collected: 10/19/21 08:45
Customer ID:
Submittal Date: 10/20/21 12:21

Laboratory ID Number: BB19350

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	10/26/21 11:35	10/26/21 11:55		1	Not Detected	mg/L			
Carbonate Alkalinity, (calc.)	10/26/21 11:35	10/26/21 11:55		1	Not Detected	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/21/21 10:20	10/21/21 10:20		1	2.08	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/21/21 12:01	10/21/21 12:01		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/26/21 14:01	10/26/21 14:01		1	7.48	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	10/19/21 08:41	10/19/21 08:41			63.52	uS/cm			FA
pH	10/19/21 08:41	10/19/21 08:41			4.60	SU			FA
Temperature	10/19/21 08:41	10/19/21 08:41			19.82	C			FA
Turbidity	10/19/21 08:41	10/19/21 08:41			6.48	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. TDS Batch#710960 does not have a precision result due to the sample selected as the QC point's, BB19350, original beaker broke during analysis. There was not enough sample to rerun BB19350 as the original and duplicate. Because the original and duplicate are prepared exactly the same, the duplicate result has been reported for the sample result for BB19350.

Batch QC Summary

Customer Account: WMWBARPU
Sample Date: 10/19/21 08:45
Customer ID:
Delivery Date: 10/20/21 12:21

Description: Barry Pooled Upgradient - MW-2

Laboratory ID Number: BB19350

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB19351	Manganese, Dissolved	mg/L	0.0000237	0.000147	0.100	0.270	0.269	0.102	0.0850 to 0.115	104	70.0 to 130	0.371	20.0
BB19352	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0960	0.0974	0.0953	0.0850 to 0.115	96.0	70.0 to 130	1.45	20.0
BB19352	Antimony, Total	mg/L	0.0000747	0.00100	0.100	0.0948	0.0945	0.0940	0.0850 to 0.115	94.8	70.0 to 130	0.317	20.0
BB19352	Lead, Total	mg/L	0.0000059	0.000147	0.100	0.101	0.0990	0.0997	0.0850 to 0.115	101	70.0 to 130	2.00	20.0
BB19352	Magnesium, Total	mg/L	0.000158	0.0462	5.00	5.25	5.25	5.25	4.25 to 5.75	105	70.0 to 130	0.00	20.0
BB19352	Selenium, Total	mg/L	0.0000102	0.00100	0.100	0.0985	0.0970	0.0987	0.0850 to 0.115	98.5	70.0 to 130	1.53	20.0
BB19352	Chromium, Total	mg/L	0.0000704	0.000440	0.100	0.100	0.101	0.0980	0.0850 to 0.115	99.7	70.0 to 130	0.995	20.0
BB19352	Arsenic, Total	mg/L	-0.0000077	0.000147	0.100	0.0989	0.101	0.0991	0.0850 to 0.115	98.9	70.0 to 130	2.10	20.0
BB19352	Cobalt, Total	mg/L	0.0000047	0.000147	0.100	0.0996	0.103	0.0996	0.0850 to 0.115	99.6	70.0 to 130	3.36	20.0
BB19352	Potassium, Total	mg/L	-0.00558	0.367	10.0	9.97	10.2	10.0	8.50 to 11.5	99.7	70.0 to 130	2.28	20.0
BB19352	Barium, Total	mg/L	-0.0000330	0.000200	0.100	0.0942	0.0968	0.0960	0.0850 to 0.115	94.2	70.0 to 130	2.72	20.0
BB19352	Mercury, Total by CVAA	mg/L	-1.000E-05	0.000500	0.004	0.004	0.00402	0.00402	0.00340 to 0.00460	100	70.0 to 130	0.499	20.0
BB19352	Lithium, Total	mg/L	2.830E-05	0.0154	0.200	0.203	0.203	0.204	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BB19352	Thallium, Total	mg/L	0.0000088	0.000147	0.100	0.0929	0.0938	0.0924	0.0850 to 0.115	92.9	70.0 to 130	0.964	20.0
BB19351	Iron, Dissolved	mg/L	-7.660E-05	0.0176	0.2	4.04	4.03	0.209	0.170 to 0.230	85.0	70.0 to 130	0.248	20.0
BB19352	Manganese, Total	mg/L	0.0000056	0.000147	0.100	0.0993	0.104	0.101	0.0850 to 0.115	99.3	70.0 to 130	4.62	20.0
BB19352	Iron, Total	mg/L	0.000444	0.0176	0.2	0.207	0.206	0.206	0.170 to 0.230	104	70.0 to 130	0.484	20.0
BB19352	Sodium, Total	mg/L	0.00156	0.0660	5.00	5.10	5.05	5.10	4.25 to 5.75	102	70.0 to 130	0.985	20.0
BB19352	Molybdenum, Total	mg/L	0.0000313	0.000147	0.100	0.0953	0.0970	0.0952	0.0850 to 0.115	95.3	70.0 to 130	1.77	20.0
BB19352	Calcium, Total	mg/L	0.00577	0.152	5.00	5.18	5.16	5.17	4.25 to 5.75	104	70.0 to 130	0.387	20.0
BB19352	Boron, Total	mg/L	0.00130	0.0650	1.00	1.02	1.02	1.03	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BB19352	Beryllium, Total	mg/L	0.0000260	0.000880	0.100	0.0915	0.0892	0.0913	0.0850 to 0.115	91.5	70.0 to 130	2.55	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. TDS Batch#710960 does not have a precision result due to the sample selected as the QC point's, BB19350, original beaker broke during analysis. There was not enough sample to rerun BB19350 as the original and duplicate. Because the original and duplicate are prepared exactly the same, the duplicate result has been reported for the sample result for BB19350.

Batch QC Summary

Customer Account: WMWBARPU
Sample Date: 10/19/21 08:45
Customer ID:
Delivery Date: 10/20/21 12:21

Description: Barry Pooled Upgradient - MW-2

Laboratory ID Number: BB19350

Sample	Analysis	Units	MB	MB			Sample		Standard		Rec			Prec Limit
				Limit	Spike	MS	Duplicate	Standard	Limit	Rec	Limit	Prec		
BB19352	Sulfate	mg/L	0.538	1.00	20.0	19.5	0.659	20.3	18.0 to 22.0	92.9	80.0 to 120	33.4	20.0	
BB19352	Chloride	mg/L	0.00509	1.00	10.0	9.74	0.030	9.96	9.00 to 11.0	97.4	80.0 to 120	0.00	20.0	
BB19352	Fluoride	mg/L	0.0331	0.100	2.50	2.50	0.0218	2.55	2.25 to 2.75	100	80.0 to 120	0.00	20.0	
BB19351	Alkalinity, Total as CaCO3	mg/L					1.04	49.7	45.0 to 55.0			8.00	10.0	
BB19350	Solids, Dissolved	mg/L	1.00	25.0				49.0	40.0 to 60.0				10.0	

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. TDS Batch#710960 does not have a precision result due to the sample selected as the QC point's, BB19350, original beaker broke during analysis. There was not enough sample to rerun BB19350 as the original and duplicate. Because the original and duplicate are prepared exactly the same, the duplicate result has been reported for the sample result for BB19350.

Certificate Of Analysis

Description: Barry Pooled Upgradient - MW-1

Location Code: WMWBARPU
Collected: 10/19/21 09:45
Customer ID:
Submittal Date: 10/20/21 12:21

Laboratory ID Number: BB19351

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	10/21/21 12:00	10/22/21 13:14		1.015	0.0708	mg/L	0.030000	0.1015	J
* Calcium, Total	10/21/21 12:00	10/22/21 13:14		1.015	1.17	mg/L	0.070035	0.406	
* Iron, Total	10/21/21 12:00	10/22/21 14:33		10.15	4.16	mg/L	0.08120	0.406	
* Lithium, Total	10/21/21 12:00	10/22/21 13:14		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/21/21 12:00	10/22/21 13:14		1.015	2.24	mg/L	0.021315	0.406	
* Sodium, Total	10/21/21 12:00	10/22/21 13:14		1.015	2.33	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	10/20/21 14:00	10/21/21 12:47		1.015	3.87	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/20/21 14:37	10/22/21 12:31		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/20/21 14:37	10/22/21 12:31		1.015	0.000346	mg/L	0.000068	0.000203	
* Barium, Total	10/20/21 14:37	10/22/21 12:31		1.015	0.103	mg/L	0.000102	0.000203	
* Beryllium, Total	10/20/21 14:37	10/22/21 12:31		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/20/21 14:37	10/22/21 12:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/20/21 14:37	10/22/21 12:31		1.015	0.000301	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/20/21 14:37	10/22/21 12:31		1.015	0.00517	mg/L	0.000068	0.000203	
* Lead, Total	10/20/21 14:37	10/22/21 12:31		1.015	0.000115	mg/L	0.000068	0.000203	J
* Molybdenum, Total	10/20/21 14:37	10/22/21 12:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	10/20/21 14:37	10/22/21 12:31		1.015	0.472	mg/L	0.169505	0.5075	J
* Manganese, Total	10/20/21 14:37	10/22/21 12:31		1.015	0.156	mg/L	0.000068	0.000203	
* Selenium, Total	10/20/21 14:37	10/22/21 12:31		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/20/21 14:37	10/22/21 12:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	10/20/21 14:06	10/20/21 15:50		1.015	0.166	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	10/26/21 16:36	10/26/21 21:56		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	10/26/21 11:35	10/26/21 11:55		1	0.96	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/25/21 10:45	10/26/21 12:24		1	40.0	mg/L		25	

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

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

Certificate Of Analysis

Description: Barry Pooled Upgradient - MW-1

Location Code: WMWBARPU
Collected: 10/19/21 09:45
Customer ID:
Submittal Date: 10/20/21 12:21

Laboratory ID Number: BB19351

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	10/26/21 11:35	10/26/21 11:55		1	0.96	mg/L			
Carbonate Alkalinity, (calc.)	10/26/21 11:35	10/26/21 11:55		1	0.00	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/21/21 10:22	10/21/21 10:22		1	2.37	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/21/21 12:02	10/21/21 12:02		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/26/21 14:02	10/26/21 14:02		1	15.5	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	10/19/21 09:39	10/19/21 09:39			72.16	uS/cm			FA
pH	10/19/21 09:39	10/19/21 09:39			4.67	SU			FA
Temperature	10/19/21 09:39	10/19/21 09:39			20.76	C			FA
Turbidity	10/19/21 09:39	10/19/21 09:39			1.45	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWBARPU
Sample Date: 10/19/21 09:45
Customer ID:
Delivery Date: 10/20/21 12:21

Description: Barry Pooled Upgradient - MW-1

Laboratory ID Number: BB19351

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB19351	Manganese, Dissolved	mg/L	0.0000237	0.000147	0.100	0.270	0.269	0.102	0.0850 to 0.115	104	70.0 to 130	0.371	20.0
BB19352	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0960	0.0974	0.0953	0.0850 to 0.115	96.0	70.0 to 130	1.45	20.0
BB19352	Antimony, Total	mg/L	0.0000747	0.00100	0.100	0.0948	0.0945	0.0940	0.0850 to 0.115	94.8	70.0 to 130	0.317	20.0
BB19352	Lead, Total	mg/L	0.0000059	0.000147	0.100	0.101	0.0990	0.0997	0.0850 to 0.115	101	70.0 to 130	2.00	20.0
BB19352	Magnesium, Total	mg/L	0.000158	0.0462	5.00	5.25	5.25	5.25	4.25 to 5.75	105	70.0 to 130	0.00	20.0
BB19352	Selenium, Total	mg/L	0.0000102	0.00100	0.100	0.0985	0.0970	0.0987	0.0850 to 0.115	98.5	70.0 to 130	1.53	20.0
BB19352	Thallium, Total	mg/L	0.0000088	0.000147	0.100	0.0929	0.0938	0.0924	0.0850 to 0.115	92.9	70.0 to 130	0.964	20.0
BB19351	Iron, Dissolved	mg/L	-7.660E-05	0.0176	0.2	4.04	4.03	0.209	0.170 to 0.230	85.0	70.0 to 130	0.248	20.0
BB19352	Manganese, Total	mg/L	0.0000056	0.000147	0.100	0.0993	0.104	0.101	0.0850 to 0.115	99.3	70.0 to 130	4.62	20.0
BB19352	Iron, Total	mg/L	0.000444	0.0176	0.2	0.207	0.206	0.206	0.170 to 0.230	104	70.0 to 130	0.484	20.0
BB19352	Sodium, Total	mg/L	0.00156	0.0660	5.00	5.10	5.05	5.10	4.25 to 5.75	102	70.0 to 130	0.985	20.0
BB19352	Potassium, Total	mg/L	-0.00558	0.367	10.0	9.97	10.2	10.0	8.50 to 11.5	99.7	70.0 to 130	2.28	20.0
BB19352	Barium, Total	mg/L	-0.0000330	0.000200	0.100	0.0942	0.0968	0.0960	0.0850 to 0.115	94.2	70.0 to 130	2.72	20.0
BB19352	Mercury, Total by CVAA	mg/L	-1.000E-05	0.000500	0.004	0.004	0.00402	0.00402	0.00340 to 0.00460	100	70.0 to 130	0.499	20.0
BB19352	Lithium, Total	mg/L	2.830E-05	0.0154	0.200	0.203	0.203	0.204	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BB19352	Chromium, Total	mg/L	0.0000704	0.000440	0.100	0.100	0.101	0.0980	0.0850 to 0.115	99.7	70.0 to 130	0.995	20.0
BB19352	Arsenic, Total	mg/L	-0.0000077	0.000147	0.100	0.0989	0.101	0.0991	0.0850 to 0.115	98.9	70.0 to 130	2.10	20.0
BB19352	Cobalt, Total	mg/L	0.0000047	0.000147	0.100	0.0996	0.103	0.0996	0.0850 to 0.115	99.6	70.0 to 130	3.36	20.0
BB19352	Molybdenum, Total	mg/L	0.0000313	0.000147	0.100	0.0953	0.0970	0.0952	0.0850 to 0.115	95.3	70.0 to 130	1.77	20.0
BB19352	Calcium, Total	mg/L	0.00577	0.152	5.00	5.18	5.16	5.17	4.25 to 5.75	104	70.0 to 130	0.387	20.0
BB19352	Boron, Total	mg/L	0.00130	0.0650	1.00	1.02	1.02	1.03	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BB19352	Beryllium, Total	mg/L	0.0000260	0.000880	0.100	0.0915	0.0892	0.0913	0.0850 to 0.115	91.5	70.0 to 130	2.55	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: WMWBARPU
Sample Date: 10/19/21 09:45
Customer ID:
Delivery Date: 10/20/21 12:21

Description: Barry Pooled Upgradient - MW-1

Laboratory ID Number: BB19351

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB19352	Sulfate	mg/L	0.538	1.00	20.0	19.5	0.659	20.3	18.0 to 22.0	92.9	80.0 to 120	33.4	20.0
BB19351	Solids, Dissolved	mg/L	-1.00	25.0			40.7	54.0	40.0 to 60.0			0.867	10.0
BB19351	Alkalinity, Total as CaCO3	mg/L					1.04	49.7	45.0 to 55.0			8.00	10.0
BB19352	Fluoride	mg/L	0.0331	0.100	2.50	2.50	0.0218	2.55	2.25 to 2.75	100	80.0 to 120	0.00	20.0
BB19352	Chloride	mg/L	0.00509	1.00	10.0	9.74	0.030	9.96	9.00 to 11.0	97.4	80.0 to 120	0.00	20.0

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

Certificate Of Analysis

Description: Barry Pooled Upgradient Equipment Blank-1

Location Code: WMWBARPUEB
Collected: 10/19/21 10:15
Customer ID:
Submittal Date: 10/20/21 12:21

Laboratory ID Number: BB19352

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	10/21/21 12:00	10/22/21 13:17		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	10/21/21 12:00	10/22/21 13:17		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	10/21/21 12:00	10/22/21 13:17		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	10/21/21 12:00	10/22/21 13:17		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/21/21 12:00	10/22/21 13:17		1.015	Not Detected	mg/L	0.021315	0.406	U
* Sodium, Total	10/21/21 12:00	10/22/21 13:17		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	10/20/21 14:37	10/22/21 12:35		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/20/21 14:37	10/22/21 12:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	10/20/21 14:37	10/22/21 12:35		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Beryllium, Total	10/20/21 14:37	10/22/21 12:35		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/20/21 14:37	10/22/21 12:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/20/21 14:37	10/22/21 12:35		1.015	0.000263	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/20/21 14:37	10/22/21 12:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/20/21 14:37	10/22/21 12:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/20/21 14:37	10/22/21 12:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/20/21 14:37	10/22/21 12:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	10/20/21 14:37	10/22/21 12:35		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	10/20/21 14:37	10/22/21 12:35		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/20/21 14:37	10/22/21 12:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1			Analyst: CRB						
* Mercury, Total by CVAA	10/26/21 16:36	10/26/21 22:00		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: CNJ						
* Solids, Dissolved	10/20/21 14:37	10/25/21 12:31		1	Not Detected	mg/L		25	U
Analytical Method: SM4500CI E			Analyst: JCC						
* Chloride	10/21/21 10:23	10/21/21 10:23		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	10/21/21 12:03	10/21/21 12:03		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011			Analyst: JCC						
* Sulfate	10/26/21 14:03	10/26/21 14:03		1	0.923	mg/L	0.50	1	J

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

Comments: Precision for Sulfate is invalid due to the low sample concentration. TDS Batch#710960 does not have a precision result due to one of the QC beakers broke during analysis.

Batch QC Summary

Customer Account: WMWBARPUEB

Sample Date: 10/19/21 10:15

Customer ID:

Delivery Date: 10/20/21 12:21

Description: Barry Pooled Upgradient Equipment Blank-1

Laboratory ID Number: BB19352

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BB19352	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0960	0.0974	0.0953	0.0850 to 0.115	96.0	70.0 to 130	1.45	20.0
BB19352	Antimony, Total	mg/L	0.0000747	0.00100	0.100	0.0948	0.0945	0.0940	0.0850 to 0.115	94.8	70.0 to 130	0.317	20.0
BB19352	Chromium, Total	mg/L	0.0000704	0.000440	0.100	0.100	0.101	0.0980	0.0850 to 0.115	99.7	70.0 to 130	0.995	20.0
BB19352	Arsenic, Total	mg/L	-0.0000077	0.000147	0.100	0.0989	0.101	0.0991	0.0850 to 0.115	98.9	70.0 to 130	2.10	20.0
BB19352	Cobalt, Total	mg/L	0.0000047	0.000147	0.100	0.0996	0.103	0.0996	0.0850 to 0.115	99.6	70.0 to 130	3.36	20.0
BB19352	Molybdenum, Total	mg/L	0.0000313	0.000147	0.100	0.0953	0.0970	0.0952	0.0850 to 0.115	95.3	70.0 to 130	1.77	20.0
BB19352	Calcium, Total	mg/L	0.00577	0.152	5.00	5.18	5.16	5.17	4.25 to 5.75	104	70.0 to 130	0.387	20.0
BB19352	Boron, Total	mg/L	0.00130	0.0650	1.00	1.02	1.02	1.03	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BB19352	Beryllium, Total	mg/L	0.0000260	0.000880	0.100	0.0915	0.0892	0.0913	0.0850 to 0.115	91.5	70.0 to 130	2.55	20.0
BB19352	Lead, Total	mg/L	0.0000059	0.000147	0.100	0.101	0.0990	0.0997	0.0850 to 0.115	101	70.0 to 130	2.00	20.0
BB19352	Magnesium, Total	mg/L	0.000158	0.0462	5.00	5.25	5.25	5.25	4.25 to 5.75	105	70.0 to 130	0.00	20.0
BB19352	Selenium, Total	mg/L	0.0000102	0.00100	0.100	0.0985	0.0970	0.0987	0.0850 to 0.115	98.5	70.0 to 130	1.53	20.0
BB19352	Potassium, Total	mg/L	-0.00558	0.367	10.0	9.97	10.2	10.0	8.50 to 11.5	99.7	70.0 to 130	2.28	20.0
BB19352	Barium, Total	mg/L	-0.0000330	0.000200	0.100	0.0942	0.0968	0.0960	0.0850 to 0.115	94.2	70.0 to 130	2.72	20.0
BB19352	Mercury, Total by CVAA	mg/L	-1.000E-05	0.000500	0.004	0.004	0.00402	0.00402	0.00340 to 0.00460	100	70.0 to 130	0.499	20.0
BB19352	Lithium, Total	mg/L	2.830E-05	0.0154	0.200	0.203	0.203	0.204	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BB19352	Thallium, Total	mg/L	0.0000088	0.000147	0.100	0.0929	0.0938	0.0924	0.0850 to 0.115	92.9	70.0 to 130	0.964	20.0
BB19352	Manganese, Total	mg/L	0.0000056	0.000147	0.100	0.0993	0.104	0.101	0.0850 to 0.115	99.3	70.0 to 130	4.62	20.0
BB19352	Iron, Total	mg/L	0.000444	0.0176	0.2	0.207	0.206	0.206	0.170 to 0.230	104	70.0 to 130	0.484	20.0
BB19352	Sodium, Total	mg/L	0.00156	0.0660	5.00	5.10	5.05	5.10	4.25 to 5.75	102	70.0 to 130	0.985	20.0

Comments: Precision for Sulfate is invalid due to the low sample concentration. TDS Batch#710960 does not have a precision result due to one of the QC beakers broke during analysis.

Batch QC Summary

Customer Account: WMWBARPUEB

Sample Date: 10/19/21 10:15

Customer ID:

Delivery Date: 10/20/21 12:21

Description: Barry Pooled Upgradient Equipment Blank-1

Laboratory ID Number: BB19352

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB19352	Chloride	mg/L	0.00509	1.00	10.0	9.74	0.030	9.96	9.00 to 11.0	97.4	80.0 to 120	0.00	20.0
BB19350	Solids, Dissolved	mg/L	1.00	25.0				49.0	40.0 to 60.0				10.0
BB19352	Fluoride	mg/L	0.0331	0.100	2.50	2.50	0.0218	2.55	2.25 to 2.75	100	80.0 to 120	0.00	20.0
BB19352	Sulfate	mg/L	0.538	1.00	20.0	19.5	0.659	20.3	18.0 to 22.0	92.9	80.0 to 120	33.4	20.0

Comments: Precision for Sulfate is invalid due to the low sample concentration. TDS Batch#710960 does not have a precision result due to one of the QC beakers broke during analysis.

Definitions

Project Number: WMWBARPU_1343

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.
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: TJ Daugherty		Requested By
		Location	Barry Pooled Upgradient

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	Anions	250 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	TDS	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-4	10/18/2021	14:05	6	Groundwater		BB19346
MW-3	10/18/2021	15:33	6	Groundwater		BB19347
MW-3 Dup	10/18/2021	15:33	6	Sample Duplicate		BB19348
FB-1	10/18/2021	16:15	4	Field Blank		BB19349
MW-2	10/19/2021	08:45	6	Groundwater		BB19350
MW-1	10/19/2021	09:45	6	Groundwater		BB19351
EB-1	10/19/2021	10:15	4	Equipment Blank		BB19352

Relinquished By	Received By	Date/Time
		10/20/2021 11:46

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	4677-23342-4-1	
Sample Event	1343	
	Cooler Temp	0.2 degrees C
	Thermometer ID	5408-27568-2-2
	pH Strip ID	8440-53679-10-5

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	Barry Pooled Upgradient

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments	Rad MS/MSD collected @ MW-4
----------	-----------------------------

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-4	10/18/2021	14:05	3	Groundwater		BB19353
MW-3	10/18/2021	15:33	1	Groundwater		BB19354
MW-3 Dup	10/18/2021	15:33	1	Sample Duplicate		BB19355
FB-1	10/18/2021	16:15	1	Field Blank		BB19356
MW-2	10/19/2021	08:45	1	Groundwater		BB19357
MW-1	10/19/2021	09:45	1	Groundwater		BB19358
EB-1	10/19/2021	10:15	1	Equipment Blank		BB19359

Relinquished By	Received By	Date/Time
<i>HAB</i>	<i>Laura M. Dyer</i>	10/20/2021 11:46

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	4677-23342-4-1	
Sample Event	1343	
Cooler Temp	N/A	
Thermometer ID	N/A	
pH Strip ID	8440-53679-10-5	

Bottles/Pre-Preserved Bottles are provided by the GTL

December 15, 2021

Laura Midkiff
Alabama Power
744 Highway 87
GSC #8
Calera, AL 35040

RE: Project: BARRY UPGRADIENT WMWBARPU_1343
Pace Project No.: 92569905

Dear Laura Midkiff:

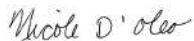
Enclosed are the analytical results for sample(s) received by the laboratory on October 26, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

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

Sincerely,



Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Brooke Caton, Alabama Power
Renee Jernigan, Alabama Power



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BARRY UPGRADE WMWBARPU_1343
Pace Project No.: 92569905

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BARRY UPGRADIENT WMWBARPU_1343

Pace Project No.: 92569905

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92569905001	BB19353 MW-4	Water	10/18/21 14:05	10/26/21 10:00
92569905002	BB19353 MW-4 MS	Water	10/18/21 14:05	10/26/21 10:00
92569905003	BB19353 MW-4 MSD	Water	10/18/21 14:05	10/26/21 10:00
92569905004	BB19354 MW-3	Water	10/18/21 15:33	10/26/21 10:00
92569905005	BB19355 MW-3 DUP	Water	10/18/21 15:33	10/26/21 10:00
92569905006	BB19356 FB-1	Water	10/18/21 16:15	10/26/21 10:00
92569905007	BB19357 MW-2	Water	10/19/21 08:45	10/26/21 10:00
92569905008	BB19358 MW-1	Water	10/19/21 09:45	10/26/21 10:00
92569905009	BB19359 EB-1	Water	10/19/21 10:15	10/26/21 10:00

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SAMPLE ANALYTE COUNT

Project: BARRY UPGRADIENT WMWBARPU_1343
Pace Project No.: 92569905

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92569905001	BB19353 MW-4	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92569905002	BB19353 MW-4 MS	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
92569905003	BB19353 MW-4 MSD	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
92569905004	BB19354 MW-3	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92569905005	BB19355 MW-3 DUP	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92569905006	BB19356 FB-1	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92569905007	BB19357 MW-2	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92569905008	BB19358 MW-1	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92569905009	BB19359 EB-1	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: BARRY UPGRADIENT WMWBARPU_1343

Pace Project No.: 92569905

Method: EPA 9315

Description: 9315 Total Radium

Client: Alabama Power

Date: December 15, 2021

General Information:

9 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:

Analyte Comments:

QC Batch: 472197

1g: The MS recovery is low and outside of default acceptance criteria for MS recovery. Results reported based on acceptable RPD on MS/MSD pair.

- BB19353 MW-4 MS (Lab ID: 92569905002)
 - Radium-226

2g: The MSD recovery is low and outside of default acceptance criteria for MS recovery. Results reported based on acceptable RPD on MS/MSD pair.

- BB19353 MW-4 MSD (Lab ID: 92569905003)
 - Radium-226

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: BARRY UPGRADIENT WMWBARPU_1343

Pace Project No.: 92569905

Method: EPA 9320

Description: 9320 Radium 228

Client: Alabama Power

Date: December 15, 2021

General Information:

9 samples were analyzed for EPA 9320 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: BARRY UPGRADIENT WMWBARPU_1343

Pace Project No.: 92569905

Method: Total Radium Calculation

Description: Total Radium 228+226

Client: Alabama Power

Date: December 15, 2021

General Information:

7 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: BARRY UPGRADIENT WMWBARPU_1343

Pace Project No.: 92569905

Sample: BB19353 MW-4 **Lab ID: 92569905001** Collected: 10/18/21 14:05 Received: 10/26/21 10:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	1.21 ± 0.490 (0.669) C:89% T:NA	pCi/L	12/08/21 09:12	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.982 ± 0.443 (0.723) C:73% T:84%	pCi/L	11/17/21 14:23	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.19 ± 0.933 (1.39)	pCi/L	12/09/21 15:18	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY UPGRADIENT WMWBARPU_1343

Pace Project No.: 92569905

Sample: BB19353 MW-4 MS **Lab ID: 92569905002** Collected: 10/18/21 14:05 Received: 10/26/21 10:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	70.94 %REC ± NA (NA) C:NA T:NA	pCi/L	12/08/21 14:45	13982-63-3	1g
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	104.94 %REC ± NA (NA) C:NA T:NA	pCi/L	11/17/21 14:23	15262-20-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY UPGRADIENT WMWBARPU_1343

Pace Project No.: 92569905

Sample: BB19353 MW-4 MSD **Lab ID: 92569905003** Collected: 10/18/21 14:05 Received: 10/26/21 10:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	72.96 %REC 2.80RPD ± NA (NA) C:NA T:NA	pCi/L	12/08/21 14:45	13982-63-3	2g
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	85.15 %REC 20.83 RPD ± NA (NA) C:NA T:NA	pCi/L	11/17/21 14:23	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY UPGRADIENT WMWBARPU_1343

Pace Project No.: 92569905

Sample: BB19354 MW-3 **Lab ID: 92569905004** Collected: 10/18/21 15:33 Received: 10/26/21 10:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	1.17 ± 0.459 (0.544) C:89% T:NA	pCi/L	12/08/21 09:14	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.579U ± 0.377 (0.705) C:70% T:86%	pCi/L	11/17/21 14:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.75 ± 0.836 (1.25)	pCi/L	12/09/21 15:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY UPGRADIENT WMWBARPU_1343

Pace Project No.: 92569905

Sample: BB19355 MW-3 DUP **Lab ID: 92569905005** Collected: 10/18/21 15:33 Received: 10/26/21 10:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.738 ± 0.359 (0.480) C:90% T:NA	pCi/L	12/08/21 09:14	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.435U ± 0.427 (0.880) C:68% T:82%	pCi/L	11/17/21 14:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.17U ± 0.786 (1.36)	pCi/L	12/09/21 15:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY UPGRADIENT WMWBARPU_1343

Pace Project No.: 92569905

Sample: BB19356 FB-1 **Lab ID: 92569905006** Collected: 10/18/21 16:15 Received: 10/26/21 10:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.177U ± 0.241 (0.511) C:79% T:NA	pCi/L	12/08/21 09:14	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.300U ± 0.382 (0.811) C:67% T:86%	pCi/L	11/17/21 14:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.477U ± 0.623 (1.32)	pCi/L	12/09/21 15:18	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY UPGRADIENT WMWBARPU_1343

Pace Project No.: 92569905

Sample: BB19357 MW-2 **Lab ID: 92569905007** Collected: 10/19/21 08:45 Received: 10/26/21 10:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	1.28 ± 0.474 (0.495) C:85% T:NA	pCi/L	12/08/21 09:14	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.570U ± 0.391 (0.739) C:69% T:83%	pCi/L	11/17/21 14:44	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.85 ± 0.865 (1.23)	pCi/L	12/09/21 15:18	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY UPGRADIENT WMWBARPU_1343

Pace Project No.: 92569905

Sample: BB19358 MW-1 **Lab ID: 92569905008** Collected: 10/19/21 09:45 Received: 10/26/21 10:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.516U ± 0.330 (0.537) C:90% T:NA	pCi/L	12/08/21 09:14	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.25 ± 0.506 (0.775) C:69% T:82%	pCi/L	11/17/21 14:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.77 ± 0.836 (1.31)	pCi/L	12/09/21 15:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY UPGRADIENT WMWBARPU_1343

Pace Project No.: 92569905

Sample: BB19359 EB-1 **Lab ID: 92569905009** Collected: 10/19/21 10:15 Received: 10/26/21 10:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.143U ± 0.321 (0.869) C:91% T:NA	pCi/L	12/08/21 09:14	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.557U ± 0.425 (0.837) C:70% T:83%	pCi/L	11/17/21 14:29	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.557U ± 0.746 (1.71)	pCi/L	12/09/21 15:18	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BARRY UPGRADIENT WMWBARPU_1343

Pace Project No.: 92569905

QC Batch: 472197

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92569905001, 92569905002, 92569905003, 92569905004, 92569905005, 92569905006, 92569905007, 92569905008, 92569905009

METHOD BLANK: 2279768

Matrix: Water

Associated Lab Samples: 92569905001, 92569905002, 92569905003, 92569905004, 92569905005, 92569905006, 92569905007, 92569905008, 92569905009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.196 ± 0.222 (0.688) C:90% T:NA	pCi/L	12/08/21 09:11	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BARRY UPGRADIENT WMWBARPU_1343

Pace Project No.: 92569905

QC Batch:	470829	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92569905001, 92569905002, 92569905003, 92569905004, 92569905005, 92569905006, 92569905007, 92569905008, 92569905009

METHOD BLANK: 2272897 Matrix: Water

Associated Lab Samples: 92569905001, 92569905002, 92569905003, 92569905004, 92569905005, 92569905006, 92569905007, 92569905008, 92569905009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.00736 ± 0.282 (0.665) C:71% T:86%	pCi/L	11/17/21 14:28	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BARRY UPGRADIENT WMWBARPU_1343

Pace Project No.: 92569905

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1g The MS recovery is low and outside of default acceptance criteria for MS recovery. Results reported based on acceptable RPD on MS/MSD pair.

2g The MSD recovery is low and outside of default acceptance criteria for MS recovery. Results reported based on acceptable RPD on MS/MSD pair.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BARRY UPGRADIENT WMWBARPU_1343
Pace Project No.: 92569905

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92569905001	BB19353 MW-4	EPA 9315	472197		
92569905002	BB19353 MW-4 MS	EPA 9315	472197		
92569905003	BB19353 MW-4 MSD	EPA 9315	472197		
92569905004	BB19354 MW-3	EPA 9315	472197		
92569905005	BB19355 MW-3 DUP	EPA 9315	472197		
92569905006	BB19356 FB-1	EPA 9315	472197		
92569905007	BB19357 MW-2	EPA 9315	472197		
92569905008	BB19358 MW-1	EPA 9315	472197		
92569905009	BB19359 EB-1	EPA 9315	472197		
92569905001	BB19353 MW-4	EPA 9320	470829		
92569905002	BB19353 MW-4 MS	EPA 9320	470829		
92569905003	BB19353 MW-4 MSD	EPA 9320	470829		
92569905004	BB19354 MW-3	EPA 9320	470829		
92569905005	BB19355 MW-3 DUP	EPA 9320	470829		
92569905006	BB19356 FB-1	EPA 9320	470829		
92569905007	BB19357 MW-2	EPA 9320	470829		
92569905008	BB19358 MW-1	EPA 9320	470829		
92569905009	BB19359 EB-1	EPA 9320	470829		
92569905001	BB19353 MW-4	Total Radium Calculation	475667		
92569905004	BB19354 MW-3	Total Radium Calculation	475667		
92569905005	BB19355 MW-3 DUP	Total Radium Calculation	475667		
92569905006	BB19356 FB-1	Total Radium Calculation	475667		
92569905007	BB19357 MW-2	Total Radium Calculation	475667		
92569905008	BB19358 MW-1	Total Radium Calculation	475667		
92569905009	BB19359 EB-1	Total Radium Calculation	475667		

REPORT OF LABORATORY ANALYSIS

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



Client Name: Alabama Power

WO#: **92569905**



Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 5320 6274 4905 11-2-21

Custody Seal on Cooler/Box Present: yes no Seals Intact: yes no

Thermometer Used _____ Type of Ice: Wet Blue None

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

Temp should be above freezing to 6°C

pH paper Lot#	Date and Initials of person examining contents: <u>Rn 11-2-21</u>
<u>1003801</u>	

Comments:

	Yes	No	N/A	
Chain of Custody Present:	/			1.
Chain of Custody Filled Out:	/			2.
Chain of Custody Relinquished:	/			3.
Sampler Name & Signature on COC:		/		4.
Sample Labels match COC:	/			5.
-Includes date/time/ID Matrix: <u>WT</u>				
Samples Arrived within Hold Time:	/			6.
Short Hold Time Analysis (<72hr remaining):		/		7.
Rush Turn Around Time Requested:		/		8.
Sufficient Volume:	/			9.
Correct Containers Used:	/			10.
-Pace Containers Used:	/			
Containers Intact:	/			11.
Orthophosphate field filtered			/	12.
Hex Cr Aqueous sample field filtered			/	13.
Organic Samples checked for dechlorination:			/	14.
Filtered volume received for Dissolved tests			/	15.
All containers have been checked for preservation.	/			16.
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix				<u>PH22</u>
All containers meet method preservation requirements.	/			Initial when completed: <u>Rn</u> Date/time of preservation
				Lot # of added preservative
Headspace in VOA Vials (>6mm):			/	17.
Trip Blank Present:			/	18.
Trip Blank Custody Seals Present			/	
Rad Samples Screened < 0.5 mrem/hr	/			Initial when completed: <u>Rn</u> Date: <u>11-2-21</u> Survey Meter SN: <u>1563</u>

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: JC2
Date: 11/18/2021
Worklist: 63442
Matrix: WT



Method Blank Assessment	
MB Sample ID	2272887
MB concentration:	-0.007
MB 2 Sigma CSU:	0.282
MB MDC:	0.665
MB Numerical Performance Indicator:	-0.05
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCSD (Y or N)?	N
Count Date:	11/17/2021	LCSD63442	LCSD63442
Spike I.D.:	21-029		
Decay Corrected Spike Concentration (pCi/mL):	37.425		
Volume Used (mL):	0.10		
Aliquot Volume (L, g, F):	0.819		
Target Conc. (pCi/L, g, F):	4.571		
Uncertainty (calculated):	0.224		
Result (pCi/L, g, F):	5.057		
LCSD/LCSD 2 Sigma CSU (pCi/L, g, F):	1.123		
Numerical Performance Indicator:	0.83		
Percent Recovery:	110.82%		
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 MDC.

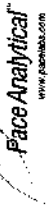
Comments:

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:	10/11/2021	92567366023	10/18/2021
Sample MS I.D.:	92567366024	92569905001	92569905002
Sample MSO I.D.:	92567366025	92569905003	92569905003
Spike I.D.:	21-029	21-029	21-029
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	37.886	37.886	37.886
Spike Volume Used in MS (mL):	0.20	0.20	0.20
MS Aliquot (L, g, F):	0.804	0.818	0.818
MS Target Conc. (pCi/L, g, F):	9.426	9.285	9.285
MSD Aliquot (L, g, F):	0.801	0.814	0.814
MSD Target Conc. (pCi/L, g, F):	9.465	9.305	9.305
MS Spike Uncertainty (calculated):	0.482	0.454	0.454
MSD Spike Uncertainty (calculated):	0.464	0.456	0.456
Sample Result:	0.113	0.982	0.982
Sample Matrix Spike Result:	0.360	0.443	0.443
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	8.485	10.705	10.705
Sample Matrix Spike Duplicate Result:	1.737	2.130	2.130
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	8.752	8.905	8.905
MS Numerical Performance Indicator:	1.778	1.832	1.832
MSD Numerical Performance Indicator:	-1.127	0.404	0.404
MS Percent Recovery:	-0.865	-1.397	-1.397
MSD Percent Recovery:	88.82%	104.94%	104.94%
MS Status vs Numerical Indicator:	Pass	Pass	Pass
MSD Status vs Numerical Indicator:	Pass	Pass	Pass
MS Status vs Recovery:	Pass	Pass	Pass
MSD Status vs Recovery:	Pass	Pass	Pass
MS/MSD Upper % Recovery Limits:	135%	135%	135%
MS/MSD Lower % Recovery Limits:	60%	60%	60%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		MS/MSD Upper % Recovery Limits:	MS/MSD Lower % Recovery Limits:
Sample I.D.:	92567366023	92569905001	92569905001
Sample MS I.D.:	92567366024	92569905002	92569905002
Sample MSO I.D.:	92567366025	92569905003	92569905003
Spike I.D.:	8.486	10.705	10.705
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.737	2.130	2.130
Sample Matrix Spike Duplicate Result:	8.752	8.905	8.905
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.778	1.832	1.832
Duplicate Numerical Performance Indicator:	-0.210	1.256	1.256
Duplicate Numerical Performance Indicator:	2.72%	20.83%	20.83%
MS/MSD Duplicate Status vs Numerical Indicator:	Pass	Pass	Pass
MS/MSD Duplicate Status vs RPD:	Pass	Pass	Pass
% RPD Limit:	36%	36%	36%

Handwritten signature

Quality Control Sample Performance Assessment



Analyst: Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: JJY
Date: 11/25/2021
Worklist: 63616
Matrix: DW

Method Blank Assessment	
MB Sample ID	2279768
MB Concentration:	-0.196
MB Counting Uncertainty:	0.220
MB MDC:	0.888
MB Numerical Performance Indicator:	-1.75
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCS#	Y or N?	N
		LCSD63616		
Count Date:	12/8/2021			
Spike I.D.:	19-033			
Decay Corrected Spike Concentration (pCi/mL):	32.437			
Volume Used (mL):	0.10			
Aliquot Volume (L, g, F):	0.212			
Target Conc. (pCi/L, g, F):	15.297			
Uncertainty (Calculated):	0.719			
Result (pCi/L, g, F):	11.969			
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.821			
Numerical Performance Indicator:	-5.94			
Percent Recovery:	78.37%			
Status vs Numerical Indicator:	N/A			
Status vs Recovery:	Pass			
Upper % Recovery Limits:	125%			
Lower % Recovery Limits:	75%			

Duplicate Sample Assessment	
Sample I.D.:	See Below ##
Duplicate Sample I.D.:	
Sample Result (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Sample Result Counting Uncertainty (pCi/L, g, F):	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	
Duplicate Numerical Performance Indicator:	
Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
Duplicate Status vs RPD:	
% RPD Limit:	

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:	10/18/2021		
Sample I.D.:	92569905001		
Sample MS ID:	92569905002		
Sample MSD I.D.:	92569905003		
Spike I.D.:	19-033		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	32.439		
Spike Volume Used in MS (mL):	0.20		
Spike Volume Used in MSD (mL):	0.20		
MS Aliquot (L, g, F):	0.202		
MS Target Conc. (pCi/L, g, F):	32.081		
MSD Aliquot (L, g, F):	0.205		
MSD Target Conc. (pCi/L, g, F):	31.665		
MS Spike Uncertainty (calculated):	1.508		
MSD Spike Uncertainty (calculated):	1.488		
Sample Result Counting Uncertainty (pCi/L, g, F):	1.206		
Sample Matrix Spike Result:	0.457		
Sample Matrix Spike Duplicate Result:	23.968		
Sample Matrix Spike Duplicate Result:	1.183		
Sample Matrix Spike Duplicate Result:	24.310		
MS Numerical Performance Indicator:	1.186		
MSD Numerical Performance Indicator:	-9.273		
MS Percent Recovery:	-8.575		
MSD Percent Recovery:	70.94%		
MS Status vs Numerical Indicator:	72.96%		
MS Status vs Recovery:	N/A		
MS/MSD Upper % Recovery Limits:	N/A		
MS/MSD Lower % Recovery Limits:	MS Low****		
	MSD Low****		
	125%		
	75%		

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	92569905001
Sample MS I.D.:	92569905002
Sample MSD I.D.:	92569905003
Sample Matrix Spike Result:	23.968
Sample Matrix Spike Duplicate Result:	1.183
Sample Matrix Spike Duplicate Result:	24.310
Sample Matrix Spike Duplicate Result:	1.186
Duplicate Numerical Performance Indicator:	-0.401
Duplicate Numerical Performance Indicator:	2.80%
MS/MSD Duplicate RPD:	N/A
MS/MSD Duplicate Status vs Numerical Indicator:	Pass
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:

****If all other QC criteria pass, this batch is acceptable. The matrix spike duplicate result indicates a possible bias for this sample only and may not be applicable to any other samples in this analytical batch.

Handwritten notes:
 RPD for MS/MSD set is acceptable, low bias may be acceptable.
 Matrix spike duplicate result is acceptable, low bias may be acceptable.
 Matrix spike duplicate result is acceptable, low bias may be acceptable.

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



Plant Barry Ash Pond

2021 Compliance Event 2

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

Truck and machine traffic was present when pumping and sampling wells MW-5V and MW-5.

Suspected iron bacteria was initially present when pumping well MW-5V.

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.

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

Analytical Report



Sample Group : WMWBARAP_1345

Project/Site : Barry Ash Pond
Bucks, AL 36512

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

Attention : Dustin Brooks & Greg Dyer

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

December 14, 2021

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory between October 27, 2021 and November 03, 2021. All results reported herein conform to the laboratory's most current Quality Assurance Manual. Results marked with an asterisk conform to the most current applicable TNI/NELAC requirements. Exceptions will be noted in the body of the report.

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

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

Sincerely,

Quality Control: **Laura Midkiff**
Digitally signed by Laura Midkiff
DN: cn=Laura Midkiff, o=Alabama Power
Company, ou=Environmental Affairs,
email=lmidkif@southernco.com, c=US
Date: 2021.12.14 14:34:15 -06'00'

Supervision: **T. Durant Maske**
Digitally signed by T. Durant Maske
DN: cn=T. Durant Maske, o=Alabama
Power Company, ou=Environmental
Affairs, email=tdmaske@southernco.com,
c=US
Date: 2021.12.14 14:59:57 -06'00'



REPORT OF LABORATORY ANALYSIS

This Certificate states the physical and/or chemical characteristics of the sample as submitted.
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Alabama Power's General Test Laboratory.



Total Metals ICP

Barry Ash Pond

WMWBARAP_1345

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>
BB19828	711712	WMWBARAP_1345
BB19829	711712	WMWBARAP_1345
BB19830	711712	WMWBARAP_1345
BB19831	711712	WMWBARAP_1345
BB19832	711712	WMWBARAP_1345
BB19833	711712	WMWBARAP_1345
BB19834	711712	WMWBARAP_1345
BB19835	711712	WMWBARAP_1345
BB19836	711712	WMWBARAP_1345
BB19837	711712	WMWBARAP_1345
BB19838	711713	WMWBARAP_1345
BB19839	711713	WMWBARAP_1345
BB19840	711713	WMWBARAP_1345
BB19841	711713	WMWBARAP_1345
BB19842	711713	WMWBARAP_1345
BB19843	711713	WMWBARAP_1345
BB19844	711713	WMWBARAP_1345
BB19845	711713	WMWBARAP_1345
BB19846	711713	WMWBARAP_1345
BB19847	711713	WMWBARAP_1345
BB19848	711714	WMWBARAP_1345
BB19849	711714	WMWBARAP_1345
BB19850	711714	WMWBARAP_1345
BB19956	711714	WMWBARAP_1345
BB19957	711714	WMWBARAP_1345
BB19958	711714	WMWBARAP_1345
BB19959	711714	WMWBARAP_1345
BB19960	711714	WMWBARAP_1345
BB19961	711714	WMWBARAP_1345
BB20254	712281	WMWBARAP_1345
BB20255	712281	WMWBARAP_1345

BB20256	712281	WMWBARAP_1345
BB20257	712281	WMWBARAP_1345
BB20258	712281	WMWBARAP_1345
BB20259	712281	WMWBARAP_1345
BB20260	712281	WMWBARAP_1345
BB20261	712281	WMWBARAP_1345
BB20262	712281	WMWBARAP_1345
BB20263	712281	WMWBARAP_1345
BB20264	712282	WMWBARAP_1345
BB20265	712282	WMWBARAP_1345
BB20266	712282	WMWBARAP_1345
BB20267	712282	WMWBARAP_1345
BB20268	712282	WMWBARAP_1345
BB20269	712282	WMWBARAP_1345
BB20270	712282	WMWBARAP_1345
BB20271	712282	WMWBARAP_1345

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:
 - BB19837, BB19847, BB19961, and BB20271 Iron MS/MSD spike levels were less than 30% of the sample concentrations.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BB19828	Iron	50.75
BB19829	Iron	50.75
BB19831	Iron	10.15
BB19832	Iron, Sodium	50.75
BB19833	Iron, Sodium	50.75
BB19834	Iron, Sodium	50.75
BB19835	Iron, Sodium	50.75
BB19837	Iron	50.75
BB19838	Sodium	50.75
BB19839	Iron, Sodium	50.75
BB19840	Iron	50.75
BB19841	Iron	50.75
BB19842	Sodium	50.75
BB19843	Iron	50.75
BB19844	Iron	50.75
BB19845	Iron, Sodium	10.15
BB19846	Iron, Sodium	50.75
BB19847	Iron	50.75
BB19848	Iron, Sodium	20.3
BB19849	Iron, Sodium	20.3
BB19956	Iron	20.3
BB19957	Calcium, Iron	50.75
BB19958	Calcium, Iron	50.75
BB19959	Iron	10.15

Case Narrative

BB19960	Iron	10.15
BB19961	Iron, Sodium	10.15
BB20254	Sodium	10.15
BB20255	Iron	101.5
BB20256	Iron	101.5
BB20262	Iron	101.5
BB20264	Iron	101.5
BB20265	Iron, Sodium	20.3
BB20266	Iron, Sodium	20.3
BB20267	Iron	101.5
BB20271	Iron, Sodium	20.3

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

Dissolved Metals ICP

Barry Ash Pond

WMWBARAP_1345

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>
BB19828	711685	WMWBARAP_1345
BB19829	711685	WMWBARAP_1345
BB19831	711685	WMWBARAP_1345
BB19832	711685	WMWBARAP_1345
BB19833	711685	WMWBARAP_1345
BB19834	711685	WMWBARAP_1345
BB19835	711685	WMWBARAP_1345
BB19837	711685	WMWBARAP_1345
BB19838	711685	WMWBARAP_1345
BB19839	711685	WMWBARAP_1345
BB19840	711686	WMWBARAP_1345
BB19841	711686	WMWBARAP_1345
BB19842	711686	WMWBARAP_1345
BB19843	711686	WMWBARAP_1345
BB19844	711686	WMWBARAP_1345
BB19845	711686	WMWBARAP_1345
BB19846	711686	WMWBARAP_1345
BB19847	711686	WMWBARAP_1345
BB19848	711686	WMWBARAP_1345
BB19849	711686	WMWBARAP_1345
BB19956	711687	WMWBARAP_1345
BB19957	711687	WMWBARAP_1345
BB19958	711687	WMWBARAP_1345
BB19959	711687	WMWBARAP_1345
BB19960	711687	WMWBARAP_1345
BB19961	711687	WMWBARAP_1345
BB20254	712263	WMWBARAP_1345
BB20255	712263	WMWBARAP_1345
BB20256	712263	WMWBARAP_1345
BB20258	712263	WMWBARAP_1345
BB20259	712263	WMWBARAP_1345

BB20260	712263	WMWBARAP_1345
BB20261	712263	WMWBARAP_1345
BB20262	712263	WMWBARAP_1345
BB20263	712263	WMWBARAP_1345
BB20264	712263	WMWBARAP_1345
BB20265	712264	WMWBARAP_1345
BB20266	712264	WMWBARAP_1345
BB20267	712264	WMWBARAP_1345
BB20268	712264	WMWBARAP_1345
BB20269	712264	WMWBARAP_1345
BB20271	712264	WMWBARAP_1345

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:
 - BB19839, BB19849, BB19961, BB20264, and BB20271 Iron MS/MSD spike levels were less than 30% of the sample concentrations.
 - A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BB19828	Iron	50.75
BB19829	Iron	50.75
BB19831	Iron	10.15
BB19832	Iron	50.75
BB19833	Iron	50.75
BB19834	Iron	50.75
BB19835	Iron	50.75
BB19837	Iron	50.75
BB19839	Iron	50.75
BB19840	Iron	50.75
BB19841	Iron	50.75
BB19843	Iron	50.75
BB19844	Iron	50.75
BB19845	Iron	10.15
BB19846	Iron	50.75
BB19847	Iron	50.75
BB19848	Iron	10.15
BB19849	Iron	10.15
BB19956	Iron	50.75
BB19957	Iron	50.75
BB19958	Iron	50.75
BB19959	Iron	10.15
BB19960	Iron	10.15
BB19961	Iron	10.15

Case Narrative

BB20255	Iron	101.5
BB20256	Iron	101.5
BB20262	Iron	101.5
BB20264	Iron	101.5
BB20265	Iron	101.5
BB20266	Iron	101.5
BB20267	Iron	101.5
BB20271	Iron	101.5

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

Total Metals ICPMS

Barry Ash Pond

WMWBARAP_1345

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>
BB19828	711888	WMWBARAP_1345
BB19829	711888	WMWBARAP_1345
BB19830	711888	WMWBARAP_1345
BB19831	711888	WMWBARAP_1345
BB19832	711888	WMWBARAP_1345
BB19833	711888	WMWBARAP_1345
BB19834	711888	WMWBARAP_1345
BB19835	711888	WMWBARAP_1345
BB19836	711888	WMWBARAP_1345
BB19837	711888	WMWBARAP_1345
BB19838	711889	WMWBARAP_1345
BB19839	711889	WMWBARAP_1345
BB19840	711889	WMWBARAP_1345
BB19841	711889	WMWBARAP_1345
BB19842	711889	WMWBARAP_1345
BB19843	711889	WMWBARAP_1345
BB19844	711889	WMWBARAP_1345
BB19845	711889	WMWBARAP_1345
BB19846	711889	WMWBARAP_1345
BB19847	711889	WMWBARAP_1345
BB19848	711890	WMWBARAP_1345
BB19849	711890	WMWBARAP_1345
BB19850	711890	WMWBARAP_1345
BB19956	711890	WMWBARAP_1345
BB19957	711890	WMWBARAP_1345
BB19958	711890	WMWBARAP_1345
BB19959	711890	WMWBARAP_1345
BB19960	711890	WMWBARAP_1345
BB19961	711890	WMWBARAP_1345
BB20254	712347	WMWBARAP_1345
BB20255	712347	WMWBARAP_1345

BB20256	712347	WMWBARAP_1345
BB20257	712347	WMWBARAP_1345
BB20258	712347	WMWBARAP_1345
BB20259	712347	WMWBARAP_1345
BB20260	712347	WMWBARAP_1345
BB20261	712347	WMWBARAP_1345
BB20262	712347	WMWBARAP_1345
BB20263	712347	WMWBARAP_1345
BB20264	712348	WMWBARAP_1345
BB20265	712348	WMWBARAP_1345
BB20266	712348	WMWBARAP_1345
BB20267	712348	WMWBARAP_1345
BB20268	712348	WMWBARAP_1345
BB20269	712348	WMWBARAP_1345
BB20270	712348	WMWBARAP_1345
BB20271	712348	WMWBARAP_1345

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.
 - 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>
BB19828	Manganese	5.075
BB19829	Manganese	5.075
BB19843	Manganese	5.075
BB19856	Manganese	5.075
BB19958	Manganese	5.075
BB20266	Manganese	5.075

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

Dissolved Metals ICPMS

Barry Ash Pond

WMWBARAP_1345

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>
BB19828	711806	WMWBARAP_1345
BB19829	711806	WMWBARAP_1345
BB19831	711806	WMWBARAP_1345
BB19832	711806	WMWBARAP_1345
BB19833	711806	WMWBARAP_1345
BB19834	711806	WMWBARAP_1345
BB19835	711806	WMWBARAP_1345
BB19837	711806	WMWBARAP_1345
BB19838	711806	WMWBARAP_1345
BB19839	711806	WMWBARAP_1345
BB19840	711807	WMWBARAP_1345
BB19841	711807	WMWBARAP_1345
BB19842	711807	WMWBARAP_1345
BB19843	711807	WMWBARAP_1345
BB19844	711807	WMWBARAP_1345
BB19845	711807	WMWBARAP_1345
BB19846	711807	WMWBARAP_1345
BB19847	711807	WMWBARAP_1345
BB19848	711807	WMWBARAP_1345
BB19849	711807	WMWBARAP_1345
BB19956	711808	WMWBARAP_1345
BB19957	711808	WMWBARAP_1345
BB19958	711808	WMWBARAP_1345
BB19959	711808	WMWBARAP_1345
BB19960	711808	WMWBARAP_1345
BB19961	711808	WMWBARAP_1345
BB20254	712310	WMWBARAP_1345
BB20255	712310	WMWBARAP_1345
BB20256	712310	WMWBARAP_1345
BB20258	712310	WMWBARAP_1345
BB20259	712310	WMWBARAP_1345

BB20260	712310	WMWBARAP_1345
BB20261	712310	WMWBARAP_1345
BB20262	712310	WMWBARAP_1345
BB20263	712310	WMWBARAP_1345
BB20264	712310	WMWBARAP_1345
BB20265	712311	WMWBARAP_1345
BB20266	712311	WMWBARAP_1345
BB20267	712311	WMWBARAP_1345
BB20268	712311	WMWBARAP_1345
BB20269	712311	WMWBARAP_1345
BB20271	712311	WMWBARAP_1345

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:
 - BB19839, BB19849, and BB20264 Manganese MS/MSD spike levels were less than 30% of the sample concentrations.
 - A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BB19829	Manganese	5.075
BB19843	Manganese	5.075
BB19956	Manganese	5.075
BB19958	Manganese	5.075
BB20266	Manganese	5.075

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

Mercury

Barry Ash Pond

WMWBARAP_1345

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>
BB19828	711560	WMWBARAP_1345
BB19829	711560	WMWBARAP_1345
BB19830	711560	WMWBARAP_1345
BB19831	711560	WMWBARAP_1345
BB19832	711560	WMWBARAP_1345
BB19833	711560	WMWBARAP_1345
BB19834	711560	WMWBARAP_1345
BB19835	711560	WMWBARAP_1345
BB19836	711560	WMWBARAP_1345
BB19837	711560	WMWBARAP_1345
BB19838	711561	WMWBARAP_1345
BB19839	711561	WMWBARAP_1345
BB19840	711561	WMWBARAP_1345
BB19841	711561	WMWBARAP_1345
BB19842	711561	WMWBARAP_1345
BB19843	711561	WMWBARAP_1345
BB19844	711561	WMWBARAP_1345
BB19845	711561	WMWBARAP_1345
BB19846	711561	WMWBARAP_1345
BB19847	711561	WMWBARAP_1345
BB19848	712007	WMWBARAP_1345
BB19849	712007	WMWBARAP_1345
BB19850	712007	WMWBARAP_1345
BB19956	712007	WMWBARAP_1345
BB19957	712007	WMWBARAP_1345
BB19958	712007	WMWBARAP_1345
BB19959	712007	WMWBARAP_1345
BB19960	712007	WMWBARAP_1345
BB19961	712007	WMWBARAP_1345
BB20254	712314	WMWBARAP_1345
BB20255	712314	WMWBARAP_1345

BB20256	712314	WMWBARAP_1345
BB20257	712314	WMWBARAP_1345
BB20258	712314	WMWBARAP_1345
BB20259	712314	WMWBARAP_1345
BB20260	712314	WMWBARAP_1345
BB20261	712314	WMWBARAP_1345
BB20262	712314	WMWBARAP_1345
BB20263	712314	WMWBARAP_1345
BB20264	712315	WMWBARAP_1345
BB20265	712315	WMWBARAP_1345
BB20266	712315	WMWBARAP_1345
BB20267	712315	WMWBARAP_1345
BB20268	712315	WMWBARAP_1345
BB20269	712315	WMWBARAP_1345
BB20270	712315	WMWBARAP_1345
BB20271	712315	WMWBARAP_1345

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.

TDS

Barry Ash Pond

WMWBARAP_1345

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>
BB19828	711586	WMWBARAP_1345
BB19829	711586	WMWBARAP_1345
BB19830	711586	WMWBARAP_1345
BB19831	711587	WMWBARAP_1345
BB19832	711587	WMWBARAP_1345
BB19833	711587	WMWBARAP_1345
BB19834	711587	WMWBARAP_1345
BB19835	711680	WMWBARAP_1345
BB19836	711680	WMWBARAP_1345
BB19837	711680	WMWBARAP_1345
BB19838	711680	WMWBARAP_1345
BB19839	711680	WMWBARAP_1345
BB19840	711587	WMWBARAP_1345
BB19841	711587	WMWBARAP_1345
BB19842	711587	WMWBARAP_1345
BB19843	711587	WMWBARAP_1345
BB19844	711587	WMWBARAP_1345
BB19845	711587	WMWBARAP_1345
BB19846	711680	WMWBARAP_1345
BB19847	711680	WMWBARAP_1345
BB19848	711680	WMWBARAP_1345
BB19849	711680	WMWBARAP_1345
BB19850	711680	WMWBARAP_1345
BB19956	711681	WMWBARAP_1345
BB19957	711681	WMWBARAP_1345
BB19958	711681	WMWBARAP_1345
BB19959	711681	WMWBARAP_1345
BB19960	711681	WMWBARAP_1345
BB19961	711681	WMWBARAP_1345
BB20254	712089	WMWBARAP_1345
BB20255	712089	WMWBARAP_1345

BB20256	712089	WMWBARAP_1345
BB20257	712089	WMWBARAP_1345
BB20258	712089	WMWBARAP_1345
BB20259	712089	WMWBARAP_1345
BB20260	712089	WMWBARAP_1345
BB20261	712089	WMWBARAP_1345
BB20262	712089	WMWBARAP_1345
BB20263	712089	WMWBARAP_1345
BB20264	712090	WMWBARAP_1345
BB20265	712090	WMWBARAP_1345
BB20266	712090	WMWBARAP_1345
BB20267	712090	WMWBARAP_1345
BB20268	712090	WMWBARAP_1345
BB20269	712349	WMWBARAP_1345
BB20270	712349	WMWBARAP_1345
BB20271	712349	WMWBARAP_1345

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

General Quality Control Procedures:

- A Method Blank was analyzed with each batch. All criteria were met.
- All final weights of samples, standards, and blanks agreed within 0.5mg of the previous weight.
- A sample duplicate was analyzed with each batch. RPD/2 was less than 5%.
- A laboratory control sample was analyzed with each batch. All criteria were met.
- Samples were between 2.5mg and 200mg residue.
- All samples with residue <2.5mg had the maximum volume of 150mL filtered. Affected samples are as follows:
 - BB19830
 - BB19836
 - BB19850
 - BB20257
 - BB20270

Anions

Barry Ash Pond

WMWBARAP_1345

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>
BB19828	711939, 712026, & 711599	WMWBARAP_1345
BB19829	711939, 712026, & 711599	WMWBARAP_1345
BB19830	711939, 712026, & 711599	WMWBARAP_1345
BB19831	711939, 712026, & 711599	WMWBARAP_1345
BB19832	711939, 712026, & 711599	WMWBARAP_1345
BB19833	711939, 712026, & 711599	WMWBARAP_1345
BB19834	711939, 712026, & 711599	WMWBARAP_1345
BB19835	711939, 712026, & 711599	WMWBARAP_1345
BB19836	711939, 712026, & 711599	WMWBARAP_1345
BB19837	711939, 712026, & 711599	WMWBARAP_1345
BB19838	711940, 712027, & 711600	WMWBARAP_1345
BB19839	711940, 712027, & 711600	WMWBARAP_1345
BB19840	711940, 712027, & 711600	WMWBARAP_1345
BB19841	711940, 712027, & 711600	WMWBARAP_1345
BB19842	711940, 712027, & 711600	WMWBARAP_1345
BB19843	711940, 712027, & 711600	WMWBARAP_1345
BB19844	711940, 712027, & 711600	WMWBARAP_1345
BB19845	711940, 712027, & 711600	WMWBARAP_1345
BB19846	711940, 712027, & 711600	WMWBARAP_1345
BB19847	711940, 712027, & 711600	WMWBARAP_1345
BB19848	711941, 712028, & 711601	WMWBARAP_1345
BB19849	711941, 712028, & 711601	WMWBARAP_1345
BB19850	711941, 712028, & 711601	WMWBARAP_1345
BB19956	711941, 712028, & 712476	WMWBARAP_1345
BB19957	711941, 712028, & 712476	WMWBARAP_1345
BB19958	711941, 712028, & 712476	WMWBARAP_1345
BB19959	711941, 712028, & 712476	WMWBARAP_1345
BB19960	711941, 712028, & 712476	WMWBARAP_1345
BB19961	711941, 712028, & 712476	WMWBARAP_1345
BB20254	712317, 712319, & 712476	WMWBARAP_1345
BB20255	712317, 712319, & 712476	WMWBARAP_1345

BB20256	712317, 712319, & 712476	WMWBARAP_1345
BB20257	712317, 712319, & 712476	WMWBARAP_1345
BB20258	712317, 712319, & 712477	WMWBARAP_1345
BB20259	712317, 712319, & 712477	WMWBARAP_1345
BB20260	712317, 712319, & 712477	WMWBARAP_1345
BB20261	712317, 712319, & 712477	WMWBARAP_1345
BB20262	712317, 712319, & 712477	WMWBARAP_1345
BB20263	712317, 712319, & 712477	WMWBARAP_1345
BB20264	712318, 712320, & 712477	WMWBARAP_1345
BB20265	712318, 712320, & 712477	WMWBARAP_1345
BB20266	712318, 712320, & 712477	WMWBARAP_1345
BB20267	712318, 712320, & 712477	WMWBARAP_1345
BB20268	712318, 712320, & 712478	WMWBARAP_1345
BB20269	712318, 712320, & 712478	WMWBARAP_1345
BB20270	712318, 712320, & 712478	WMWBARAP_1345
BB20271	712318, 712320, & 712478	WMWBARAP_1345

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

General Quality Control Procedures:

- All calibration met criteria for the requested analyte.
- Prior to sample analysis, an initial calibration verification (ICV), and all criteria were met.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

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

- A matrix spike was analyzed with each batch. Acceptance criteria for accuracy were met, except for the following:
 - BB19837 Matrix Spike Recovery for Sulfate was outside of the specification limit.
 - BB20271 Matrix Spike Recovery for Sulfate was outside of the specification limit.
 - A sample duplicate was analyzed with each batch. Acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BB19828	Chloride & Sulfate	2 & 2
BB19829	Chloride & Sulfate	2 & 2
BB19832	Chloride & Sulfate	5 & 2
BB19833	Chloride & Sulfate	8 & 4
BB19834	Chloride	16
BB19835	Chloride	16
BB19838	Chloride	10
BB19839	Chloride & Sulfate	8 & 2
BB19842	Chloride	10
BB19843	Chloride	2
BB19844	Chloride & Sulfate	2 & 2
BB19845	Chloride	8
BB19846	Chloride & Sulfate	8 & 4
BB19847	Chloride	10
BB19848	Chloride & Sulfate	16 & 2
BB19849	Chloride	5
BB19957	Chloride	2
BB19958	Chloride	2
BB19961	Chloride & Sulfate	8 & 4
BB20254	Chloride	8
BB20255	Chloride	2
BB20256	Chloride	2
BB20261	Chloride	2
BB20262	Chloride	2
BB20264	Chloride	2
BB20265	Chloride	2
BB20266	Chloride	2
BB20267	Chloride	2
BB20271	Chloride & Sulfate	4 & 8

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

Alkalinity

Barry Ash Pond

WMWBARAP_1345

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>
BB19828	712127 & 712128	WMWBARAP_1345
BB19829	712127 & 712128	WMWBARAP_1345
BB19831	712127 & 712128	WMWBARAP_1345
BB19832	712127 & 712128	WMWBARAP_1345
BB19833	712127 & 712128	WMWBARAP_1345
BB19834	712127 & 712128	WMWBARAP_1345
BB19835	712127 & 712128	WMWBARAP_1345
BB19837	712127 & 712128	WMWBARAP_1345
BB19838	712127 & 712128	WMWBARAP_1345
BB19839	712127 & 712128	WMWBARAP_1345
BB19840	712127 & 712128	WMWBARAP_1345
BB19841	712127 & 712128	WMWBARAP_1345
BB19842	712127 & 712128	WMWBARAP_1345
BB19843	712127 & 712128	WMWBARAP_1345
BB19844	712127 & 712128	WMWBARAP_1345
BB19845	712127 & 712128	WMWBARAP_1345
BB19846	712127 & 712128	WMWBARAP_1345
BB19847	712127 & 712128	WMWBARAP_1345
BB19848	712127 & 712128	WMWBARAP_1345
BB19849	712127 & 712128	WMWBARAP_1345
BB19956	712519 & 712520	WMWBARAP_1345
BB19957	712519 & 712520	WMWBARAP_1345
BB19958	712519 & 712520	WMWBARAP_1345
BB19959	712519 & 712520	WMWBARAP_1345
BB19960	712519 & 712520	WMWBARAP_1345
BB19961	712519 & 712520	WMWBARAP_1345
BB20254	712519 & 712520	WMWBARAP_1345
BB20255	712519 & 712520	WMWBARAP_1345
BB20256	712519 & 712520	WMWBARAP_1345
BB20258	712519 & 712520	WMWBARAP_1345
BB20259	712519 & 712520	WMWBARAP_1345

BB20260	712519 & 712520	WMWBARAP_1345
BB20261	712519 & 712520	WMWBARAP_1345
BB20262	712519 & 712520	WMWBARAP_1345
BB20263	712519 & 712520	WMWBARAP_1345
BB20264	712519 & 712520	WMWBARAP_1345
BB20265	712519 & 712520	WMWBARAP_1345
BB20266	712519 & 712520	WMWBARAP_1345
BB20267	712519 & 712520	WMWBARAP_1345
BB20268	712519 & 712520	WMWBARAP_1345
BB20269	712815 & 712816	WMWBARAP_1345
BB20271	712815 & 712816	WMWBARAP_1345

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.

Certificate Of Analysis

Description: Barry Ash Pond - MW-18H

Location Code: WMWBARAP
Collected: 10/25/21 14:38
Customer ID:
Submittal Date: 10/27/21 16:26

Laboratory ID Number: BB19828

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	11/1/21 08:14	11/2/21 10:11		1.015	0.934	mg/L	0.030000	0.1015	
* Calcium, Total	11/1/21 08:14	11/2/21 10:11		1.015	26.9	mg/L	0.070035	0.406	
* Iron, Total	11/1/21 08:14	11/2/21 12:40		50.75	84.5	mg/L	0.40600	2.03	
* Lithium, Total	11/1/21 08:14	11/2/21 10:11		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/1/21 08:14	11/2/21 10:11		1.015	10.6	mg/L	0.021315	0.406	
* Sodium, Total	11/1/21 08:14	11/2/21 10:11		1.015	17.5	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	11/1/21 08:38	11/3/21 09:44		50.75	82.5	mg/L	0.40600	2.03	
Analytical Method: EPA 200.8		Analyst: ABB			Preparation Method: EPA 1638				
* Antimony, Total	10/29/21 07:26	10/29/21 15:31		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/29/21 07:26	10/29/21 15:31		1.015	0.0156	mg/L	0.000068	0.000203	
* Barium, Total	10/29/21 07:26	10/29/21 15:31		1.015	0.120	mg/L	0.000102	0.000203	
* Beryllium, Total	10/29/21 07:26	10/29/21 15:31		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/29/21 07:26	10/29/21 15:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/29/21 07:26	10/29/21 15:31		1.015	0.00134	mg/L	0.000203	0.001015	
* Cobalt, Total	10/29/21 07:26	10/29/21 15:31		1.015	0.00101	mg/L	0.000068	0.000203	
* Lead, Total	10/29/21 07:26	10/29/21 15:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/29/21 07:26	10/29/21 15:31		1.015	0.000249	mg/L	0.000068	0.000203	
* Potassium, Total	10/29/21 07:26	10/29/21 15:31		1.015	1.29	mg/L	0.169505	0.5075	
* Manganese, Total	10/29/21 07:26	10/29/21 18:15		5.075	1.29	mg/L	0.000340	0.001015	
* Selenium, Total	10/29/21 07:26	10/29/21 15:31		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/29/21 07:26	10/29/21 15:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	10/28/21 14:52	10/28/21 15:41		1.015	1.27	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	10/28/21 11:06	10/28/21 15:50		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	11/3/21 14:04	11/3/21 15:27		1	214	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/28/21 10:30	10/29/21 13:10		1	302	mg/L		25	

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

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-18H

Location Code: WMWBARAP
Collected: 10/25/21 14:38
Customer ID:
Submittal Date: 10/27/21 16:26

Laboratory ID Number: BB19828

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	11/3/21 14:04	11/3/21 15:27		1	214	mg/L			
Carbonate Alkalinity, (calc.)	11/3/21 14:04	11/3/21 15:27		1	0.06	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	11/2/21 10:51	11/2/21 10:51		2	20.5	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/3/21 10:44	11/3/21 10:44		1	0.110	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/28/21 10:54	10/28/21 10:54		2	55.0	mg/L	1.00	2	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	10/25/21 14:34	10/25/21 14:34			508.75	uS/cm			FA
pH	10/25/21 14:34	10/25/21 14:34			6.76	SU			FA
Temperature	10/25/21 14:34	10/25/21 14:34			20.96	C			FA
Turbidity	10/25/21 14:34	10/25/21 14:34			4.13	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/25/21 14:38
Customer ID:
Delivery Date: 10/27/21 16:26

Description: Barry Ash Pond - MW-18H

Laboratory ID Number: BB19828

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB19837	Cadmium, Total	mg/L	0.000004	0.000147	0.100	0.0986	0.105	0.100	0.0850 to 0.115	98.6	70.0 to 130	6.29	20.0
BB19837	Beryllium, Total	mg/L	0.0000188	0.000880	0.100	0.0997	0.102	0.100	0.0850 to 0.115	99.7	70.0 to 130	2.28	20.0
BB19839	Manganese, Dissolved	mg/L	0.0000140	0.000147	0.100	0.852	0.841	0.103	0.0850 to 0.115	56.0	70.0 to 130	1.30	20.0
BB19837	Sodium, Total	mg/L	0.00187	0.0660	5.00	27.1	27.1	5.08	4.25 to 5.75	110	70.0 to 130	0.00	20.0
BB19837	Manganese, Total	mg/L	0.0000162	0.000147	0.100	1.26	1.28	0.104	0.0850 to 0.115	90.0	70.0 to 130	1.57	20.0
BB19837	Lead, Total	mg/L	0.0000023	0.000147	0.100	0.104	0.112	0.103	0.0850 to 0.115	104	70.0 to 130	7.41	20.0
BB19837	Boron, Total	mg/L	0.000691	0.0650	1.00	1.09	1.08	1.02	0.850 to 1.15	102	70.0 to 130	0.922	20.0
BB19837	Potassium, Total	mg/L	0.0260	0.367	10.0	11.0	10.9	9.89	8.50 to 11.5	98.1	70.0 to 130	0.913	20.0
BB19837	Mercury, Total by CVAA	mg/L	-2.000E-05	0.000500	0.004	0.00393	0.00395	0.00391	0.00340 to 0.00460	98.2	70.0 to 130	0.508	20.0
BB19837	Lithium, Total	mg/L	-2.980E-06	0.0154	0.200	0.210	0.208	0.197	0.170 to 0.230	105	70.0 to 130	0.957	20.0
BB19837	Cobalt, Total	mg/L	0.0000032	0.000147	0.100	0.108	0.108	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BB19837	Arsenic, Total	mg/L	0.0000075	0.000147	0.100	0.114	0.115	0.105	0.0850 to 0.115	106	70.0 to 130	0.873	20.0
BB19837	Selenium, Total	mg/L	0.000055	0.00100	0.100	0.106	0.110	0.103	0.0850 to 0.115	106	70.0 to 130	3.70	20.0
BB19837	Molybdenum, Total	mg/L	0.0000158	0.000147	0.100	0.104	0.109	0.101	0.0850 to 0.115	104	70.0 to 130	4.69	20.0
BB19837	Calcium, Total	mg/L	0.00195	0.152	5.00	34.5	34.3	5.09	4.25 to 5.75	102	70.0 to 130	0.581	20.0
BB19837	Iron, Total	mg/L	8.480E-05	0.0176	0.2	71.5	70.5	0.205	0.170 to 0.230	100	70.0 to 130	1.41	20.0
BB19837	Antimony, Total	mg/L	0.000130	0.00100	0.100	0.101	0.103	0.0934	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BB19837	Chromium, Total	mg/L	-0.0000132	0.000440	0.100	0.0988	0.100	0.100	0.0850 to 0.115	98.1	70.0 to 130	1.21	20.0
BB19839	Iron, Dissolved	mg/L	5.970E-05	0.0176	0.2	45.8	47.6	0.202	0.170 to 0.230	-900	70.0 to 130	3.85	20.0
BB19837	Barium, Total	mg/L	0.0000134	0.000200	0.100	0.312	0.313	0.0991	0.0850 to 0.115	124	70.0 to 130	0.320	20.0
BB19837	Magnesium, Total	mg/L	-5.630E-05	0.0462	5.00	13.0	12.9	5.11	4.25 to 5.75	103	70.0 to 130	0.772	20.0
BB19837	Thallium, Total	mg/L	0.0000098	0.000147	0.100	0.0957	0.102	0.0963	0.0850 to 0.115	95.7	70.0 to 130	6.37	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: WMWBARAP
Sample Date: 10/25/21 14:38
Customer ID:
Delivery Date: 10/27/21 16:26

Description: Barry Ash Pond - MW-18H

Laboratory ID Number: BB19828

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB19837	Chloride	mg/L	0.0107	1.00	12.5	18.3	5.63	10.1	9.00 to 11.0	101	80.0 to 120	0.177	20.0
BB19829	Solids, Dissolved	mg/L	0.0000	25.0			303	45.0	40.0 to 60.0			0.980	10.0
BB19837	Sulfate	mg/L	-0.148	1.00	20.0	44.9	29.3	21.1	18.0 to 22.0	77.0	80.0 to 120	0.680	20.0
BB19849	Alkalinity, Total as CaCO3	mg/L					152	48.5	45.0 to 55.0			0.660	10.0
BB19837	Fluoride	mg/L	-0.00421	0.100	2.50	2.63	0.0669	2.52	2.25 to 2.75	102	80.0 to 120	5.81	20.0

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-18H DUP

Location Code: WMWBARAP
Collected: 10/25/21 14:38
Customer ID:
Submittal Date: 10/27/21 16:26

Laboratory ID Number: BB19829

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA		Preparation Method: EPA 1638					
* Boron, Total	11/1/21 08:14	11/2/21 10:15		1.015	0.931	mg/L	0.030000	0.1015	
* Calcium, Total	11/1/21 08:14	11/2/21 10:15		1.015	27.1	mg/L	0.070035	0.406	
* Iron, Total	11/1/21 08:14	11/2/21 12:43		50.75	84.1	mg/L	0.40600	2.03	
* Lithium, Total	11/1/21 08:14	11/2/21 10:15		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/1/21 08:14	11/2/21 10:15		1.015	10.7	mg/L	0.021315	0.406	
* Sodium, Total	11/1/21 08:14	11/2/21 10:15		1.015	17.4	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	11/1/21 08:38	11/3/21 09:48		50.75	82.9	mg/L	0.40600	2.03	
Analytical Method: EPA 200.8		Analyst: ABB		Preparation Method: EPA 1638					
* Antimony, Total	10/29/21 07:26	10/29/21 15:34		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/29/21 07:26	10/29/21 15:34		1.015	0.0155	mg/L	0.000068	0.000203	
* Barium, Total	10/29/21 07:26	10/29/21 15:34		1.015	0.122	mg/L	0.000102	0.000203	
* Beryllium, Total	10/29/21 07:26	10/29/21 15:34		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/29/21 07:26	10/29/21 15:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/29/21 07:26	10/29/21 15:34		1.015	0.00135	mg/L	0.000203	0.001015	
* Cobalt, Total	10/29/21 07:26	10/29/21 15:34		1.015	0.00103	mg/L	0.000068	0.000203	
* Lead, Total	10/29/21 07:26	10/29/21 15:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/29/21 07:26	10/29/21 15:34		1.015	0.000239	mg/L	0.000068	0.000203	
* Potassium, Total	10/29/21 07:26	10/29/21 15:34		1.015	1.35	mg/L	0.169505	0.5075	
* Manganese, Total	10/29/21 07:26	10/29/21 18:19		5.075	1.37	mg/L	0.000340	0.001015	
* Selenium, Total	10/29/21 07:26	10/29/21 15:34		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/29/21 07:26	10/29/21 15:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	10/28/21 14:52	10/29/21 12:48		5.075	1.23	mg/L	0.000340	0.001015	
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	10/28/21 11:06	10/28/21 15:54		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	11/3/21 14:04	11/3/21 15:27		1	232	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/28/21 10:30	10/29/21 13:10		1	309	mg/L		25	

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

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-18H DUP

Location Code: WMWBARAP
Collected: 10/25/21 14:38
Customer ID:
Submittal Date: 10/27/21 16:26

Laboratory ID Number: BB19829

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	11/3/21 14:04	11/3/21 15:27		1	232	mg/L			
Carbonate Alkalinity, (calc.)	11/3/21 14:04	11/3/21 15:27		1	0.07	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	11/2/21 10:52	11/2/21 10:52		2	20.2	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/3/21 10:45	11/3/21 10:45		1	0.0728	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/28/21 10:55	10/28/21 10:55		2	66.8	mg/L	1.00	2	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	10/25/21 14:34	10/25/21 14:34			508.75	uS/cm			FA
pH	10/25/21 14:34	10/25/21 14:34			6.76	SU			FA
Temperature	10/25/21 14:34	10/25/21 14:34			20.96	C			FA
Turbidity	10/25/21 14:34	10/25/21 14:34			4.13	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/25/21 14:38
Customer ID:
Delivery Date: 10/27/21 16:26

Description: Barry Ash Pond - MW-18H DUP

Laboratory ID Number: BB19829

Sample	Analysis	Units	MB					Standard		Rec			Prec Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BB19837	Magnesium, Total	mg/L	-5.630E-05	0.0462	5.00	13.0	12.9	5.11	4.25 to 5.75	103	70.0 to 130	0.772	20.0
BB19837	Thallium, Total	mg/L	0.0000098	0.000147	0.100	0.0957	0.102	0.0963	0.0850 to 0.115	95.7	70.0 to 130	6.37	20.0
BB19837	Beryllium, Total	mg/L	0.0000188	0.000880	0.100	0.0997	0.102	0.100	0.0850 to 0.115	99.7	70.0 to 130	2.28	20.0
BB19839	Manganese, Dissolved	mg/L	0.0000140	0.000147	0.100	0.852	0.841	0.103	0.0850 to 0.115	56.0	70.0 to 130	1.30	20.0
BB19837	Sodium, Total	mg/L	0.00187	0.0660	5.00	27.1	27.1	5.08	4.25 to 5.75	110	70.0 to 130	0.00	20.0
BB19837	Antimony, Total	mg/L	0.000130	0.00100	0.100	0.101	0.103	0.0934	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BB19837	Chromium, Total	mg/L	-0.0000132	0.000440	0.100	0.0988	0.100	0.100	0.0850 to 0.115	98.1	70.0 to 130	1.21	20.0
BB19839	Iron, Dissolved	mg/L	5.970E-05	0.0176	0.2	45.8	47.6	0.202	0.170 to 0.230	-900	70.0 to 130	3.85	20.0
BB19837	Barium, Total	mg/L	0.0000134	0.000200	0.100	0.312	0.313	0.0991	0.0850 to 0.115	124	70.0 to 130	0.320	20.0
BB19837	Boron, Total	mg/L	0.000691	0.0650	1.00	1.09	1.08	1.02	0.850 to 1.15	102	70.0 to 130	0.922	20.0
BB19837	Potassium, Total	mg/L	0.0260	0.367	10.0	11.0	10.9	9.89	8.50 to 11.5	98.1	70.0 to 130	0.913	20.0
BB19837	Mercury, Total by CVAA	mg/L	-2.000E-05	0.000500	0.004	0.00393	0.00395	0.00391	0.00340 to 0.00460	98.2	70.0 to 130	0.508	20.0
BB19837	Lithium, Total	mg/L	-2.980E-06	0.0154	0.200	0.210	0.208	0.197	0.170 to 0.230	105	70.0 to 130	0.957	20.0
BB19837	Cobalt, Total	mg/L	0.0000032	0.000147	0.100	0.108	0.108	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BB19837	Arsenic, Total	mg/L	0.0000075	0.000147	0.100	0.114	0.115	0.105	0.0850 to 0.115	106	70.0 to 130	0.873	20.0
BB19837	Manganese, Total	mg/L	0.0000162	0.000147	0.100	1.26	1.28	0.104	0.0850 to 0.115	90.0	70.0 to 130	1.57	20.0
BB19837	Lead, Total	mg/L	0.0000023	0.000147	0.100	0.104	0.112	0.103	0.0850 to 0.115	104	70.0 to 130	7.41	20.0
BB19837	Cadmium, Total	mg/L	0.000004	0.000147	0.100	0.0986	0.105	0.100	0.0850 to 0.115	98.6	70.0 to 130	6.29	20.0
BB19837	Selenium, Total	mg/L	0.000055	0.00100	0.100	0.106	0.110	0.103	0.0850 to 0.115	106	70.0 to 130	3.70	20.0
BB19837	Molybdenum, Total	mg/L	0.0000158	0.000147	0.100	0.104	0.109	0.101	0.0850 to 0.115	104	70.0 to 130	4.69	20.0
BB19837	Calcium, Total	mg/L	0.00195	0.152	5.00	34.5	34.3	5.09	4.25 to 5.75	102	70.0 to 130	0.581	20.0
BB19837	Iron, Total	mg/L	8.480E-05	0.0176	0.2	71.5	70.5	0.205	0.170 to 0.230	100	70.0 to 130	1.41	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: WMWBARAP
Sample Date: 10/25/21 14:38
Customer ID:
Delivery Date: 10/27/21 16:26

Description: Barry Ash Pond - MW-18H DUP

Laboratory ID Number: BB19829

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB19829	Solids, Dissolved	mg/L	0.0000	25.0			303	45.0	40.0 to 60.0			0.980	10.0
BB19837	Chloride	mg/L	0.0107	1.00	12.5	18.3	5.63	10.1	9.00 to 11.0	101	80.0 to 120	0.177	20.0
BB19849	Alkalinity, Total as CaCO3	mg/L					152	48.5	45.0 to 55.0			0.660	10.0
BB19837	Fluoride	mg/L	-0.00421	0.100	2.50	2.63	0.0669	2.52	2.25 to 2.75	102	80.0 to 120	5.81	20.0
BB19837	Sulfate	mg/L	-0.148	1.00	20.0	44.9	29.3	21.1	18.0 to 22.0	77.0	80.0 to 120	0.680	20.0

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

Certificate Of Analysis

Description: Barry Ash Pond Field Blank-3

Location Code: WMWBARAPFB
Collected: 10/25/21 15:00
Customer ID:
Submittal Date: 10/27/21 16:26

Laboratory ID Number: BB19830

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	11/1/21 08:14	11/2/21 10:18		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	11/1/21 08:14	11/2/21 10:18		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	11/1/21 08:14	11/2/21 10:18		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	11/1/21 08:14	11/2/21 10:18		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/1/21 08:14	11/2/21 10:18		1.015	Not Detected	mg/L	0.021315	0.406	U
* Sodium, Total	11/1/21 08:14	11/2/21 10:18		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8			Analyst: ABB		Preparation Method: EPA 1638				
* Antimony, Total	10/29/21 07:26	10/29/21 15:38		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/29/21 07:26	10/29/21 15:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	10/29/21 07:26	10/29/21 15:38		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Beryllium, Total	10/29/21 07:26	10/29/21 15:38		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/29/21 07:26	10/29/21 15:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/29/21 07:26	10/29/21 15:38		1.015	0.000235	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/29/21 07:26	10/29/21 15:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/29/21 07:26	10/29/21 15:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/29/21 07:26	10/29/21 15:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/29/21 07:26	10/29/21 15:38		1.015	0.000102	mg/L	0.000068	0.000203	J
* Potassium, Total	10/29/21 07:26	10/29/21 15:38		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	10/29/21 07:26	10/29/21 15:38		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/29/21 07:26	10/29/21 15:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1			Analyst: CRB						
* Mercury, Total by CVAA	10/28/21 11:06	10/28/21 15:58		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: CNJ						
* Solids, Dissolved	10/28/21 10:30	10/29/21 13:10		1	Not Detected	mg/L		25	U
Analytical Method: SM4500CI E			Analyst: JCC						
* Chloride	11/2/21 10:39	11/2/21 10:39		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	11/3/21 10:47	11/3/21 10:47		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011			Analyst: JCC						
* Sulfate	10/28/21 10:56	10/28/21 10:56		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Batch QC Summary

Customer Account: WMWBARAPFB
Sample Date: 10/25/21 15:00
Customer ID:
Delivery Date: 10/27/21 16:26

Description: Barry Ash Pond Field Blank-3

Laboratory ID Number: BB19830

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB19837	Magnesium, Total	mg/L	-5.630E-05	0.0462	5.00	13.0	12.9	5.11	4.25 to 5.75	103	70.0 to 130	0.772	20.0
BB19837	Thallium, Total	mg/L	0.0000098	0.000147	0.100	0.0957	0.102	0.0963	0.0850 to 0.115	95.7	70.0 to 130	6.37	20.0
BB19837	Cadmium, Total	mg/L	0.0000004	0.000147	0.100	0.0986	0.105	0.100	0.0850 to 0.115	98.6	70.0 to 130	6.29	20.0
BB19837	Manganese, Total	mg/L	0.0000162	0.000147	0.100	1.26	1.28	0.104	0.0850 to 0.115	90.0	70.0 to 130	1.57	20.0
BB19837	Lead, Total	mg/L	0.0000023	0.000147	0.100	0.104	0.112	0.103	0.0850 to 0.115	104	70.0 to 130	7.41	20.0
BB19837	Boron, Total	mg/L	0.000691	0.0650	1.00	1.09	1.08	1.02	0.850 to 1.15	102	70.0 to 130	0.922	20.0
BB19837	Potassium, Total	mg/L	0.0260	0.367	10.0	11.0	10.9	9.89	8.50 to 11.5	98.1	70.0 to 130	0.913	20.0
BB19837	Mercury, Total by CVAA	mg/L	-2.000E-05	0.000500	0.004	0.00393	0.00395	0.00391	0.00340 to 0.00460	98.2	70.0 to 130	0.508	20.0
BB19837	Antimony, Total	mg/L	0.000130	0.00100	0.100	0.101	0.103	0.0934	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BB19837	Chromium, Total	mg/L	-0.0000132	0.000440	0.100	0.0988	0.100	0.100	0.0850 to 0.115	98.1	70.0 to 130	1.21	20.0
BB19837	Barium, Total	mg/L	0.0000134	0.000200	0.100	0.312	0.313	0.0991	0.0850 to 0.115	124	70.0 to 130	0.320	20.0
BB19837	Lithium, Total	mg/L	-2.980E-06	0.0154	0.200	0.210	0.208	0.197	0.170 to 0.230	105	70.0 to 130	0.957	20.0
BB19837	Cobalt, Total	mg/L	0.0000032	0.000147	0.100	0.108	0.108	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BB19837	Arsenic, Total	mg/L	0.0000075	0.000147	0.100	0.114	0.115	0.105	0.0850 to 0.115	106	70.0 to 130	0.873	20.0
BB19837	Beryllium, Total	mg/L	0.0000188	0.000880	0.100	0.0997	0.102	0.100	0.0850 to 0.115	99.7	70.0 to 130	2.28	20.0
BB19837	Sodium, Total	mg/L	0.00187	0.0660	5.00	27.1	27.1	5.08	4.25 to 5.75	110	70.0 to 130	0.00	20.0
BB19837	Selenium, Total	mg/L	0.000055	0.00100	0.100	0.106	0.110	0.103	0.0850 to 0.115	106	70.0 to 130	3.70	20.0
BB19837	Molybdenum, Total	mg/L	0.0000158	0.000147	0.100	0.104	0.109	0.101	0.0850 to 0.115	104	70.0 to 130	4.69	20.0
BB19837	Calcium, Total	mg/L	0.00195	0.152	5.00	34.5	34.3	5.09	4.25 to 5.75	102	70.0 to 130	0.581	20.0
BB19837	Iron, Total	mg/L	8.480E-05	0.0176	0.2	71.5	70.5	0.205	0.170 to 0.230	100	70.0 to 130	1.41	20.0

Comments:

Batch QC Summary

Customer Account: WMWBARAPFB

Sample Date: 10/25/21 15:00

Customer ID:

Delivery Date: 10/27/21 16:26

Description: Barry Ash Pond Field Blank-3

Laboratory ID Number: BB19830

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB19837	Chloride	mg/L	0.0107	1.00	12.5	18.3	5.63	10.1	9.00 to 11.0	101	80.0 to 120	0.177	20.0
BB19837	Fluoride	mg/L	-0.00421	0.100	2.50	2.63	0.0669	2.52	2.25 to 2.75	102	80.0 to 120	5.81	20.0
BB19829	Solids, Dissolved	mg/L	0.0000	25.0			303	45.0	40.0 to 60.0			0.980	10.0
BB19837	Sulfate	mg/L	-0.148	1.00	20.0	44.9	29.3	21.1	18.0 to 22.0	77.0	80.0 to 120	0.680	20.0

Comments:

Certificate Of Analysis

Description: Barry Ash Pond - MW-19H

Location Code: WMWBARAP
Collected: 10/25/21 15:55
Customer ID:
Submittal Date: 10/27/21 16:26

Laboratory ID Number: BB19831

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	11/1/21 08:14	11/2/21 10:22		1.015	0.142	mg/L	0.030000	0.1015	
* Calcium, Total	11/1/21 08:14	11/2/21 10:22		1.015	18.3	mg/L	0.070035	0.406	
* Iron, Total	11/1/21 08:14	11/2/21 12:47		10.15	9.16	mg/L	0.08120	0.406	
* Lithium, Total	11/1/21 08:14	11/2/21 10:22		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/1/21 08:14	11/2/21 10:22		1.015	3.39	mg/L	0.021315	0.406	
* Sodium, Total	11/1/21 08:14	11/2/21 10:22		1.015	11.7	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	11/1/21 08:38	11/3/21 09:51		10.15	9.20	mg/L	0.08120	0.406	
Analytical Method: EPA 200.8		Analyst: ABB			Preparation Method: EPA 1638				
* Antimony, Total	10/29/21 07:26	10/29/21 15:42		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/29/21 07:26	10/29/21 15:42		1.015	0.00134	mg/L	0.000068	0.000203	
* Barium, Total	10/29/21 07:26	10/29/21 15:42		1.015	0.0738	mg/L	0.000102	0.000203	
* Beryllium, Total	10/29/21 07:26	10/29/21 15:42		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/29/21 07:26	10/29/21 15:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/29/21 07:26	10/29/21 15:42		1.015	0.000440	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/29/21 07:26	10/29/21 15:42		1.015	0.00501	mg/L	0.000068	0.000203	
* Lead, Total	10/29/21 07:26	10/29/21 15:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/29/21 07:26	10/29/21 15:42		1.015	0.0000842	mg/L	0.000068	0.000203	J
* Potassium, Total	10/29/21 07:26	10/29/21 15:42		1.015	1.37	mg/L	0.169505	0.5075	
* Manganese, Total	10/29/21 07:26	10/29/21 15:42		1.015	0.927	mg/L	0.000068	0.000203	
* Selenium, Total	10/29/21 07:26	10/29/21 15:42		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/29/21 07:26	10/29/21 15:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	10/28/21 14:52	10/28/21 15:48		1.015	0.929	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	10/28/21 11:06	10/28/21 16:02		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	11/3/21 14:04	11/3/21 15:27		1	62.5	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/28/21 10:30	10/29/21 13:10		1	123	mg/L		25	

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

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-19H

Location Code: WMWBARAP
Collected: 10/25/21 15:55
Customer ID:
Submittal Date: 10/27/21 16:26

Laboratory ID Number: BB19831

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	11/3/21 14:04	11/3/21 15:27		1	62.5	mg/L			
Carbonate Alkalinity, (calc.)	11/3/21 14:04	11/3/21 15:27		1	0.01	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	11/2/21 10:40	11/2/21 10:40		1	10.1	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/3/21 10:48	11/3/21 10:48		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/28/21 10:57	10/28/21 10:57		1	28.7	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	10/25/21 15:53	10/25/21 15:53			197.23	uS/cm			FA
pH	10/25/21 15:53	10/25/21 15:53			6.13	SU			FA
Temperature	10/25/21 15:53	10/25/21 15:53			21.22	C			FA
Turbidity	10/25/21 15:53	10/25/21 15:53			1.74	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: WMWBARAP
Sample Date: 10/25/21 15:55
Customer ID:
Delivery Date: 10/27/21 16:26

Description: Barry Ash Pond - MW-19H

Laboratory ID Number: BB19831

Sample	Analysis	Units	MB					Standard		Rec			Prec Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BB19837	Manganese, Total	mg/L	0.0000162	0.000147	0.100	1.26	1.28	0.104	0.0850 to 0.115	90.0	70.0 to 130	1.57	20.0
BB19837	Lead, Total	mg/L	0.0000023	0.000147	0.100	0.104	0.112	0.103	0.0850 to 0.115	104	70.0 to 130	7.41	20.0
BB19837	Magnesium, Total	mg/L	-5.630E-05	0.0462	5.00	13.0	12.9	5.11	4.25 to 5.75	103	70.0 to 130	0.772	20.0
BB19837	Thallium, Total	mg/L	0.0000098	0.000147	0.100	0.0957	0.102	0.0963	0.0850 to 0.115	95.7	70.0 to 130	6.37	20.0
BB19837	Cadmium, Total	mg/L	0.000004	0.000147	0.100	0.0986	0.105	0.100	0.0850 to 0.115	98.6	70.0 to 130	6.29	20.0
BB19837	Boron, Total	mg/L	0.000691	0.0650	1.00	1.09	1.08	1.02	0.850 to 1.15	102	70.0 to 130	0.922	20.0
BB19837	Potassium, Total	mg/L	0.0260	0.367	10.0	11.0	10.9	9.89	8.50 to 11.5	98.1	70.0 to 130	0.913	20.0
BB19837	Mercury, Total by CVAA	mg/L	-2.000E-05	0.000500	0.004	0.00393	0.00395	0.00391	0.00340 to 0.00460	98.2	70.0 to 130	0.508	20.0
BB19837	Beryllium, Total	mg/L	0.0000188	0.000880	0.100	0.0997	0.102	0.100	0.0850 to 0.115	99.7	70.0 to 130	2.28	20.0
BB19839	Manganese, Dissolved	mg/L	0.0000140	0.000147	0.100	0.852	0.841	0.103	0.0850 to 0.115	56.0	70.0 to 130	1.30	20.0
BB19837	Sodium, Total	mg/L	0.00187	0.0660	5.00	27.1	27.1	5.08	4.25 to 5.75	110	70.0 to 130	0.00	20.0
BB19837	Antimony, Total	mg/L	0.000130	0.00100	0.100	0.101	0.103	0.0934	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BB19837	Chromium, Total	mg/L	-0.0000132	0.000440	0.100	0.0988	0.100	0.100	0.0850 to 0.115	98.1	70.0 to 130	1.21	20.0
BB19839	Iron, Dissolved	mg/L	5.970E-05	0.0176	0.2	45.8	47.6	0.202	0.170 to 0.230	-900	70.0 to 130	3.85	20.0
BB19837	Barium, Total	mg/L	0.0000134	0.000200	0.100	0.312	0.313	0.0991	0.0850 to 0.115	124	70.0 to 130	0.320	20.0
BB19837	Lithium, Total	mg/L	-2.980E-06	0.0154	0.200	0.210	0.208	0.197	0.170 to 0.230	105	70.0 to 130	0.957	20.0
BB19837	Cobalt, Total	mg/L	0.0000032	0.000147	0.100	0.108	0.108	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BB19837	Arsenic, Total	mg/L	0.0000075	0.000147	0.100	0.114	0.115	0.105	0.0850 to 0.115	106	70.0 to 130	0.873	20.0
BB19837	Selenium, Total	mg/L	0.000055	0.00100	0.100	0.106	0.110	0.103	0.0850 to 0.115	106	70.0 to 130	3.70	20.0
BB19837	Molybdenum, Total	mg/L	0.0000158	0.000147	0.100	0.104	0.109	0.101	0.0850 to 0.115	104	70.0 to 130	4.69	20.0
BB19837	Calcium, Total	mg/L	0.00195	0.152	5.00	34.5	34.3	5.09	4.25 to 5.75	102	70.0 to 130	0.581	20.0
BB19837	Iron, Total	mg/L	8.480E-05	0.0176	0.2	71.5	70.5	0.205	0.170 to 0.230	100	70.0 to 130	1.41	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: WMWBARAP
Sample Date: 10/25/21 15:55
Customer ID:
Delivery Date: 10/27/21 16:26

Description: Barry Ash Pond - MW-19H

Laboratory ID Number: BB19831

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB19837	Chloride	mg/L	0.0107	1.00	12.5	18.3	5.63	10.1	9.00 to 11.0	101	80.0 to 120	0.177	20.0
BB19845	Solids, Dissolved	mg/L	0.0000	25.0			205	45.0	40.0 to 60.0			2.50	10.0
BB19837	Sulfate	mg/L	-0.148	1.00	20.0	44.9	29.3	21.1	18.0 to 22.0	77.0	80.0 to 120	0.680	20.0
BB19849	Alkalinity, Total as CaCO3	mg/L					152	48.5	45.0 to 55.0			0.660	10.0
BB19837	Fluoride	mg/L	-0.00421	0.100	2.50	2.63	0.0669	2.52	2.25 to 2.75	102	80.0 to 120	5.81	20.0

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-20H

Location Code: WMWBARAP
Collected: 10/26/21 09:57
Customer ID:
Submittal Date: 10/27/21 16:26

Laboratory ID Number: BB19832

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	11/1/21 08:14	11/2/21 10:25		1.015	0.0784	mg/L	0.030000	0.1015	J
* Calcium, Total	11/1/21 08:14	11/2/21 10:25		1.015	30.2	mg/L	0.070035	0.406	
* Iron, Total	11/1/21 08:14	11/2/21 12:50		50.75	54.7	mg/L	0.40600	2.03	
* Lithium, Total	11/1/21 08:14	11/2/21 10:25		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/1/21 08:14	11/2/21 10:25		1.015	18.1	mg/L	0.021315	0.406	
* Sodium, Total	11/1/21 08:14	11/2/21 12:50		50.75	97.5	mg/L	1.5225	20.3	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	11/1/21 08:38	11/3/21 09:55		50.75	51.9	mg/L	0.40600	2.03	
Analytical Method: EPA 200.8		Analyst: ABB			Preparation Method: EPA 1638				
* Antimony, Total	10/29/21 07:26	10/29/21 15:45		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/29/21 07:26	10/29/21 15:45		1.015	0.0133	mg/L	0.000068	0.000203	
* Barium, Total	10/29/21 07:26	10/29/21 15:45		1.015	0.0936	mg/L	0.000102	0.000203	
* Beryllium, Total	10/29/21 07:26	10/29/21 15:45		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/29/21 07:26	10/29/21 15:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/29/21 07:26	10/29/21 15:45		1.015	0.00261	mg/L	0.000203	0.001015	
* Cobalt, Total	10/29/21 07:26	10/29/21 15:45		1.015	0.00447	mg/L	0.000068	0.000203	
* Lead, Total	10/29/21 07:26	10/29/21 15:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/29/21 07:26	10/29/21 15:45		1.015	0.000482	mg/L	0.000068	0.000203	
* Potassium, Total	10/29/21 07:26	10/29/21 15:45		1.015	3.33	mg/L	0.169505	0.5075	
* Manganese, Total	10/29/21 07:26	10/29/21 15:45		1.015	0.523	mg/L	0.000068	0.000203	
* Selenium, Total	10/29/21 07:26	10/29/21 15:45		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/29/21 07:26	10/29/21 15:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	10/28/21 14:52	10/28/21 15:52		1.015	0.501	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	10/28/21 11:06	10/28/21 16:06		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	11/3/21 14:04	11/3/21 15:27		1	343	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/28/21 10:30	10/29/21 13:10		1	493	mg/L		25	

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

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-20H

Location Code: WMWBARAP
Collected: 10/26/21 09:57
Customer ID:
Submittal Date: 10/27/21 16:26

Laboratory ID Number: BB19832

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	11/3/21 14:04	11/3/21 15:27		1	343	mg/L			
Carbonate Alkalinity, (calc.)	11/3/21 14:04	11/3/21 15:27		1	0.09	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	11/2/21 10:53	11/2/21 10:53		5	34.0	mg/L	2.50	5	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/3/21 10:49	11/3/21 10:49		1	0.114	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/28/21 10:59	10/28/21 10:59		2	73.2	mg/L	1.00	2	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	10/26/21 09:53	10/26/21 09:53			778.59	uS/cm			FA
pH	10/26/21 09:53	10/26/21 09:53			6.49	SU			FA
Temperature	10/26/21 09:53	10/26/21 09:53			20.02	C			FA
Turbidity	10/26/21 09:53	10/26/21 09:53			1.6	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: WMWBARAP
Sample Date: 10/26/21 09:57
Customer ID:
Delivery Date: 10/27/21 16:26

Description: Barry Ash Pond - MW-20H

Laboratory ID Number: BB19832

Sample	Analysis	Units	MB					Standard		Rec			Prec Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BB19837	Manganese, Total	mg/L	0.0000162	0.000147	0.100	1.26	1.28	0.104	0.0850 to 0.115	90.0	70.0 to 130	1.57	20.0
BB19837	Lead, Total	mg/L	0.0000023	0.000147	0.100	0.104	0.112	0.103	0.0850 to 0.115	104	70.0 to 130	7.41	20.0
BB19837	Cadmium, Total	mg/L	0.0000004	0.000147	0.100	0.0986	0.105	0.100	0.0850 to 0.115	98.6	70.0 to 130	6.29	20.0
BB19837	Beryllium, Total	mg/L	0.0000188	0.000880	0.100	0.0997	0.102	0.100	0.0850 to 0.115	99.7	70.0 to 130	2.28	20.0
BB19839	Manganese, Dissolved	mg/L	0.0000140	0.000147	0.100	0.852	0.841	0.103	0.0850 to 0.115	56.0	70.0 to 130	1.30	20.0
BB19837	Sodium, Total	mg/L	0.00187	0.0660	5.00	27.1	27.1	5.08	4.25 to 5.75	110	70.0 to 130	0.00	20.0
BB19837	Selenium, Total	mg/L	0.000055	0.00100	0.100	0.106	0.110	0.103	0.0850 to 0.115	106	70.0 to 130	3.70	20.0
BB19837	Molybdenum, Total	mg/L	0.0000158	0.000147	0.100	0.104	0.109	0.101	0.0850 to 0.115	104	70.0 to 130	4.69	20.0
BB19837	Calcium, Total	mg/L	0.00195	0.152	5.00	34.5	34.3	5.09	4.25 to 5.75	102	70.0 to 130	0.581	20.0
BB19837	Iron, Total	mg/L	8.480E-05	0.0176	0.2	71.5	70.5	0.205	0.170 to 0.230	100	70.0 to 130	1.41	20.0
BB19837	Magnesium, Total	mg/L	-5.630E-05	0.0462	5.00	13.0	12.9	5.11	4.25 to 5.75	103	70.0 to 130	0.772	20.0
BB19837	Thallium, Total	mg/L	0.0000098	0.000147	0.100	0.0957	0.102	0.0963	0.0850 to 0.115	95.7	70.0 to 130	6.37	20.0
BB19837	Lithium, Total	mg/L	-2.980E-06	0.0154	0.200	0.210	0.208	0.197	0.170 to 0.230	105	70.0 to 130	0.957	20.0
BB19837	Cobalt, Total	mg/L	0.0000032	0.000147	0.100	0.108	0.108	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BB19837	Arsenic, Total	mg/L	0.0000075	0.000147	0.100	0.114	0.115	0.105	0.0850 to 0.115	106	70.0 to 130	0.873	20.0
BB19837	Antimony, Total	mg/L	0.000130	0.00100	0.100	0.101	0.103	0.0934	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BB19837	Chromium, Total	mg/L	-0.0000132	0.000440	0.100	0.0988	0.100	0.100	0.0850 to 0.115	98.1	70.0 to 130	1.21	20.0
BB19839	Iron, Dissolved	mg/L	5.970E-05	0.0176	0.2	45.8	47.6	0.202	0.170 to 0.230	-900	70.0 to 130	3.85	20.0
BB19837	Barium, Total	mg/L	0.0000134	0.000200	0.100	0.312	0.313	0.0991	0.0850 to 0.115	124	70.0 to 130	0.320	20.0
BB19837	Boron, Total	mg/L	0.000691	0.0650	1.00	1.09	1.08	1.02	0.850 to 1.15	102	70.0 to 130	0.922	20.0
BB19837	Potassium, Total	mg/L	0.0260	0.367	10.0	11.0	10.9	9.89	8.50 to 11.5	98.1	70.0 to 130	0.913	20.0
BB19837	Mercury, Total by CVAA	mg/L	-2.000E-05	0.000500	0.004	0.00393	0.00395	0.00391	0.00340 to 0.00460	98.2	70.0 to 130	0.508	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: WMWBARAP
Sample Date: 10/26/21 09:57
Customer ID:
Delivery Date: 10/27/21 16:26

Description: Barry Ash Pond - MW-20H

Laboratory ID Number: BB19832

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB19849	Alkalinity, Total as CaCO3	mg/L					152	48.5	45.0 to 55.0			0.660	10.0
BB19837	Fluoride	mg/L	-0.00421	0.100	2.50	2.63	0.0669	2.52	2.25 to 2.75	102	80.0 to 120	5.81	20.0
BB19845	Solids, Dissolved	mg/L	0.0000	25.0			205	45.0	40.0 to 60.0			2.50	10.0
BB19837	Sulfate	mg/L	-0.148	1.00	20.0	44.9	29.3	21.1	18.0 to 22.0	77.0	80.0 to 120	0.680	20.0
BB19837	Chloride	mg/L	0.0107	1.00	12.5	18.3	5.63	10.1	9.00 to 11.0	101	80.0 to 120	0.177	20.0

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-22H

Location Code: WMWBARAP
Collected: 10/26/21 11:02
Customer ID:
Submittal Date: 10/27/21 16:26

Laboratory ID Number: BB19833

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	11/1/21 08:14	11/2/21 10:28		1.015	0.0725	mg/L	0.030000	0.1015	J
* Calcium, Total	11/1/21 08:14	11/2/21 10:28		1.015	15.1	mg/L	0.070035	0.406	
* Iron, Total	11/1/21 08:14	11/2/21 12:54		50.75	68.9	mg/L	0.40600	2.03	
* Lithium, Total	11/1/21 08:14	11/2/21 10:28		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/1/21 08:14	11/2/21 10:28		1.015	13.5	mg/L	0.021315	0.406	
* Sodium, Total	11/1/21 08:14	11/2/21 12:54		50.75	75.9	mg/L	1.5225	20.3	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	11/1/21 08:38	11/3/21 09:58		50.75	66.2	mg/L	0.40600	2.03	
Analytical Method: EPA 200.8		Analyst: ABB			Preparation Method: EPA 1638				
* Antimony, Total	10/29/21 07:26	10/29/21 15:49		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/29/21 07:26	10/29/21 15:49		1.015	0.0202	mg/L	0.000068	0.000203	
* Barium, Total	10/29/21 07:26	10/29/21 15:49		1.015	0.202	mg/L	0.000102	0.000203	
* Beryllium, Total	10/29/21 07:26	10/29/21 15:49		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/29/21 07:26	10/29/21 15:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/29/21 07:26	10/29/21 15:49		1.015	0.000618	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/29/21 07:26	10/29/21 15:49		1.015	0.00285	mg/L	0.000068	0.000203	
* Lead, Total	10/29/21 07:26	10/29/21 15:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/29/21 07:26	10/29/21 15:49		1.015	0.00136	mg/L	0.000068	0.000203	
* Potassium, Total	10/29/21 07:26	10/29/21 15:49		1.015	2.04	mg/L	0.169505	0.5075	
* Manganese, Total	10/29/21 07:26	10/29/21 15:49		1.015	0.567	mg/L	0.000068	0.000203	
* Selenium, Total	10/29/21 07:26	10/29/21 15:49		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/29/21 07:26	10/29/21 15:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	10/28/21 14:52	10/28/21 15:55		1.015	0.558	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	10/28/21 11:06	10/28/21 16:10		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	11/3/21 14:04	11/3/21 15:27		1	221	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/28/21 10:30	10/29/21 13:10		1	362	mg/L		25	

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

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-22H

Location Code: WMWBARAP
Collected: 10/26/21 11:02
Customer ID:
Submittal Date: 10/27/21 16:26

Laboratory ID Number: BB19833

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	11/3/21 14:04	11/3/21 15:27		1	221	mg/L			
Carbonate Alkalinity, (calc.)	11/3/21 14:04	11/3/21 15:27		1	0.09	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	11/2/21 10:54	11/2/21 10:54		8	54.5	mg/L	4.00	8	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/3/21 10:50	11/3/21 10:50		1	0.323	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/28/21 11:00	10/28/21 11:00		4	140	mg/L	2.00	4	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	10/26/21 10:59	10/26/21 10:59			667.72	uS/cm			FA
pH	10/26/21 10:59	10/26/21 10:59			6.86	SU			FA
Temperature	10/26/21 10:59	10/26/21 10:59			20.28	C			FA
Turbidity	10/26/21 10:59	10/26/21 10:59			1.97	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/26/21 11:02
Customer ID:
Delivery Date: 10/27/21 16:26

Description: Barry Ash Pond - MW-22H

Laboratory ID Number: BB19833

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB19837	Beryllium, Total	mg/L	0.0000188	0.000880	0.100	0.0997	0.102	0.100	0.0850 to 0.115	99.7	70.0 to 130	2.28	20.0
BB19839	Manganese, Dissolved	mg/L	0.0000140	0.000147	0.100	0.852	0.841	0.103	0.0850 to 0.115	56.0	70.0 to 130	1.30	20.0
BB19837	Sodium, Total	mg/L	0.00187	0.0660	5.00	27.1	27.1	5.08	4.25 to 5.75	110	70.0 to 130	0.00	20.0
BB19837	Magnesium, Total	mg/L	-5.630E-05	0.0462	5.00	13.0	12.9	5.11	4.25 to 5.75	103	70.0 to 130	0.772	20.0
BB19837	Thallium, Total	mg/L	0.0000098	0.000147	0.100	0.0957	0.102	0.0963	0.0850 to 0.115	95.7	70.0 to 130	6.37	20.0
BB19837	Boron, Total	mg/L	0.000691	0.0650	1.00	1.09	1.08	1.02	0.850 to 1.15	102	70.0 to 130	0.922	20.0
BB19837	Potassium, Total	mg/L	0.0260	0.367	10.0	11.0	10.9	9.89	8.50 to 11.5	98.1	70.0 to 130	0.913	20.0
BB19837	Mercury, Total by CVAA	mg/L	-2.000E-05	0.000500	0.004	0.00393	0.00395	0.00391	0.00340 to 0.00460	98.2	70.0 to 130	0.508	20.0
BB19837	Antimony, Total	mg/L	0.000130	0.00100	0.100	0.101	0.103	0.0934	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BB19837	Chromium, Total	mg/L	-0.0000132	0.000440	0.100	0.0988	0.100	0.100	0.0850 to 0.115	98.1	70.0 to 130	1.21	20.0
BB19839	Iron, Dissolved	mg/L	5.970E-05	0.0176	0.2	45.8	47.6	0.202	0.170 to 0.230	-900	70.0 to 130	3.85	20.0
BB19837	Barium, Total	mg/L	0.0000134	0.000200	0.100	0.312	0.313	0.0991	0.0850 to 0.115	124	70.0 to 130	0.320	20.0
BB19837	Lithium, Total	mg/L	-2.980E-06	0.0154	0.200	0.210	0.208	0.197	0.170 to 0.230	105	70.0 to 130	0.957	20.0
BB19837	Cobalt, Total	mg/L	0.0000032	0.000147	0.100	0.108	0.108	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BB19837	Arsenic, Total	mg/L	0.0000075	0.000147	0.100	0.114	0.115	0.105	0.0850 to 0.115	106	70.0 to 130	0.873	20.0
BB19837	Selenium, Total	mg/L	0.000055	0.00100	0.100	0.106	0.110	0.103	0.0850 to 0.115	106	70.0 to 130	3.70	20.0
BB19837	Molybdenum, Total	mg/L	0.0000158	0.000147	0.100	0.104	0.109	0.101	0.0850 to 0.115	104	70.0 to 130	4.69	20.0
BB19837	Calcium, Total	mg/L	0.00195	0.152	5.00	34.5	34.3	5.09	4.25 to 5.75	102	70.0 to 130	0.581	20.0
BB19837	Iron, Total	mg/L	8.480E-05	0.0176	0.2	71.5	70.5	0.205	0.170 to 0.230	100	70.0 to 130	1.41	20.0
BB19837	Cadmium, Total	mg/L	0.000004	0.000147	0.100	0.0986	0.105	0.100	0.0850 to 0.115	98.6	70.0 to 130	6.29	20.0
BB19837	Manganese, Total	mg/L	0.0000162	0.000147	0.100	1.26	1.28	0.104	0.0850 to 0.115	90.0	70.0 to 130	1.57	20.0
BB19837	Lead, Total	mg/L	0.0000023	0.000147	0.100	0.104	0.112	0.103	0.0850 to 0.115	104	70.0 to 130	7.41	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: WMWBARAP
Sample Date: 10/26/21 11:02
Customer ID:
Delivery Date: 10/27/21 16:26

Description: Barry Ash Pond - MW-22H

Laboratory ID Number: BB19833

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB19837	Chloride	mg/L	0.0107	1.00	12.5	18.3	5.63	10.1	9.00 to 11.0	101	80.0 to 120	0.177	20.0
BB19837	Sulfate	mg/L	-0.148	1.00	20.0	44.9	29.3	21.1	18.0 to 22.0	77.0	80.0 to 120	0.680	20.0
BB19845	Solids, Dissolved	mg/L	0.0000	25.0			205	45.0	40.0 to 60.0			2.50	10.0
BB19849	Alkalinity, Total as CaCO3	mg/L					152	48.5	45.0 to 55.0			0.660	10.0
BB19837	Fluoride	mg/L	-0.00421	0.100	2.50	2.63	0.0669	2.52	2.25 to 2.75	102	80.0 to 120	5.81	20.0

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-15V

Location Code: WMWBARAP
Collected: 10/26/21 11:50
Customer ID:
Submittal Date: 10/27/21 16:26

Laboratory ID Number: BB19834

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	11/1/21 08:14	11/2/21 10:32		1.015	0.0498	mg/L	0.030000	0.1015	J
* Calcium, Total	11/1/21 08:14	11/2/21 10:32		1.015	8.16	mg/L	0.070035	0.406	
* Iron, Total	11/1/21 08:14	11/2/21 12:57		50.75	52.7	mg/L	0.40600	2.03	
* Lithium, Total	11/1/21 08:14	11/2/21 10:32		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/1/21 08:14	11/2/21 10:32		1.015	5.15	mg/L	0.021315	0.406	
* Sodium, Total	11/1/21 08:14	11/2/21 12:57		50.75	73.1	mg/L	1.5225	20.3	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	11/1/21 08:38	11/3/21 10:01		50.75	50.6	mg/L	0.40600	2.03	
Analytical Method: EPA 200.8		Analyst: ABB			Preparation Method: EPA 1638				
* Antimony, Total	10/29/21 07:26	10/29/21 15:52		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/29/21 07:26	10/29/21 15:52		1.015	0.0248	mg/L	0.000068	0.000203	
* Barium, Total	10/29/21 07:26	10/29/21 15:52		1.015	0.149	mg/L	0.000102	0.000203	
* Beryllium, Total	10/29/21 07:26	10/29/21 15:52		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/29/21 07:26	10/29/21 15:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/29/21 07:26	10/29/21 15:52		1.015	0.000264	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/29/21 07:26	10/29/21 15:52		1.015	0.0757	mg/L	0.000068	0.000203	
* Lead, Total	10/29/21 07:26	10/29/21 15:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/29/21 07:26	10/29/21 15:52		1.015	0.000109	mg/L	0.000068	0.000203	J
* Potassium, Total	10/29/21 07:26	10/29/21 15:52		1.015	3.26	mg/L	0.169505	0.5075	
* Manganese, Total	10/29/21 07:26	10/29/21 15:52		1.015	1.07	mg/L	0.000068	0.000203	
* Selenium, Total	10/29/21 07:26	10/29/21 15:52		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/29/21 07:26	10/29/21 15:52		1.015	0.0000740	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	10/28/21 14:52	10/28/21 15:59		1.015	1.07	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	10/28/21 11:06	10/28/21 16:14		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	11/3/21 14:04	11/3/21 15:27		1	33.5	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/28/21 10:30	10/29/21 13:10		1	358	mg/L		25	

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

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-15V

Location Code: WMWBARAP
Collected: 10/26/21 11:50
Customer ID:
Submittal Date: 10/27/21 16:26

Laboratory ID Number: BB19834

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	11/3/21 14:04	11/3/21 15:27		1	33.5	mg/L			
Carbonate Alkalinity, (calc.)	11/3/21 14:04	11/3/21 15:27		1	0.01	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	11/2/21 10:56	11/2/21 10:56		16	196	mg/L	8.00	16	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/3/21 10:51	11/3/21 10:51		1	0.0808	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/28/21 11:01	10/28/21 11:01		1	0.966	mg/L	0.50	1	J
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	10/26/21 11:48	10/26/21 11:48			661.41	uS/cm			FA
pH	10/26/21 11:48	10/26/21 11:48			5.93	SU			FA
Temperature	10/26/21 11:48	10/26/21 11:48			21.09	C			FA
Turbidity	10/26/21 11:48	10/26/21 11:48			1.82	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/26/21 11:50
Customer ID:
Delivery Date: 10/27/21 16:26

Description: Barry Ash Pond - MW-15V

Laboratory ID Number: BB19834

Sample	Analysis	Units	MB					Standard		Rec			Prec Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BB19837	Magnesium, Total	mg/L	-5.630E-05	0.0462	5.00	13.0	12.9	5.11	4.25 to 5.75	103	70.0 to 130	0.772	20.0
BB19837	Thallium, Total	mg/L	0.0000098	0.000147	0.100	0.0957	0.102	0.0963	0.0850 to 0.115	95.7	70.0 to 130	6.37	20.0
BB19837	Boron, Total	mg/L	0.000691	0.0650	1.00	1.09	1.08	1.02	0.850 to 1.15	102	70.0 to 130	0.922	20.0
BB19837	Potassium, Total	mg/L	0.0260	0.367	10.0	11.0	10.9	9.89	8.50 to 11.5	98.1	70.0 to 130	0.913	20.0
BB19837	Mercury, Total by CVAA	mg/L	-2.000E-05	0.000500	0.004	0.00393	0.00395	0.00391	0.00340 to 0.00460	98.2	70.0 to 130	0.508	20.0
BB19837	Cadmium, Total	mg/L	0.000004	0.000147	0.100	0.0986	0.105	0.100	0.0850 to 0.115	98.6	70.0 to 130	6.29	20.0
BB19837	Manganese, Total	mg/L	0.0000162	0.000147	0.100	1.26	1.28	0.104	0.0850 to 0.115	90.0	70.0 to 130	1.57	20.0
BB19837	Lead, Total	mg/L	0.0000023	0.000147	0.100	0.104	0.112	0.103	0.0850 to 0.115	104	70.0 to 130	7.41	20.0
BB19837	Beryllium, Total	mg/L	0.0000188	0.000880	0.100	0.0997	0.102	0.100	0.0850 to 0.115	99.7	70.0 to 130	2.28	20.0
BB19839	Manganese, Dissolved	mg/L	0.0000140	0.000147	0.100	0.852	0.841	0.103	0.0850 to 0.115	56.0	70.0 to 130	1.30	20.0
BB19837	Sodium, Total	mg/L	0.00187	0.0660	5.00	27.1	27.1	5.08	4.25 to 5.75	110	70.0 to 130	0.00	20.0
BB19837	Lithium, Total	mg/L	-2.980E-06	0.0154	0.200	0.210	0.208	0.197	0.170 to 0.230	105	70.0 to 130	0.957	20.0
BB19837	Cobalt, Total	mg/L	0.0000032	0.000147	0.100	0.108	0.108	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BB19837	Arsenic, Total	mg/L	0.0000075	0.000147	0.100	0.114	0.115	0.105	0.0850 to 0.115	106	70.0 to 130	0.873	20.0
BB19837	Selenium, Total	mg/L	0.000055	0.00100	0.100	0.106	0.110	0.103	0.0850 to 0.115	106	70.0 to 130	3.70	20.0
BB19837	Molybdenum, Total	mg/L	0.0000158	0.000147	0.100	0.104	0.109	0.101	0.0850 to 0.115	104	70.0 to 130	4.69	20.0
BB19837	Calcium, Total	mg/L	0.00195	0.152	5.00	34.5	34.3	5.09	4.25 to 5.75	102	70.0 to 130	0.581	20.0
BB19837	Iron, Total	mg/L	8.480E-05	0.0176	0.2	71.5	70.5	0.205	0.170 to 0.230	100	70.0 to 130	1.41	20.0
BB19837	Antimony, Total	mg/L	0.000130	0.00100	0.100	0.101	0.103	0.0934	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BB19837	Chromium, Total	mg/L	-0.0000132	0.000440	0.100	0.0988	0.100	0.100	0.0850 to 0.115	98.1	70.0 to 130	1.21	20.0
BB19839	Iron, Dissolved	mg/L	5.970E-05	0.0176	0.2	45.8	47.6	0.202	0.170 to 0.230	-900	70.0 to 130	3.85	20.0
BB19837	Barium, Total	mg/L	0.0000134	0.000200	0.100	0.312	0.313	0.0991	0.0850 to 0.115	124	70.0 to 130	0.320	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: WMWBARAP
Sample Date: 10/26/21 11:50
Customer ID:
Delivery Date: 10/27/21 16:26

Description: Barry Ash Pond - MW-15V

Laboratory ID Number: BB19834

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB19837	Chloride	mg/L	0.0107	1.00	12.5	18.3	5.63	10.1	9.00 to 11.0	101	80.0 to 120	0.177	20.0
BB19845	Solids, Dissolved	mg/L	0.0000	25.0			205	45.0	40.0 to 60.0			2.50	10.0
BB19849	Alkalinity, Total as CaCO3	mg/L					152	48.5	45.0 to 55.0			0.660	10.0
BB19837	Fluoride	mg/L	-0.00421	0.100	2.50	2.63	0.0669	2.52	2.25 to 2.75	102	80.0 to 120	5.81	20.0
BB19837	Sulfate	mg/L	-0.148	1.00	20.0	44.9	29.3	21.1	18.0 to 22.0	77.0	80.0 to 120	0.680	20.0

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-15V DUP

Location Code: WMWBARAP
Collected: 10/26/21 11:50
Customer ID:
Submittal Date: 10/27/21 16:26

Laboratory ID Number: BB19835

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	11/1/21 08:14	11/2/21 10:35		1.015	0.0489	mg/L	0.030000	0.1015	J
* Calcium, Total	11/1/21 08:14	11/2/21 10:35		1.015	8.13	mg/L	0.070035	0.406	
* Iron, Total	11/1/21 08:14	11/2/21 13:00		50.75	52.8	mg/L	0.40600	2.03	
* Lithium, Total	11/1/21 08:14	11/2/21 10:35		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/1/21 08:14	11/2/21 10:35		1.015	5.13	mg/L	0.021315	0.406	
* Sodium, Total	11/1/21 08:14	11/2/21 13:00		50.75	72.1	mg/L	1.5225	20.3	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	11/1/21 08:38	11/3/21 10:05		50.75	51.8	mg/L	0.40600	2.03	
Analytical Method: EPA 200.8		Analyst: ABB			Preparation Method: EPA 1638				
* Antimony, Total	10/29/21 07:26	10/29/21 15:56		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/29/21 07:26	10/29/21 15:56		1.015	0.0242	mg/L	0.000068	0.000203	
* Barium, Total	10/29/21 07:26	10/29/21 15:56		1.015	0.149	mg/L	0.000102	0.000203	
* Beryllium, Total	10/29/21 07:26	10/29/21 15:56		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/29/21 07:26	10/29/21 15:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/29/21 07:26	10/29/21 15:56		1.015	0.000385	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/29/21 07:26	10/29/21 15:56		1.015	0.0756	mg/L	0.000068	0.000203	
* Lead, Total	10/29/21 07:26	10/29/21 15:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/29/21 07:26	10/29/21 15:56		1.015	0.000110	mg/L	0.000068	0.000203	J
* Potassium, Total	10/29/21 07:26	10/29/21 15:56		1.015	3.26	mg/L	0.169505	0.5075	
* Manganese, Total	10/29/21 07:26	10/29/21 15:56		1.015	1.05	mg/L	0.000068	0.000203	
* Selenium, Total	10/29/21 07:26	10/29/21 15:56		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/29/21 07:26	10/29/21 15:56		1.015	0.0000868	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	10/28/21 14:52	10/28/21 16:02		1.015	1.11	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	10/28/21 11:06	10/28/21 16:18		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	11/3/21 14:04	11/3/21 15:27		1	37.6	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/29/21 11:46	11/1/21 13:36		1	321	mg/L		25	

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

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-15V DUP

Location Code: WMWBARAP
Collected: 10/26/21 11:50
Customer ID:
Submittal Date: 10/27/21 16:26

Laboratory ID Number: BB19835

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	11/3/21 14:04	11/3/21 15:27		1	37.6	mg/L			
Carbonate Alkalinity, (calc.)	11/3/21 14:04	11/3/21 15:27		1	0.01	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	11/2/21 10:57	11/2/21 10:57		16	183	mg/L	8.00	16	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/3/21 10:53	11/3/21 10:53		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/28/21 11:02	10/28/21 11:02		1	0.829	mg/L	0.50	1	J
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	10/26/21 11:48	10/26/21 11:48			661.41	uS/cm			FA
pH	10/26/21 11:48	10/26/21 11:48			5.93	SU			FA
Temperature	10/26/21 11:48	10/26/21 11:48			21.09	C			FA
Turbidity	10/26/21 11:48	10/26/21 11:48			1.82	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/26/21 11:50
Customer ID:
Delivery Date: 10/27/21 16:26

Description: Barry Ash Pond - MW-15V DUP

Laboratory ID Number: BB19835

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB19837	Beryllium, Total	mg/L	0.0000188	0.000880	0.100	0.0997	0.102	0.100	0.0850 to 0.115	99.7	70.0 to 130	2.28	20.0
BB19839	Manganese, Dissolved	mg/L	0.0000140	0.000147	0.100	0.852	0.841	0.103	0.0850 to 0.115	56.0	70.0 to 130	1.30	20.0
BB19837	Sodium, Total	mg/L	0.00187	0.0660	5.00	27.1	27.1	5.08	4.25 to 5.75	110	70.0 to 130	0.00	20.0
BB19837	Cadmium, Total	mg/L	0.000004	0.000147	0.100	0.0986	0.105	0.100	0.0850 to 0.115	98.6	70.0 to 130	6.29	20.0
BB19837	Magnesium, Total	mg/L	-5.630E-05	0.0462	5.00	13.0	12.9	5.11	4.25 to 5.75	103	70.0 to 130	0.772	20.0
BB19837	Thallium, Total	mg/L	0.0000098	0.000147	0.100	0.0957	0.102	0.0963	0.0850 to 0.115	95.7	70.0 to 130	6.37	20.0
BB19837	Boron, Total	mg/L	0.000691	0.0650	1.00	1.09	1.08	1.02	0.850 to 1.15	102	70.0 to 130	0.922	20.0
BB19837	Potassium, Total	mg/L	0.0260	0.367	10.0	11.0	10.9	9.89	8.50 to 11.5	98.1	70.0 to 130	0.913	20.0
BB19837	Mercury, Total by CVAA	mg/L	-2.000E-05	0.000500	0.004	0.00393	0.00395	0.00391	0.00340 to 0.00460	98.2	70.0 to 130	0.508	20.0
BB19837	Selenium, Total	mg/L	0.000055	0.00100	0.100	0.106	0.110	0.103	0.0850 to 0.115	106	70.0 to 130	3.70	20.0
BB19837	Molybdenum, Total	mg/L	0.0000158	0.000147	0.100	0.104	0.109	0.101	0.0850 to 0.115	104	70.0 to 130	4.69	20.0
BB19837	Calcium, Total	mg/L	0.00195	0.152	5.00	34.5	34.3	5.09	4.25 to 5.75	102	70.0 to 130	0.581	20.0
BB19837	Iron, Total	mg/L	8.480E-05	0.0176	0.2	71.5	70.5	0.205	0.170 to 0.230	100	70.0 to 130	1.41	20.0
BB19837	Manganese, Total	mg/L	0.0000162	0.000147	0.100	1.26	1.28	0.104	0.0850 to 0.115	90.0	70.0 to 130	1.57	20.0
BB19837	Lead, Total	mg/L	0.0000023	0.000147	0.100	0.104	0.112	0.103	0.0850 to 0.115	104	70.0 to 130	7.41	20.0
BB19837	Antimony, Total	mg/L	0.000130	0.00100	0.100	0.101	0.103	0.0934	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BB19837	Chromium, Total	mg/L	-0.0000132	0.000440	0.100	0.0988	0.100	0.100	0.0850 to 0.115	98.1	70.0 to 130	1.21	20.0
BB19839	Iron, Dissolved	mg/L	5.970E-05	0.0176	0.2	45.8	47.6	0.202	0.170 to 0.230	-900	70.0 to 130	3.85	20.0
BB19837	Barium, Total	mg/L	0.0000134	0.000200	0.100	0.312	0.313	0.0991	0.0850 to 0.115	124	70.0 to 130	0.320	20.0
BB19837	Lithium, Total	mg/L	-2.980E-06	0.0154	0.200	0.210	0.208	0.197	0.170 to 0.230	105	70.0 to 130	0.957	20.0
BB19837	Cobalt, Total	mg/L	0.0000032	0.000147	0.100	0.108	0.108	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BB19837	Arsenic, Total	mg/L	0.0000075	0.000147	0.100	0.114	0.115	0.105	0.0850 to 0.115	106	70.0 to 130	0.873	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: WMWBARAP
Sample Date: 10/26/21 11:50
Customer ID:
Delivery Date: 10/27/21 16:26

Description: Barry Ash Pond - MW-15V DUP

Laboratory ID Number: BB19835

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB19849	Solids, Dissolved	mg/L	0.0000	25.0			274	51.0	40.0 to 60.0			2.17	10.0
BB19849	Alkalinity, Total as CaCO3	mg/L					152	48.5	45.0 to 55.0			0.660	10.0
BB19837	Fluoride	mg/L	-0.00421	0.100	2.50	2.63	0.0669	2.52	2.25 to 2.75	102	80.0 to 120	5.81	20.0
BB19837	Sulfate	mg/L	-0.148	1.00	20.0	44.9	29.3	21.1	18.0 to 22.0	77.0	80.0 to 120	0.680	20.0
BB19837	Chloride	mg/L	0.0107	1.00	12.5	18.3	5.63	10.1	9.00 to 11.0	101	80.0 to 120	0.177	20.0

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

Certificate Of Analysis

Description: Barry Ash Pond Field Blank-2

Location Code: WMWBARAPFB
Collected: 10/26/21 12:10
Customer ID:
Submittal Date: 10/27/21 16:26

Laboratory ID Number: BB19836

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	11/1/21 08:14	11/2/21 10:39		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	11/1/21 08:14	11/2/21 10:39		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	11/1/21 08:14	11/2/21 10:39		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	11/1/21 08:14	11/2/21 10:39		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/1/21 08:14	11/2/21 10:39		1.015	Not Detected	mg/L	0.021315	0.406	U
* Sodium, Total	11/1/21 08:14	11/2/21 10:39		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8		Analyst: ABB			Preparation Method: EPA 1638				
* Antimony, Total	10/29/21 07:26	10/29/21 15:59		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/29/21 07:26	10/29/21 15:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	10/29/21 07:26	10/29/21 15:59		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Beryllium, Total	10/29/21 07:26	10/29/21 15:59		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/29/21 07:26	10/29/21 15:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/29/21 07:26	10/29/21 15:59		1.015	0.000304	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/29/21 07:26	10/29/21 15:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/29/21 07:26	10/29/21 15:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/29/21 07:26	10/29/21 15:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/29/21 07:26	10/29/21 15:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	10/29/21 07:26	10/29/21 15:59		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	10/29/21 07:26	10/29/21 15:59		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/29/21 07:26	10/29/21 15:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	10/28/21 11:06	10/28/21 16:22		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/29/21 11:46	11/1/21 13:36		1	Not Detected	mg/L		25	U
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	11/2/21 10:46	11/2/21 10:46		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/3/21 10:54	11/3/21 10:54		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/28/21 11:03	10/28/21 11:03		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Batch QC Summary

Customer Account: WMWBARAPFB
Sample Date: 10/26/21 12:10
Customer ID:
Delivery Date: 10/27/21 16:26

Description: Barry Ash Pond Field Blank-2

Laboratory ID Number: BB19836

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BB19837	Beryllium, Total	mg/L	0.0000188	0.000880	0.100	0.0997	0.102	0.100	0.0850 to 0.115	99.7	70.0 to 130	2.28	20.0	
BB19837	Sodium, Total	mg/L	0.00187	0.0660	5.00	27.1	27.1	5.08	4.25 to 5.75	110	70.0 to 130	0.00	20.0	
BB19837	Cadmium, Total	mg/L	0.000004	0.000147	0.100	0.0986	0.105	0.100	0.0850 to 0.115	98.6	70.0 to 130	6.29	20.0	
BB19837	Manganese, Total	mg/L	0.0000162	0.000147	0.100	1.26	1.28	0.104	0.0850 to 0.115	90.0	70.0 to 130	1.57	20.0	
BB19837	Lead, Total	mg/L	0.0000023	0.000147	0.100	0.104	0.112	0.103	0.0850 to 0.115	104	70.0 to 130	7.41	20.0	
BB19837	Magnesium, Total	mg/L	-5.630E-05	0.0462	5.00	13.0	12.9	5.11	4.25 to 5.75	103	70.0 to 130	0.772	20.0	
BB19837	Thallium, Total	mg/L	0.0000098	0.000147	0.100	0.0957	0.102	0.0963	0.0850 to 0.115	95.7	70.0 to 130	6.37	20.0	
BB19837	Boron, Total	mg/L	0.000691	0.0650	1.00	1.09	1.08	1.02	0.850 to 1.15	102	70.0 to 130	0.922	20.0	
BB19837	Potassium, Total	mg/L	0.0260	0.367	10.0	11.0	10.9	9.89	8.50 to 11.5	98.1	70.0 to 130	0.913	20.0	
BB19837	Mercury, Total by CVAA	mg/L	-2.000E-05	0.000500	0.004	0.00393	0.00395	0.00391	0.00340 to 0.00460	98.2	70.0 to 130	0.508	20.0	
BB19837	Antimony, Total	mg/L	0.000130	0.00100	0.100	0.101	0.103	0.0934	0.0850 to 0.115	101	70.0 to 130	1.96	20.0	
BB19837	Chromium, Total	mg/L	-0.0000132	0.000440	0.100	0.0988	0.100	0.100	0.0850 to 0.115	98.1	70.0 to 130	1.21	20.0	
BB19837	Barium, Total	mg/L	0.0000134	0.000200	0.100	0.312	0.313	0.0991	0.0850 to 0.115	124	70.0 to 130	0.320	20.0	
BB19837	Selenium, Total	mg/L	0.000055	0.00100	0.100	0.106	0.110	0.103	0.0850 to 0.115	106	70.0 to 130	3.70	20.0	
BB19837	Molybdenum, Total	mg/L	0.0000158	0.000147	0.100	0.104	0.109	0.101	0.0850 to 0.115	104	70.0 to 130	4.69	20.0	
BB19837	Calcium, Total	mg/L	0.00195	0.152	5.00	34.5	34.3	5.09	4.25 to 5.75	102	70.0 to 130	0.581	20.0	
BB19837	Iron, Total	mg/L	8.480E-05	0.0176	0.2	71.5	70.5	0.205	0.170 to 0.230	100	70.0 to 130	1.41	20.0	
BB19837	Lithium, Total	mg/L	-2.980E-06	0.0154	0.200	0.210	0.208	0.197	0.170 to 0.230	105	70.0 to 130	0.957	20.0	
BB19837	Cobalt, Total	mg/L	0.0000032	0.000147	0.100	0.108	0.108	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0	
BB19837	Arsenic, Total	mg/L	0.0000075	0.000147	0.100	0.114	0.115	0.105	0.0850 to 0.115	106	70.0 to 130	0.873	20.0	

Comments:

Batch QC Summary

Customer Account: WMWBARAPFB

Sample Date: 10/26/21 12:10

Customer ID:

Delivery Date: 10/27/21 16:26

Description: Barry Ash Pond Field Blank-2

Laboratory ID Number: BB19836

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB19837	Chloride	mg/L	0.0107	1.00	12.5	18.3	5.63	10.1	9.00 to 11.0	101	80.0 to 120	0.177	20.0
BB19837	Fluoride	mg/L	-0.00421	0.100	2.50	2.63	0.0669	2.52	2.25 to 2.75	102	80.0 to 120	5.81	20.0
BB19849	Solids, Dissolved	mg/L	0.0000	25.0			274	51.0	40.0 to 60.0			2.17	10.0
BB19837	Sulfate	mg/L	-0.148	1.00	20.0	44.9	29.3	21.1	18.0 to 22.0	77.0	80.0 to 120	0.680	20.0

Comments:

Certificate Of Analysis

Description: Barry Ash Pond - MW-23H

Location Code: WMWBARAP
Collected: 10/26/21 13:45
Customer ID:
Submittal Date: 10/27/21 16:26

Laboratory ID Number: BB19837

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	11/1/21 08:14	11/2/21 10:42		1.015	0.0709	mg/L	0.030000	0.1015	J
* Calcium, Total	11/1/21 08:14	11/2/21 10:42		1.015	29.4	mg/L	0.070035	0.406	
* Iron, Total	11/1/21 08:14	11/2/21 13:04		50.75	71.3	mg/L	0.40600	2.03	RA
* Lithium, Total	11/1/21 08:14	11/2/21 10:42		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/1/21 08:14	11/2/21 10:42		1.015	7.85	mg/L	0.021315	0.406	
* Sodium, Total	11/1/21 08:14	11/2/21 10:42		1.015	21.6	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	11/1/21 08:38	11/3/21 10:08		50.75	67.4	mg/L	0.40600	2.03	
Analytical Method: EPA 200.8		Analyst: ABB			Preparation Method: EPA 1638				
* Antimony, Total	10/29/21 07:26	10/29/21 16:03		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/29/21 07:26	10/29/21 16:03		1.015	0.00807	mg/L	0.000068	0.000203	
* Barium, Total	10/29/21 07:26	10/29/21 16:03		1.015	0.188	mg/L	0.000102	0.000203	
* Beryllium, Total	10/29/21 07:26	10/29/21 16:03		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/29/21 07:26	10/29/21 16:03		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/29/21 07:26	10/29/21 16:03		1.015	0.000696	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/29/21 07:26	10/29/21 16:03		1.015	0.00495	mg/L	0.000068	0.000203	
* Lead, Total	10/29/21 07:26	10/29/21 16:03		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/29/21 07:26	10/29/21 16:03		1.015	0.000350	mg/L	0.000068	0.000203	
* Potassium, Total	10/29/21 07:26	10/29/21 16:03		1.015	1.19	mg/L	0.169505	0.5075	
* Manganese, Total	10/29/21 07:26	10/29/21 16:03		1.015	1.17	mg/L	0.000068	0.000203	
* Selenium, Total	10/29/21 07:26	10/29/21 16:03		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/29/21 07:26	10/29/21 16:03		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	10/28/21 14:52	10/28/21 16:06		1.015	1.10	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	10/28/21 11:06	10/28/21 16:25		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	11/3/21 14:04	11/3/21 15:27		1	195	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/29/21 11:46	11/1/21 13:36		1	252	mg/L		25	

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

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-23H

Location Code: WMWBARAP
Collected: 10/26/21 13:45
Customer ID:
Submittal Date: 10/27/21 16:26

Laboratory ID Number: BB19837

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	11/3/21 14:04	11/3/21 15:27		1	195	mg/L			
Carbonate Alkalinity, (calc.)	11/3/21 14:04	11/3/21 15:27		1	0.11	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	11/2/21 10:47	11/2/21 10:47		1	5.64	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/3/21 10:55	11/3/21 10:55		1	0.0709	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/28/21 11:05	10/28/21 11:05		1	29.5	mg/L	0.50	1	R
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	10/26/21 13:41	10/26/21 13:41			480.91	uS/cm			FA
pH	10/26/21 13:41	10/26/21 13:41			6.54	SU			FA
Temperature	10/26/21 13:41	10/26/21 13:41			20.20	C			FA
Turbidity	10/26/21 13:41	10/26/21 13:41			1.78	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: WMWBARAP
Sample Date: 10/26/21 13:45
Customer ID:
Delivery Date: 10/27/21 16:26

Description: Barry Ash Pond - MW-23H

Laboratory ID Number: BB19837

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB19837	Beryllium, Total	mg/L	0.0000188	0.000880	0.100	0.0997	0.102	0.100	0.0850 to 0.115	99.7	70.0 to 130	2.28	20.0
BB19839	Manganese, Dissolved	mg/L	0.0000140	0.000147	0.100	0.852	0.841	0.103	0.0850 to 0.115	56.0	70.0 to 130	1.30	20.0
BB19837	Sodium, Total	mg/L	0.00187	0.0660	5.00	27.1	27.1	5.08	4.25 to 5.75	110	70.0 to 130	0.00	20.0
BB19837	Manganese, Total	mg/L	0.0000162	0.000147	0.100	1.26	1.28	0.104	0.0850 to 0.115	90.0	70.0 to 130	1.57	20.0
BB19837	Lead, Total	mg/L	0.0000023	0.000147	0.100	0.104	0.112	0.103	0.0850 to 0.115	104	70.0 to 130	7.41	20.0
BB19837	Boron, Total	mg/L	0.000691	0.0650	1.00	1.09	1.08	1.02	0.850 to 1.15	102	70.0 to 130	0.922	20.0
BB19837	Potassium, Total	mg/L	0.0260	0.367	10.0	11.0	10.9	9.89	8.50 to 11.5	98.1	70.0 to 130	0.913	20.0
BB19837	Mercury, Total by CVAA	mg/L	-2.000E-05	0.000500	0.004	0.00393	0.00395	0.00391	0.00340 to 0.00460	98.2	70.0 to 130	0.508	20.0
BB19837	Lithium, Total	mg/L	-2.980E-06	0.0154	0.200	0.210	0.208	0.197	0.170 to 0.230	105	70.0 to 130	0.957	20.0
BB19837	Cobalt, Total	mg/L	0.0000032	0.000147	0.100	0.108	0.108	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BB19837	Arsenic, Total	mg/L	0.0000075	0.000147	0.100	0.114	0.115	0.105	0.0850 to 0.115	106	70.0 to 130	0.873	20.0
BB19837	Antimony, Total	mg/L	0.000130	0.00100	0.100	0.101	0.103	0.0934	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BB19837	Chromium, Total	mg/L	-0.0000132	0.000440	0.100	0.0988	0.100	0.100	0.0850 to 0.115	98.1	70.0 to 130	1.21	20.0
BB19839	Iron, Dissolved	mg/L	5.970E-05	0.0176	0.2	45.8	47.6	0.202	0.170 to 0.230	-900	70.0 to 130	3.85	20.0
BB19837	Barium, Total	mg/L	0.0000134	0.000200	0.100	0.312	0.313	0.0991	0.0850 to 0.115	124	70.0 to 130	0.320	20.0
BB19837	Cadmium, Total	mg/L	0.000004	0.000147	0.100	0.0986	0.105	0.100	0.0850 to 0.115	98.6	70.0 to 130	6.29	20.0
BB19837	Magnesium, Total	mg/L	-5.630E-05	0.0462	5.00	13.0	12.9	5.11	4.25 to 5.75	103	70.0 to 130	0.772	20.0
BB19837	Thallium, Total	mg/L	0.0000098	0.000147	0.100	0.0957	0.102	0.0963	0.0850 to 0.115	95.7	70.0 to 130	6.37	20.0
BB19837	Selenium, Total	mg/L	0.000055	0.00100	0.100	0.106	0.110	0.103	0.0850 to 0.115	106	70.0 to 130	3.70	20.0
BB19837	Molybdenum, Total	mg/L	0.0000158	0.000147	0.100	0.104	0.109	0.101	0.0850 to 0.115	104	70.0 to 130	4.69	20.0
BB19837	Calcium, Total	mg/L	0.00195	0.152	5.00	34.5	34.3	5.09	4.25 to 5.75	102	70.0 to 130	0.581	20.0
BB19837	Iron, Total	mg/L	8.480E-05	0.0176	0.2	71.5	70.5	0.205	0.170 to 0.230	100	70.0 to 130	1.41	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: WMWBARAP
Sample Date: 10/26/21 13:45
Customer ID:
Delivery Date: 10/27/21 16:26

Description: Barry Ash Pond - MW-23H

Laboratory ID Number: BB19837

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BB19849	Solids, Dissolved	mg/L	0.0000	25.0			274	51.0	40.0 to 60.0			2.17	10.0
BB19849	Alkalinity, Total as CaCO3	mg/L					152	48.5	45.0 to 55.0			0.660	10.0
BB19837	Fluoride	mg/L	-0.00421	0.100	2.50	2.63	0.0669	2.52	2.25 to 2.75	102	80.0 to 120	5.81	20.0
BB19837	Chloride	mg/L	0.0107	1.00	12.5	18.3	5.63	10.1	9.00 to 11.0	101	80.0 to 120	0.177	20.0
BB19837	Sulfate	mg/L	-0.148	1.00	20.0	44.9	29.3	21.1	18.0 to 22.0	77.0	80.0 to 120	0.680	20.0

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-23V

Location Code: WMWBARAP
Collected: 10/26/21 14:32
Customer ID:
Submittal Date: 10/27/21 16:26

Laboratory ID Number: BB19838

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	11/1/21 08:14	11/2/21 10:59		1.015	0.306	mg/L	0.030000	0.1015	
* Calcium, Total	11/1/21 08:14	11/2/21 10:59		1.015	0.837	mg/L	0.070035	0.406	
* Iron, Total	11/1/21 08:14	11/2/21 10:59		1.015	0.516	mg/L	0.008120	0.0406	
* Lithium, Total	11/1/21 08:14	11/2/21 10:59		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/1/21 08:14	11/2/21 10:59		1.015	0.528	mg/L	0.021315	0.406	
* Sodium, Total	11/1/21 08:14	11/2/21 13:21		50.75	149	mg/L	1.5225	20.3	
Analytical Method: EPA 200.7			Analyst: RDA						
* Iron, Dissolved	11/1/21 08:38	11/3/21 10:12		1.015	0.333	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8			Analyst: ABB		Preparation Method: EPA 1638				
* Antimony, Total	10/29/21 07:26	10/29/21 16:24		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/29/21 07:26	10/29/21 16:24		1.015	0.00119	mg/L	0.000068	0.000203	
* Barium, Total	10/29/21 07:26	10/29/21 16:24		1.015	0.00766	mg/L	0.000102	0.000203	
* Beryllium, Total	10/29/21 07:26	10/29/21 16:24		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/29/21 07:26	10/29/21 16:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/29/21 07:26	10/29/21 16:24		1.015	0.000605	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/29/21 07:26	10/29/21 16:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/29/21 07:26	10/29/21 16:24		1.015	0.0000998	mg/L	0.000068	0.000203	J
* Molybdenum, Total	10/29/21 07:26	10/29/21 16:24		1.015	0.00124	mg/L	0.000068	0.000203	
* Potassium, Total	10/29/21 07:26	10/29/21 16:24		1.015	1.57	mg/L	0.169505	0.5075	
* Manganese, Total	10/29/21 07:26	10/29/21 16:24		1.015	0.0245	mg/L	0.000068	0.000203	
* Selenium, Total	10/29/21 07:26	10/29/21 16:24		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/29/21 07:26	10/29/21 16:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8			Analyst: DLJ						
* Manganese, Dissolved	10/28/21 14:52	10/28/21 16:09		1.015	0.0225	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1			Analyst: CRB						
* Mercury, Total by CVAA	10/28/21 11:06	10/28/21 16:53		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B			Analyst: JAG						
Alkalinity, Total as CaCO3	11/3/21 14:04	11/3/21 15:27		1	123	mg/L		0.1	
Analytical Method: SM 2540C			Analyst: CNJ						
* Solids, Dissolved	10/29/21 11:46	11/1/21 13:36		1	362	mg/L		25	

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

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-23V

Location Code: WMWBARAP
Collected: 10/26/21 14:32
Customer ID:
Submittal Date: 10/27/21 16:26

Laboratory ID Number: BB19838

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	11/3/21 14:04	11/3/21 15:27		1	121	mg/L			
Carbonate Alkalinity, (calc.)	11/3/21 14:04	11/3/21 15:27		1	2.02	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	11/2/21 11:40	11/2/21 11:40		10	124	mg/L	5.00	10	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/3/21 11:08	11/3/21 11:08		1	0.445	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/28/21 11:28	10/28/21 11:28		1	4.23	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	10/26/21 14:30	10/26/21 14:30			685.37	uS/cm			FA
pH	10/26/21 14:30	10/26/21 14:30			8.31	SU			FA
Temperature	10/26/21 14:30	10/26/21 14:30			20.92	C			FA
Turbidity	10/26/21 14:30	10/26/21 14:30			2.74	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: WMWBARAP
Sample Date: 10/26/21 14:32
Customer ID:
Delivery Date: 10/27/21 16:26

Description: Barry Ash Pond - MW-23V

Laboratory ID Number: BB19838

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB19847	Lead, Total	mg/L	0.000023	0.000147	0.100	0.104	0.104	0.103	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BB19847	Arsenic, Total	mg/L	0.0000075	0.000147	0.100	0.121	0.122	0.105	0.0850 to 0.115	102	70.0 to 130	0.823	20.0
BB19847	Lithium, Total	mg/L	-2.980E-06	0.0154	0.200	0.222	0.222	0.197	0.170 to 0.230	105	70.0 to 130	0.00	20.0
BB19847	Selenium, Total	mg/L	0.000055	0.00100	0.100	0.0999	0.100	0.103	0.0850 to 0.115	99.9	70.0 to 130	0.100	20.0
BB19847	Cadmium, Total	mg/L	0.000004	0.000147	0.100	0.103	0.100	0.100	0.0850 to 0.115	103	70.0 to 130	2.96	20.0
BB19847	Manganese, Total	mg/L	0.0000162	0.000147	0.100	0.825	0.840	0.104	0.0850 to 0.115	105	70.0 to 130	1.80	20.0
BB19847	Antimony, Total	mg/L	0.000130	0.00100	0.100	0.0960	0.0970	0.0934	0.0850 to 0.115	96.0	70.0 to 130	1.04	20.0
BB19847	Mercury, Total by CVAA	mg/L	-2.000E-05	0.000500	0.004	0.00394	0.00398	0.0038	0.00340 to 0.00460	98.5	70.0 to 130	1.01	20.0
BB19839	Manganese, Dissolved	mg/L	0.0000140	0.000147	0.100	0.852	0.841	0.103	0.0850 to 0.115	56.0	70.0 to 130	1.30	20.0
BB19847	Magnesium, Total	mg/L	-5.630E-05	0.0462	5.00	9.97	10.0	5.11	4.25 to 5.75	102	70.0 to 130	0.300	20.0
BB19847	Molybdenum, Total	mg/L	0.0000158	0.000147	0.100	0.0988	0.0985	0.101	0.0850 to 0.115	96.7	70.0 to 130	0.304	20.0
BB19847	Cobalt, Total	mg/L	0.0000032	0.000147	0.100	0.143	0.143	0.104	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BB19847	Iron, Total	mg/L	8.480E-05	0.0176	0.2	100	99.3	0.205	0.170 to 0.230	350	70.0 to 130	0.702	20.0
BB19847	Chromium, Total	mg/L	-0.0000132	0.000440	0.100	0.102	0.104	0.100	0.0850 to 0.115	101	70.0 to 130	1.94	20.0
BB19847	Sodium, Total	mg/L	0.00187	0.0660	5.00	44.9	44.7	5.08	4.25 to 5.75	122	70.0 to 130	0.446	20.0
BB19847	Calcium, Total	mg/L	0.00195	0.152	5.00	11.6	11.7	5.09	4.25 to 5.75	103	70.0 to 130	0.858	20.0
BB19847	Beryllium, Total	mg/L	0.0000188	0.000880	0.100	0.0967	0.0922	0.100	0.0850 to 0.115	96.7	70.0 to 130	4.76	20.0
BB19847	Potassium, Total	mg/L	0.0260	0.367	10.0	13.5	13.6	9.89	8.50 to 11.5	95.3	70.0 to 130	0.738	20.0
BB19847	Barium, Total	mg/L	0.0000134	0.000200	0.100	0.170	0.176	0.0991	0.0850 to 0.115	91.6	70.0 to 130	3.47	20.0
BB19847	Boron, Total	mg/L	0.000691	0.0650	1.00	1.10	1.11	1.02	0.850 to 1.15	100	70.0 to 130	0.905	20.0
BB19847	Thallium, Total	mg/L	0.0000098	0.000147	0.100	0.0998	0.100	0.0963	0.0850 to 0.115	99.8	70.0 to 130	0.200	20.0
BB19839	Iron, Dissolved	mg/L	5.970E-05	0.0176	0.2	45.8	47.6	0.202	0.170 to 0.230	-900	70.0 to 130	3.85	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: WMWBARAP
Sample Date: 10/26/21 14:32
Customer ID:
Delivery Date: 10/27/21 16:26

Description: Barry Ash Pond - MW-23V

Laboratory ID Number: BB19838

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB19847	Chloride	mg/L	0.00309	1.00	100	187	84.3	10.2	9.00 to 11.0	102	80.0 to 120	1.30	20.0
BB19847	Sulfate	mg/L	-0.272	1.00	20.0	44.8	28.2	21.3	18.0 to 22.0	92.0	80.0 to 120	6.59	20.0
BB19849	Solids, Dissolved	mg/L	0.0000	25.0			274	51.0	40.0 to 60.0			2.17	10.0
BB19849	Alkalinity, Total as CaCO3	mg/L					152	48.5	45.0 to 55.0			0.660	10.0
BB19847	Fluoride	mg/L	-0.0117	0.100	2.50	2.75	0.190	2.51	2.25 to 2.75	103	80.0 to 120	10.5	20.0

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-13V

Location Code: WMWBARAP
Collected: 10/26/21 15:41
Customer ID:
Submittal Date: 10/27/21 16:26

Laboratory ID Number: BB19839

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	11/1/21 08:14	11/2/21 11:02		1.015	0.0888	mg/L	0.030000	0.1015	J
* Calcium, Total	11/1/21 08:14	11/2/21 11:02		1.015	11.3	mg/L	0.070035	0.406	
* Iron, Total	11/1/21 08:14	11/2/21 13:24		50.75	48.9	mg/L	0.40600	2.03	
* Lithium, Total	11/1/21 08:14	11/2/21 11:02		1.015	0.0484	mg/L	0.007105	0.01999956	
* Magnesium, Total	11/1/21 08:14	11/2/21 11:02		1.015	6.46	mg/L	0.021315	0.406	
* Sodium, Total	11/1/21 08:14	11/2/21 13:24		50.75	74.8	mg/L	1.5225	20.3	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	11/1/21 08:38	11/3/21 10:15		50.75	47.6	mg/L	0.40600	2.03	RA
Analytical Method: EPA 200.8		Analyst: ABB			Preparation Method: EPA 1638				
* Antimony, Total	10/29/21 07:26	10/29/21 16:28		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/29/21 07:26	10/29/21 16:28		1.015	0.0103	mg/L	0.000068	0.000203	
* Barium, Total	10/29/21 07:26	10/29/21 16:28		1.015	0.0827	mg/L	0.000102	0.000203	
* Beryllium, Total	10/29/21 07:26	10/29/21 16:28		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/29/21 07:26	10/29/21 16:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/29/21 07:26	10/29/21 16:28		1.015	0.00606	mg/L	0.000203	0.001015	
* Cobalt, Total	10/29/21 07:26	10/29/21 16:28		1.015	0.00114	mg/L	0.000068	0.000203	
* Lead, Total	10/29/21 07:26	10/29/21 16:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/29/21 07:26	10/29/21 16:28		1.015	0.00135	mg/L	0.000068	0.000203	
* Potassium, Total	10/29/21 07:26	10/29/21 16:28		1.015	21.0	mg/L	0.169505	0.5075	
* Manganese, Total	10/29/21 07:26	10/29/21 16:28		1.015	0.771	mg/L	0.000068	0.000203	
* Selenium, Total	10/29/21 07:26	10/29/21 16:28		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/29/21 07:26	10/29/21 16:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	10/28/21 14:52	10/28/21 16:13		1.015	0.796	mg/L	0.000068	0.000203	RA
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	10/28/21 11:06	10/28/21 16:57		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	11/3/21 14:04	11/3/21 15:27		1	163	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/29/21 11:46	11/1/21 13:36		1	355	mg/L		25	

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

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-13V

Location Code: WMWBARAP
Collected: 10/26/21 15:41
Customer ID:
Submittal Date: 10/27/21 16:26

Laboratory ID Number: BB19839

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	11/3/21 14:04	11/3/21 15:27		1	163	mg/L			
Carbonate Alkalinity, (calc.)	11/3/21 14:04	11/3/21 15:27		1	0.06	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	11/2/21 11:41	11/2/21 11:41		8	47.7	mg/L	4.00	8	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/3/21 11:09	11/3/21 11:09		1	0.0960	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/28/21 11:43	10/28/21 11:43		2	47.3	mg/L	1.00	2	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	10/26/21 15:38	10/26/21 15:38			600.49	uS/cm			FA
pH	10/26/21 15:38	10/26/21 15:38			6.81	SU			FA
Temperature	10/26/21 15:38	10/26/21 15:38			20.92	C			FA
Turbidity	10/26/21 15:38	10/26/21 15:38			2.77	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/26/21 15:41
Customer ID:
Delivery Date: 10/27/21 16:26

Description: Barry Ash Pond - MW-13V

Laboratory ID Number: BB19839

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB19847	Antimony, Total	mg/L	0.000130	0.00100	0.100	0.0960	0.0970	0.0934	0.0850 to 0.115	96.0	70.0 to 130	1.04	20.0
BB19847	Mercury, Total by CVAA	mg/L	-2.000E-05	0.000500	0.004	0.00394	0.00398	0.0038	0.00340 to 0.00460	98.5	70.0 to 130	1.01	20.0
BB19839	Manganese, Dissolved	mg/L	0.0000140	0.000147	0.100	0.852	0.841	0.103	0.0850 to 0.115	56.0	70.0 to 130	1.30	20.0
BB19847	Magnesium, Total	mg/L	-5.630E-05	0.0462	5.00	9.97	10.0	5.11	4.25 to 5.75	102	70.0 to 130	0.300	20.0
BB19847	Molybdenum, Total	mg/L	0.0000158	0.000147	0.100	0.0988	0.0985	0.101	0.0850 to 0.115	96.7	70.0 to 130	0.304	20.0
BB19847	Selenium, Total	mg/L	0.000055	0.00100	0.100	0.0999	0.100	0.103	0.0850 to 0.115	99.9	70.0 to 130	0.100	20.0
BB19847	Cadmium, Total	mg/L	0.000004	0.000147	0.100	0.103	0.100	0.100	0.0850 to 0.115	103	70.0 to 130	2.96	20.0
BB19847	Manganese, Total	mg/L	0.0000162	0.000147	0.100	0.825	0.840	0.104	0.0850 to 0.115	105	70.0 to 130	1.80	20.0
BB19847	Lead, Total	mg/L	0.0000023	0.000147	0.100	0.104	0.104	0.103	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BB19847	Arsenic, Total	mg/L	0.0000075	0.000147	0.100	0.121	0.122	0.105	0.0850 to 0.115	102	70.0 to 130	0.823	20.0
BB19847	Lithium, Total	mg/L	-2.980E-06	0.0154	0.200	0.222	0.222	0.197	0.170 to 0.230	105	70.0 to 130	0.00	20.0
BB19847	Cobalt, Total	mg/L	0.0000032	0.000147	0.100	0.143	0.143	0.104	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BB19847	Boron, Total	mg/L	0.000691	0.0650	1.00	1.10	1.11	1.02	0.850 to 1.15	100	70.0 to 130	0.905	20.0
BB19847	Thallium, Total	mg/L	0.0000098	0.000147	0.100	0.0998	0.100	0.0963	0.0850 to 0.115	99.8	70.0 to 130	0.200	20.0
BB19839	Iron, Dissolved	mg/L	5.970E-05	0.0176	0.2	45.8	47.6	0.202	0.170 to 0.230	-900	70.0 to 130	3.85	20.0
BB19847	Calcium, Total	mg/L	0.00195	0.152	5.00	11.6	11.7	5.09	4.25 to 5.75	103	70.0 to 130	0.858	20.0
BB19847	Beryllium, Total	mg/L	0.0000188	0.000880	0.100	0.0967	0.0922	0.100	0.0850 to 0.115	96.7	70.0 to 130	4.76	20.0
BB19847	Potassium, Total	mg/L	0.0260	0.367	10.0	13.5	13.6	9.89	8.50 to 11.5	95.3	70.0 to 130	0.738	20.0
BB19847	Barium, Total	mg/L	0.0000134	0.000200	0.100	0.170	0.176	0.0991	0.0850 to 0.115	91.6	70.0 to 130	3.47	20.0
BB19847	Iron, Total	mg/L	8.480E-05	0.0176	0.2	100	99.3	0.205	0.170 to 0.230	350	70.0 to 130	0.702	20.0
BB19847	Chromium, Total	mg/L	-0.0000132	0.000440	0.100	0.102	0.104	0.100	0.0850 to 0.115	101	70.0 to 130	1.94	20.0
BB19847	Sodium, Total	mg/L	0.00187	0.0660	5.00	44.9	44.7	5.08	4.25 to 5.75	122	70.0 to 130	0.446	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: WMWBARAP
Sample Date: 10/26/21 15:41
Customer ID:
Delivery Date: 10/27/21 16:26

Description: Barry Ash Pond - MW-13V

Laboratory ID Number: BB19839

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB19849	Alkalinity, Total as CaCO3	mg/L					152	48.5	45.0 to 55.0			0.660	10.0
BB19847	Fluoride	mg/L	-0.0117	0.100	2.50	2.75	0.190	2.51	2.25 to 2.75	103	80.0 to 120	10.5	20.0
BB19847	Chloride	mg/L	0.00309	1.00	100	187	84.3	10.2	9.00 to 11.0	102	80.0 to 120	1.30	20.0
BB19847	Sulfate	mg/L	-0.272	1.00	20.0	44.8	28.2	21.3	18.0 to 22.0	92.0	80.0 to 120	6.59	20.0
BB19849	Solids, Dissolved	mg/L	0.0000	25.0			274	51.0	40.0 to 60.0			2.17	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: Barry Ash Pond - MW-17H

Location Code: WMWBARAP
Collected: 10/25/21 13:43
Customer ID:
Submittal Date: 10/27/21 16:26

Laboratory ID Number: BB19840

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	11/1/21 08:14	11/2/21 11:06		1.015	0.0887	mg/L	0.030000	0.1015	J
* Calcium, Total	11/1/21 08:14	11/2/21 11:06		1.015	10.5	mg/L	0.070035	0.406	
* Iron, Total	11/1/21 08:14	11/2/21 13:27		50.75	97.8	mg/L	0.40600	2.03	
* Lithium, Total	11/1/21 08:14	11/2/21 11:06		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/1/21 08:14	11/2/21 11:06		1.015	4.82	mg/L	0.021315	0.406	
* Sodium, Total	11/1/21 08:14	11/2/21 11:06		1.015	19.6	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	11/1/21 08:38	11/3/21 10:32		50.75	94.9	mg/L	0.40600	2.03	
Analytical Method: EPA 200.8		Analyst: ABB			Preparation Method: EPA 1638				
* Antimony, Total	10/29/21 07:26	10/29/21 16:32		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/29/21 07:26	10/29/21 16:32		1.015	0.0373	mg/L	0.000068	0.000203	
* Barium, Total	10/29/21 07:26	10/29/21 16:32		1.015	0.0953	mg/L	0.000102	0.000203	
* Beryllium, Total	10/29/21 07:26	10/29/21 16:32		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/29/21 07:26	10/29/21 16:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/29/21 07:26	10/29/21 16:32		1.015	0.000597	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/29/21 07:26	10/29/21 16:32		1.015	0.00371	mg/L	0.000068	0.000203	
* Lead, Total	10/29/21 07:26	10/29/21 16:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/29/21 07:26	10/29/21 16:32		1.015	0.000779	mg/L	0.000068	0.000203	
* Potassium, Total	10/29/21 07:26	10/29/21 16:32		1.015	1.21	mg/L	0.169505	0.5075	
* Manganese, Total	10/29/21 07:26	10/29/21 16:32		1.015	0.473	mg/L	0.000068	0.000203	
* Selenium, Total	10/29/21 07:26	10/29/21 16:32		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/29/21 07:26	10/29/21 16:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	10/28/21 14:52	10/28/21 16:34		1.015	0.488	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	10/28/21 11:06	10/28/21 17:01		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	11/3/21 14:04	11/3/21 15:27		1	181	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/28/21 10:30	10/29/21 13:10		1	225	mg/L		25	

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

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-17H

Location Code: WMWBARAP
Collected: 10/25/21 13:43
Customer ID:
Submittal Date: 10/27/21 16:26

Laboratory ID Number: BB19840

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	11/3/21 14:04	11/3/21 15:27		1	181	mg/L			
Carbonate Alkalinity, (calc.)	11/3/21 14:04	11/3/21 15:27		1	0.06	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	11/2/21 11:42	11/2/21 11:42		1	18.4	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/3/21 11:11	11/3/21 11:11		1	0.162	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/28/21 11:32	10/28/21 11:32		1	24.5	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	10/25/21 13:39	10/25/21 13:39			449.86	uS/cm			FA
pH	10/25/21 13:39	10/25/21 13:39			6.48	SU			FA
Temperature	10/25/21 13:39	10/25/21 13:39			21.82	C			FA
Turbidity	10/25/21 13:39	10/25/21 13:39			5.61	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/25/21 13:43
Customer ID:
Delivery Date: 10/27/21 16:26

Description: Barry Ash Pond - MW-17H

Laboratory ID Number: BB19840

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BB19847	Magnesium, Total	mg/L	-5.630E-05	0.0462	5.00	9.97	10.0	5.11	4.25 to 5.75	102	70.0 to 130	0.300	20.0
BB19847	Molybdenum, Total	mg/L	0.0000158	0.000147	0.100	0.0988	0.0985	0.101	0.0850 to 0.115	96.7	70.0 to 130	0.304	20.0
BB19847	Boron, Total	mg/L	0.000691	0.0650	1.00	1.10	1.11	1.02	0.850 to 1.15	100	70.0 to 130	0.905	20.0
BB19847	Thallium, Total	mg/L	0.0000098	0.000147	0.100	0.0998	0.100	0.0963	0.0850 to 0.115	99.8	70.0 to 130	0.200	20.0
BB19847	Lead, Total	mg/L	0.0000023	0.000147	0.100	0.104	0.104	0.103	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BB19847	Arsenic, Total	mg/L	0.0000075	0.000147	0.100	0.121	0.122	0.105	0.0850 to 0.115	102	70.0 to 130	0.823	20.0
BB19847	Lithium, Total	mg/L	-2.980E-06	0.0154	0.200	0.222	0.222	0.197	0.170 to 0.230	105	70.0 to 130	0.00	20.0
BB19847	Iron, Total	mg/L	8.480E-05	0.0176	0.2	100	99.3	0.205	0.170 to 0.230	350	70.0 to 130	0.702	20.0
BB19847	Chromium, Total	mg/L	-0.0000132	0.000440	0.100	0.102	0.104	0.100	0.0850 to 0.115	101	70.0 to 130	1.94	20.0
BB19847	Sodium, Total	mg/L	0.00187	0.0660	5.00	44.9	44.7	5.08	4.25 to 5.75	122	70.0 to 130	0.446	20.0
BB19847	Selenium, Total	mg/L	0.000055	0.00100	0.100	0.0999	0.100	0.103	0.0850 to 0.115	99.9	70.0 to 130	0.100	20.0
BB19847	Cadmium, Total	mg/L	0.000004	0.000147	0.100	0.103	0.100	0.100	0.0850 to 0.115	103	70.0 to 130	2.96	20.0
BB19847	Manganese, Total	mg/L	0.0000162	0.000147	0.100	0.825	0.840	0.104	0.0850 to 0.115	105	70.0 to 130	1.80	20.0
BB19847	Antimony, Total	mg/L	0.000130	0.00100	0.100	0.0960	0.0970	0.0934	0.0850 to 0.115	96.0	70.0 to 130	1.04	20.0
BB19847	Mercury, Total by CVAA	mg/L	-2.000E-05	0.000500	0.004	0.00394	0.00398	0.0038	0.00340 to 0.00460	98.5	70.0 to 130	1.01	20.0
BB19847	Calcium, Total	mg/L	0.00195	0.152	5.00	11.6	11.7	5.09	4.25 to 5.75	103	70.0 to 130	0.858	20.0
BB19847	Beryllium, Total	mg/L	0.0000188	0.000880	0.100	0.0967	0.0922	0.100	0.0850 to 0.115	96.7	70.0 to 130	4.76	20.0
BB19847	Potassium, Total	mg/L	0.0260	0.367	10.0	13.5	13.6	9.89	8.50 to 11.5	95.3	70.0 to 130	0.738	20.0
BB19847	Barium, Total	mg/L	0.0000134	0.000200	0.100	0.170	0.176	0.0991	0.0850 to 0.115	91.6	70.0 to 130	3.47	20.0
BB19847	Cobalt, Total	mg/L	0.0000032	0.000147	0.100	0.143	0.143	0.104	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BB19849	Iron, Dissolved	mg/L	5.970E-05	0.0176	0.2	31.2	31.3	0.202	0.170 to 0.230	-100	70.0 to 130	0.320	20.0
BB19849	Manganese, Dissolved	mg/L	0.0000140	0.000147	0.100	0.568	0.557	0.103	0.0850 to 0.115	78.0	70.0 to 130	1.96	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: WMWBARAP
Sample Date: 10/25/21 13:43
Customer ID:
Delivery Date: 10/27/21 16:26

Description: Barry Ash Pond - MW-17H

Laboratory ID Number: BB19840

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB19845	Solids, Dissolved	mg/L	0.0000	25.0			205	45.0	40.0 to 60.0			2.50	10.0
BB19847	Chloride	mg/L	0.00309	1.00	100	187	84.3	10.2	9.00 to 11.0	102	80.0 to 120	1.30	20.0
BB19849	Alkalinity, Total as CaCO3	mg/L					152	48.5	45.0 to 55.0			0.660	10.0
BB19847	Fluoride	mg/L	-0.0117	0.100	2.50	2.75	0.190	2.51	2.25 to 2.75	103	80.0 to 120	10.5	20.0
BB19847	Sulfate	mg/L	-0.272	1.00	20.0	44.8	28.2	21.3	18.0 to 22.0	92.0	80.0 to 120	6.59	20.0

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-17H DUP

Location Code: WMWBARAP
Collected: 10/25/21 13:43
Customer ID:
Submittal Date: 10/27/21 16:26

Laboratory ID Number: BB19841

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	11/1/21 08:14	11/2/21 11:09		1.015	0.0885	mg/L	0.030000	0.1015	J
* Calcium, Total	11/1/21 08:14	11/2/21 11:09		1.015	10.4	mg/L	0.070035	0.406	
* Iron, Total	11/1/21 08:14	11/2/21 13:31		50.75	98.2	mg/L	0.40600	2.03	
* Lithium, Total	11/1/21 08:14	11/2/21 11:09		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/1/21 08:14	11/2/21 11:09		1.015	4.80	mg/L	0.021315	0.406	
* Sodium, Total	11/1/21 08:14	11/2/21 11:09		1.015	19.5	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	11/1/21 08:38	11/3/21 10:35		50.75	97.0	mg/L	0.40600	2.03	
Analytical Method: EPA 200.8		Analyst: ABB			Preparation Method: EPA 1638				
* Antimony, Total	10/29/21 07:26	10/29/21 16:35		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/29/21 07:26	10/29/21 16:35		1.015	0.0364	mg/L	0.000068	0.000203	
* Barium, Total	10/29/21 07:26	10/29/21 16:35		1.015	0.0974	mg/L	0.000102	0.000203	
* Beryllium, Total	10/29/21 07:26	10/29/21 16:35		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/29/21 07:26	10/29/21 16:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/29/21 07:26	10/29/21 16:35		1.015	0.000710	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/29/21 07:26	10/29/21 16:35		1.015	0.00369	mg/L	0.000068	0.000203	
* Lead, Total	10/29/21 07:26	10/29/21 16:35		1.015	0.000099	mg/L	0.000068	0.000203	J
* Molybdenum, Total	10/29/21 07:26	10/29/21 16:35		1.015	0.000842	mg/L	0.000068	0.000203	
* Potassium, Total	10/29/21 07:26	10/29/21 16:35		1.015	1.21	mg/L	0.169505	0.5075	
* Manganese, Total	10/29/21 07:26	10/29/21 16:35		1.015	0.477	mg/L	0.000068	0.000203	
* Selenium, Total	10/29/21 07:26	10/29/21 16:35		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/29/21 07:26	10/29/21 16:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	10/28/21 14:52	10/28/21 16:38		1.015	0.472	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	10/28/21 11:06	10/28/21 17:05		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	11/3/21 14:04	11/3/21 15:27		1	150	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/28/21 10:30	10/29/21 13:10		1	219	mg/L		25	

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

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-17H DUP

Location Code: WMWBARAP
Collected: 10/25/21 13:43
Customer ID:
Submittal Date: 10/27/21 16:26

Laboratory ID Number: BB19841

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	11/3/21 14:04	11/3/21 15:27		1	150	mg/L			
Carbonate Alkalinity, (calc.)	11/3/21 14:04	11/3/21 15:27		1	0.05	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	11/2/21 11:44	11/2/21 11:44		1	19.2	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/3/21 11:12	11/3/21 11:12		1	0.182	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/28/21 11:31	10/28/21 11:31		1	20.3	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	10/25/21 13:39	10/25/21 13:39			449.86	uS/cm			FA
pH	10/25/21 13:39	10/25/21 13:39			6.48	SU			FA
Temperature	10/25/21 13:39	10/25/21 13:39			21.82	C			FA
Turbidity	10/25/21 13:39	10/25/21 13:39			5.61	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/25/21 13:43
Customer ID:
Delivery Date: 10/27/21 16:26

Description: Barry Ash Pond - MW-17H DUP

Laboratory ID Number: BB19841

Sample	Analysis	Units	MB				Standard		Rec		Prec	Limit	
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec			Limit
BB19847	Magnesium, Total	mg/L	-5.630E-05	0.0462	5.00	9.97	10.0	5.11	4.25 to 5.75	102	70.0 to 130	0.300	20.0
BB19847	Molybdenum, Total	mg/L	0.0000158	0.000147	0.100	0.0988	0.0985	0.101	0.0850 to 0.115	96.7	70.0 to 130	0.304	20.0
BB19847	Antimony, Total	mg/L	0.000130	0.00100	0.100	0.0960	0.0970	0.0934	0.0850 to 0.115	96.0	70.0 to 130	1.04	20.0
BB19847	Mercury, Total by CVAA	mg/L	-2.000E-05	0.000500	0.004	0.00394	0.00398	0.0038	0.00340 to 0.00460	98.5	70.0 to 130	1.01	20.0
BB19847	Lead, Total	mg/L	0.0000023	0.000147	0.100	0.104	0.104	0.103	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BB19847	Arsenic, Total	mg/L	0.0000075	0.000147	0.100	0.121	0.122	0.105	0.0850 to 0.115	102	70.0 to 130	0.823	20.0
BB19847	Lithium, Total	mg/L	-2.980E-06	0.0154	0.200	0.222	0.222	0.197	0.170 to 0.230	105	70.0 to 130	0.00	20.0
BB19847	Iron, Total	mg/L	8.480E-05	0.0176	0.2	100	99.3	0.205	0.170 to 0.230	350	70.0 to 130	0.702	20.0
BB19847	Chromium, Total	mg/L	-0.0000132	0.000440	0.100	0.102	0.104	0.100	0.0850 to 0.115	101	70.0 to 130	1.94	20.0
BB19847	Sodium, Total	mg/L	0.00187	0.0660	5.00	44.9	44.7	5.08	4.25 to 5.75	122	70.0 to 130	0.446	20.0
BB19847	Boron, Total	mg/L	0.000691	0.0650	1.00	1.10	1.11	1.02	0.850 to 1.15	100	70.0 to 130	0.905	20.0
BB19847	Thallium, Total	mg/L	0.0000098	0.000147	0.100	0.0998	0.100	0.0963	0.0850 to 0.115	99.8	70.0 to 130	0.200	20.0
BB19847	Cobalt, Total	mg/L	0.0000032	0.000147	0.100	0.143	0.143	0.104	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BB19849	Iron, Dissolved	mg/L	5.970E-05	0.0176	0.2	31.2	31.3	0.202	0.170 to 0.230	-100	70.0 to 130	0.320	20.0
BB19849	Manganese, Dissolved	mg/L	0.0000140	0.000147	0.100	0.568	0.557	0.103	0.0850 to 0.115	78.0	70.0 to 130	1.96	20.0
BB19847	Calcium, Total	mg/L	0.00195	0.152	5.00	11.6	11.7	5.09	4.25 to 5.75	103	70.0 to 130	0.858	20.0
BB19847	Beryllium, Total	mg/L	0.0000188	0.000880	0.100	0.0967	0.0922	0.100	0.0850 to 0.115	96.7	70.0 to 130	4.76	20.0
BB19847	Potassium, Total	mg/L	0.0260	0.367	10.0	13.5	13.6	9.89	8.50 to 11.5	95.3	70.0 to 130	0.738	20.0
BB19847	Barium, Total	mg/L	0.0000134	0.000200	0.100	0.170	0.176	0.0991	0.0850 to 0.115	91.6	70.0 to 130	3.47	20.0
BB19847	Selenium, Total	mg/L	0.000055	0.00100	0.100	0.0999	0.100	0.103	0.0850 to 0.115	99.9	70.0 to 130	0.100	20.0
BB19847	Cadmium, Total	mg/L	0.000004	0.000147	0.100	0.103	0.100	0.100	0.0850 to 0.115	103	70.0 to 130	2.96	20.0
BB19847	Manganese, Total	mg/L	0.0000162	0.000147	0.100	0.825	0.840	0.104	0.0850 to 0.115	105	70.0 to 130	1.80	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: WMWBARAP
Sample Date: 10/25/21 13:43
Customer ID:
Delivery Date: 10/27/21 16:26

Description: Barry Ash Pond - MW-17H DUP

Laboratory ID Number: BB19841

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB19847	Chloride	mg/L	0.00309	1.00	100	187	84.3	10.2	9.00 to 11.0	102	80.0 to 120	1.30	20.0
BB19845	Solids, Dissolved	mg/L	0.0000	25.0			205	45.0	40.0 to 60.0			2.50	10.0
BB19847	Sulfate	mg/L	-0.272	1.00	20.0	44.8	28.2	21.3	18.0 to 22.0	92.0	80.0 to 120	6.59	20.0
BB19849	Alkalinity, Total as CaCO3	mg/L					152	48.5	45.0 to 55.0			0.660	10.0
BB19847	Fluoride	mg/L	-0.0117	0.100	2.50	2.75	0.190	2.51	2.25 to 2.75	103	80.0 to 120	10.5	20.0

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-17V

Location Code: WMWBARAP
Collected: 10/25/21 14:55
Customer ID:
Submittal Date: 10/27/21 16:26

Laboratory ID Number: BB19842

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	11/1/21 08:14	11/2/21 11:12		1.015	0.113	mg/L	0.030000	0.1015	
* Calcium, Total	11/1/21 08:14	11/2/21 11:12		1.015	6.58	mg/L	0.070035	0.406	
* Iron, Total	11/1/21 08:14	11/2/21 11:12		1.015	0.259	mg/L	0.008120	0.0406	
* Lithium, Total	11/1/21 08:14	11/2/21 11:12		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/1/21 08:14	11/2/21 11:12		1.015	3.70	mg/L	0.021315	0.406	
* Sodium, Total	11/1/21 08:14	11/2/21 13:34		50.75	97.9	mg/L	1.5225	20.3	
Analytical Method: EPA 200.7			Analyst: RDA						
* Iron, Dissolved	11/1/21 08:38	11/3/21 10:39		1.015	0.211	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8			Analyst: ABB		Preparation Method: EPA 1638				
* Antimony, Total	10/29/21 07:26	10/29/21 16:39		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/29/21 07:26	10/29/21 16:39		1.015	0.00162	mg/L	0.000068	0.000203	
* Barium, Total	10/29/21 07:26	10/29/21 16:39		1.015	0.0928	mg/L	0.000102	0.000203	
* Beryllium, Total	10/29/21 07:26	10/29/21 16:39		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/29/21 07:26	10/29/21 16:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/29/21 07:26	10/29/21 16:39		1.015	0.000619	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/29/21 07:26	10/29/21 16:39		1.015	0.00915	mg/L	0.000068	0.000203	
* Lead, Total	10/29/21 07:26	10/29/21 16:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/29/21 07:26	10/29/21 16:39		1.015	0.000877	mg/L	0.000068	0.000203	
* Potassium, Total	10/29/21 07:26	10/29/21 16:39		1.015	1.92	mg/L	0.169505	0.5075	
* Manganese, Total	10/29/21 07:26	10/29/21 16:39		1.015	0.293	mg/L	0.000068	0.000203	
* Selenium, Total	10/29/21 07:26	10/29/21 16:39		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/29/21 07:26	10/29/21 16:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8			Analyst: DLJ						
* Manganese, Dissolved	10/28/21 14:52	10/28/21 16:42		1.015	0.285	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1			Analyst: CRB						
* Mercury, Total by CVAA	10/28/21 11:06	10/28/21 17:09		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B			Analyst: JAG						
Alkalinity, Total as CaCO3	11/3/21 14:04	11/3/21 15:27		1	78.8	mg/L		0.1	
Analytical Method: SM 2540C			Analyst: CNJ						
* Solids, Dissolved	10/28/21 10:30	10/29/21 13:10		1	280	mg/L		25	

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

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-17V

Location Code: WMWBARAP
Collected: 10/25/21 14:55
Customer ID:
Submittal Date: 10/27/21 16:26

Laboratory ID Number: BB19842

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	11/3/21 14:04	11/3/21 15:27		1	78.7	mg/L			
Carbonate Alkalinity, (calc.)	11/3/21 14:04	11/3/21 15:27		1	0.07	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	11/2/21 11:45	11/2/21 11:45		10	111	mg/L	5.00	10	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/3/21 11:13	11/3/21 11:13		1	0.172	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/28/21 11:34	10/28/21 11:34		1	11.0	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	10/25/21 14:52	10/25/21 14:52			549.65	uS/cm			FA
pH	10/25/21 14:52	10/25/21 14:52			6.53	SU			FA
Temperature	10/25/21 14:52	10/25/21 14:52			22.37	C			FA
Turbidity	10/25/21 14:52	10/25/21 14:52			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: WMWBARAP
Sample Date: 10/25/21 14:55
Customer ID:
Delivery Date: 10/27/21 16:26

Description: Barry Ash Pond - MW-17V

Laboratory ID Number: BB19842

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB19847	Selenium, Total	mg/L	0.000055	0.00100	0.100	0.0999	0.100	0.103	0.0850 to 0.115	99.9	70.0 to 130	0.100	20.0
BB19847	Cadmium, Total	mg/L	0.000004	0.000147	0.100	0.103	0.100	0.100	0.0850 to 0.115	103	70.0 to 130	2.96	20.0
BB19847	Manganese, Total	mg/L	0.0000162	0.000147	0.100	0.825	0.840	0.104	0.0850 to 0.115	105	70.0 to 130	1.80	20.0
BB19847	Boron, Total	mg/L	0.000691	0.0650	1.00	1.10	1.11	1.02	0.850 to 1.15	100	70.0 to 130	0.905	20.0
BB19847	Thallium, Total	mg/L	0.0000098	0.000147	0.100	0.0998	0.100	0.0963	0.0850 to 0.115	99.8	70.0 to 130	0.200	20.0
BB19847	Antimony, Total	mg/L	0.000130	0.00100	0.100	0.0960	0.0970	0.0934	0.0850 to 0.115	96.0	70.0 to 130	1.04	20.0
BB19847	Mercury, Total by CVAA	mg/L	-2.000E-05	0.000500	0.004	0.00394	0.00398	0.0038	0.00340 to 0.00460	98.5	70.0 to 130	1.01	20.0
BB19847	Lead, Total	mg/L	0.0000023	0.000147	0.100	0.104	0.104	0.103	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BB19847	Arsenic, Total	mg/L	0.0000075	0.000147	0.100	0.121	0.122	0.105	0.0850 to 0.115	102	70.0 to 130	0.823	20.0
BB19847	Lithium, Total	mg/L	-2.980E-06	0.0154	0.200	0.222	0.222	0.197	0.170 to 0.230	105	70.0 to 130	0.00	20.0
BB19847	Calcium, Total	mg/L	0.00195	0.152	5.00	11.6	11.7	5.09	4.25 to 5.75	103	70.0 to 130	0.858	20.0
BB19847	Beryllium, Total	mg/L	0.0000188	0.000880	0.100	0.0967	0.0922	0.100	0.0850 to 0.115	96.7	70.0 to 130	4.76	20.0
BB19847	Potassium, Total	mg/L	0.0260	0.367	10.0	13.5	13.6	9.89	8.50 to 11.5	95.3	70.0 to 130	0.738	20.0
BB19847	Barium, Total	mg/L	0.0000134	0.000200	0.100	0.170	0.176	0.0991	0.0850 to 0.115	91.6	70.0 to 130	3.47	20.0
BB19847	Iron, Total	mg/L	8.480E-05	0.0176	0.2	100	99.3	0.205	0.170 to 0.230	350	70.0 to 130	0.702	20.0
BB19847	Chromium, Total	mg/L	-0.0000132	0.000440	0.100	0.102	0.104	0.100	0.0850 to 0.115	101	70.0 to 130	1.94	20.0
BB19847	Sodium, Total	mg/L	0.00187	0.0660	5.00	44.9	44.7	5.08	4.25 to 5.75	122	70.0 to 130	0.446	20.0
BB19847	Cobalt, Total	mg/L	0.0000032	0.000147	0.100	0.143	0.143	0.104	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BB19849	Iron, Dissolved	mg/L	5.970E-05	0.0176	0.2	31.2	31.3	0.202	0.170 to 0.230	-100	70.0 to 130	0.320	20.0
BB19849	Manganese, Dissolved	mg/L	0.0000140	0.000147	0.100	0.568	0.557	0.103	0.0850 to 0.115	78.0	70.0 to 130	1.96	20.0
BB19847	Magnesium, Total	mg/L	-5.630E-05	0.0462	5.00	9.97	10.0	5.11	4.25 to 5.75	102	70.0 to 130	0.300	20.0
BB19847	Molybdenum, Total	mg/L	0.0000158	0.000147	0.100	0.0988	0.0985	0.101	0.0850 to 0.115	96.7	70.0 to 130	0.304	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: WMWBARAP
Sample Date: 10/25/21 14:55
Customer ID:
Delivery Date: 10/27/21 16:26

Description: Barry Ash Pond - MW-17V

Laboratory ID Number: BB19842

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB19845	Solids, Dissolved	mg/L	0.0000	25.0			205	45.0	40.0 to 60.0			2.50	10.0
BB19849	Alkalinity, Total as CaCO3	mg/L					152	48.5	45.0 to 55.0			0.660	10.0
BB19847	Fluoride	mg/L	-0.0117	0.100	2.50	2.75	0.190	2.51	2.25 to 2.75	103	80.0 to 120	10.5	20.0
BB19847	Sulfate	mg/L	-0.272	1.00	20.0	44.8	28.2	21.3	18.0 to 22.0	92.0	80.0 to 120	6.59	20.0
BB19847	Chloride	mg/L	0.00309	1.00	100	187	84.3	10.2	9.00 to 11.0	102	80.0 to 120	1.30	20.0

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-8

Location Code: WMWBARAP
Collected: 10/26/21 09:20
Customer ID:
Submittal Date: 10/27/21 16:26

Laboratory ID Number: BB19843

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	11/1/21 08:14	11/2/21 11:16		1.015	0.933	mg/L	0.030000	0.1015	
* Calcium, Total	11/1/21 08:14	11/2/21 11:16		1.015	33.5	mg/L	0.070035	0.406	
* Iron, Total	11/1/21 08:14	11/2/21 13:38		50.75	73.7	mg/L	0.40600	2.03	
* Lithium, Total	11/1/21 08:14	11/2/21 11:16		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/1/21 08:14	11/2/21 11:16		1.015	10.6	mg/L	0.021315	0.406	
* Sodium, Total	11/1/21 08:14	11/2/21 11:16		1.015	19.5	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA						
* Iron, Dissolved	11/1/21 08:38	11/3/21 10:42		50.75	74.6	mg/L	0.40600	2.03	
Analytical Method: EPA 200.8			Analyst: ABB		Preparation Method: EPA 1638				
* Antimony, Total	10/29/21 07:26	10/29/21 16:42		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/29/21 07:26	10/29/21 16:42		1.015	0.0668	mg/L	0.000068	0.000203	
* Barium, Total	10/29/21 07:26	10/29/21 16:42		1.015	0.136	mg/L	0.000102	0.000203	
* Beryllium, Total	10/29/21 07:26	10/29/21 16:42		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/29/21 07:26	10/29/21 16:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/29/21 07:26	10/29/21 16:42		1.015	0.00165	mg/L	0.000203	0.001015	
* Cobalt, Total	10/29/21 07:26	10/29/21 16:42		1.015	0.000788	mg/L	0.000068	0.000203	
* Lead, Total	10/29/21 07:26	10/29/21 16:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/29/21 07:26	10/29/21 16:42		1.015	0.000193	mg/L	0.000068	0.000203	J
* Potassium, Total	10/29/21 07:26	10/29/21 16:42		1.015	0.725	mg/L	0.169505	0.5075	
* Manganese, Total	10/29/21 07:26	10/29/21 18:22		5.075	1.75	mg/L	0.000340	0.001015	
* Selenium, Total	10/29/21 07:26	10/29/21 16:42		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/29/21 07:26	10/29/21 16:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8			Analyst: DLJ						
* Manganese, Dissolved	10/28/21 14:52	10/29/21 12:52		5.075	1.67	mg/L	0.000340	0.001015	
Analytical Method: EPA 245.1			Analyst: CRB						
* Mercury, Total by CVAA	10/28/21 11:06	10/28/21 17:13		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B			Analyst: JAG						
Alkalinity, Total as CaCO3	11/3/21 14:04	11/3/21 15:27		1	199	mg/L		0.1	
Analytical Method: SM 2540C			Analyst: CNJ						
* Solids, Dissolved	10/28/21 10:30	10/29/21 13:10		1	332	mg/L		25	

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

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-8

Location Code: WMWBARAP
Collected: 10/26/21 09:20
Customer ID:
Submittal Date: 10/27/21 16:26

Laboratory ID Number: BB19843

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	11/3/21 14:04	11/3/21 15:27		1	199	mg/L			
Carbonate Alkalinity, (calc.)	11/3/21 14:04	11/3/21 15:27		1	0.12	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	11/2/21 11:46	11/2/21 11:46		2	21.7	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/3/21 11:14	11/3/21 11:14		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/28/21 11:35	10/28/21 11:35		1	25.7	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	10/26/21 09:15	10/26/21 09:15			493.04	uS/cm			FA
pH	10/26/21 09:15	10/26/21 09:15			6.26	SU			FA
Temperature	10/26/21 09:15	10/26/21 09:15			20.20	C			FA
Turbidity	10/26/21 09:15	10/26/21 09:15			1.55	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/26/21 09:20
Customer ID:
Delivery Date: 10/27/21 16:26

Description: Barry Ash Pond - MW-8

Laboratory ID Number: BB19843

Sample	Analysis	Units	MB				Standard		Rec		Prec	Limit	
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec			Limit
BB19847	Selenium, Total	mg/L	0.000055	0.00100	0.100	0.0999	0.100	0.103	0.0850 to 0.115	99.9	70.0 to 130	0.100	20.0
BB19847	Cadmium, Total	mg/L	0.000004	0.000147	0.100	0.103	0.100	0.100	0.0850 to 0.115	103	70.0 to 130	2.96	20.0
BB19847	Manganese, Total	mg/L	0.0000162	0.000147	0.100	0.825	0.840	0.104	0.0850 to 0.115	105	70.0 to 130	1.80	20.0
BB19847	Antimony, Total	mg/L	0.000130	0.00100	0.100	0.0960	0.0970	0.0934	0.0850 to 0.115	96.0	70.0 to 130	1.04	20.0
BB19847	Mercury, Total by CVAA	mg/L	-2.000E-05	0.000500	0.004	0.00394	0.00398	0.0038	0.00340 to 0.00460	98.5	70.0 to 130	1.01	20.0
BB19847	Magnesium, Total	mg/L	-5.630E-05	0.0462	5.00	9.97	10.0	5.11	4.25 to 5.75	102	70.0 to 130	0.300	20.0
BB19847	Molybdenum, Total	mg/L	0.0000158	0.000147	0.100	0.0988	0.0985	0.101	0.0850 to 0.115	96.7	70.0 to 130	0.304	20.0
BB19847	Iron, Total	mg/L	8.480E-05	0.0176	0.2	100	99.3	0.205	0.170 to 0.230	350	70.0 to 130	0.702	20.0
BB19847	Chromium, Total	mg/L	-0.0000132	0.000440	0.100	0.102	0.104	0.100	0.0850 to 0.115	101	70.0 to 130	1.94	20.0
BB19847	Sodium, Total	mg/L	0.00187	0.0660	5.00	44.9	44.7	5.08	4.25 to 5.75	122	70.0 to 130	0.446	20.0
BB19847	Boron, Total	mg/L	0.000691	0.0650	1.00	1.10	1.11	1.02	0.850 to 1.15	100	70.0 to 130	0.905	20.0
BB19847	Thallium, Total	mg/L	0.0000098	0.000147	0.100	0.0998	0.100	0.0963	0.0850 to 0.115	99.8	70.0 to 130	0.200	20.0
BB19847	Lead, Total	mg/L	0.0000023	0.000147	0.100	0.104	0.104	0.103	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BB19847	Arsenic, Total	mg/L	0.0000075	0.000147	0.100	0.121	0.122	0.105	0.0850 to 0.115	102	70.0 to 130	0.823	20.0
BB19847	Lithium, Total	mg/L	-2.980E-06	0.0154	0.200	0.222	0.222	0.197	0.170 to 0.230	105	70.0 to 130	0.00	20.0
BB19847	Cobalt, Total	mg/L	0.0000032	0.000147	0.100	0.143	0.143	0.104	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BB19849	Iron, Dissolved	mg/L	5.970E-05	0.0176	0.2	31.2	31.3	0.202	0.170 to 0.230	-100	70.0 to 130	0.320	20.0
BB19849	Manganese, Dissolved	mg/L	0.0000140	0.000147	0.100	0.568	0.557	0.103	0.0850 to 0.115	78.0	70.0 to 130	1.96	20.0
BB19847	Calcium, Total	mg/L	0.00195	0.152	5.00	11.6	11.7	5.09	4.25 to 5.75	103	70.0 to 130	0.858	20.0
BB19847	Beryllium, Total	mg/L	0.0000188	0.000880	0.100	0.0967	0.0922	0.100	0.0850 to 0.115	96.7	70.0 to 130	4.76	20.0
BB19847	Potassium, Total	mg/L	0.0260	0.367	10.0	13.5	13.6	9.89	8.50 to 11.5	95.3	70.0 to 130	0.738	20.0
BB19847	Barium, Total	mg/L	0.0000134	0.000200	0.100	0.170	0.176	0.0991	0.0850 to 0.115	91.6	70.0 to 130	3.47	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: WMWBARAP
Sample Date: 10/26/21 09:20
Customer ID:
Delivery Date: 10/27/21 16:26

Description: Barry Ash Pond - MW-8

Laboratory ID Number: BB19843

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB19847	Chloride	mg/L	0.00309	1.00	100	187	84.3	10.2	9.00 to 11.0	102	80.0 to 120	1.30	20.0
BB19845	Solids, Dissolved	mg/L	0.0000	25.0			205	45.0	40.0 to 60.0			2.50	10.0
BB19849	Alkalinity, Total as CaCO3	mg/L					152	48.5	45.0 to 55.0			0.660	10.0
BB19847	Fluoride	mg/L	-0.0117	0.100	2.50	2.75	0.190	2.51	2.25 to 2.75	103	80.0 to 120	10.5	20.0
BB19847	Sulfate	mg/L	-0.272	1.00	20.0	44.8	28.2	21.3	18.0 to 22.0	92.0	80.0 to 120	6.59	20.0

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-8V

Location Code: WMWBARAP
Collected: 10/26/21 10:15
Customer ID:
Submittal Date: 10/27/21 16:26

Laboratory ID Number: BB19844

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	11/1/21 08:14	11/2/21 11:19		1.015	0.216	mg/L	0.030000	0.1015	
* Calcium, Total	11/1/21 08:14	11/2/21 11:19		1.015	25.7	mg/L	0.070035	0.406	
* Iron, Total	11/1/21 08:14	11/2/21 13:41		50.75	69.4	mg/L	0.40600	2.03	
* Lithium, Total	11/1/21 08:14	11/2/21 11:19		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/1/21 08:14	11/2/21 11:19		1.015	14.3	mg/L	0.021315	0.406	
* Sodium, Total	11/1/21 08:14	11/2/21 11:19		1.015	39.2	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	11/1/21 08:38	11/3/21 10:45		50.75	67.0	mg/L	0.40600	2.03	
Analytical Method: EPA 200.8		Analyst: ABB			Preparation Method: EPA 1638				
* Antimony, Total	10/29/21 07:26	10/29/21 16:46		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/29/21 07:26	10/29/21 16:46		1.015	0.00480	mg/L	0.000068	0.000203	
* Barium, Total	10/29/21 07:26	10/29/21 16:46		1.015	0.282	mg/L	0.000102	0.000203	
* Beryllium, Total	10/29/21 07:26	10/29/21 16:46		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/29/21 07:26	10/29/21 16:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/29/21 07:26	10/29/21 16:46		1.015	0.00124	mg/L	0.000203	0.001015	
* Cobalt, Total	10/29/21 07:26	10/29/21 16:46		1.015	0.000879	mg/L	0.000068	0.000203	
* Lead, Total	10/29/21 07:26	10/29/21 16:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/29/21 07:26	10/29/21 16:46		1.015	0.000276	mg/L	0.000068	0.000203	
* Potassium, Total	10/29/21 07:26	10/29/21 16:46		1.015	2.61	mg/L	0.169505	0.5075	
* Manganese, Total	10/29/21 07:26	10/29/21 16:46		1.015	0.789	mg/L	0.000068	0.000203	
* Selenium, Total	10/29/21 07:26	10/29/21 16:46		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/29/21 07:26	10/29/21 16:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	10/28/21 14:52	10/28/21 16:49		1.015	0.763	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	10/28/21 11:06	10/28/21 17:17		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	11/3/21 14:04	11/3/21 15:27		1	247	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/28/21 10:30	10/29/21 13:10		1	350	mg/L		25	

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

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-8V

Location Code: WMWBARAP
Collected: 10/26/21 10:15
Customer ID:
Submittal Date: 10/27/21 16:26

Laboratory ID Number: BB19844

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	11/3/21 14:04	11/3/21 15:27		1	247	mg/L			
Carbonate Alkalinity, (calc.)	11/3/21 14:04	11/3/21 15:27		1	0.14	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	11/2/21 11:47	11/2/21 11:47		2	23.9	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/3/21 11:16	11/3/21 11:16		1	0.107	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/28/21 11:44	10/28/21 11:44		2	58.2	mg/L	1.00	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	10/26/21 10:10	10/26/21 10:10			551.01	uS/cm			FA
pH	10/26/21 10:10	10/26/21 10:10			6.26	SU			FA
Temperature	10/26/21 10:10	10/26/21 10:10			20.51	C			FA
Turbidity	10/26/21 10:10	10/26/21 10:10			1.46	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: WMWBARAP
Sample Date: 10/26/21 10:15
Customer ID:
Delivery Date: 10/27/21 16:26

Description: Barry Ash Pond - MW-8V

Laboratory ID Number: BB19844

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB19847	Magnesium, Total	mg/L	-5.630E-05	0.0462	5.00	9.97	10.0	5.11	4.25 to 5.75	102	70.0 to 130	0.300	20.0
BB19847	Molybdenum, Total	mg/L	0.0000158	0.000147	0.100	0.0988	0.0985	0.101	0.0850 to 0.115	96.7	70.0 to 130	0.304	20.0
BB19847	Boron, Total	mg/L	0.000691	0.0650	1.00	1.10	1.11	1.02	0.850 to 1.15	100	70.0 to 130	0.905	20.0
BB19847	Thallium, Total	mg/L	0.0000098	0.000147	0.100	0.0998	0.100	0.0963	0.0850 to 0.115	99.8	70.0 to 130	0.200	20.0
BB19847	Calcium, Total	mg/L	0.00195	0.152	5.00	11.6	11.7	5.09	4.25 to 5.75	103	70.0 to 130	0.858	20.0
BB19847	Beryllium, Total	mg/L	0.0000188	0.000880	0.100	0.0967	0.0922	0.100	0.0850 to 0.115	96.7	70.0 to 130	4.76	20.0
BB19847	Potassium, Total	mg/L	0.0260	0.367	10.0	13.5	13.6	9.89	8.50 to 11.5	95.3	70.0 to 130	0.738	20.0
BB19847	Barium, Total	mg/L	0.0000134	0.000200	0.100	0.170	0.176	0.0991	0.0850 to 0.115	91.6	70.0 to 130	3.47	20.0
BB19847	Antimony, Total	mg/L	0.000130	0.00100	0.100	0.0960	0.0970	0.0934	0.0850 to 0.115	96.0	70.0 to 130	1.04	20.0
BB19847	Mercury, Total by CVAA	mg/L	-2.000E-05	0.000500	0.004	0.00394	0.00398	0.0038	0.00340 to 0.00460	98.5	70.0 to 130	1.01	20.0
BB19847	Cobalt, Total	mg/L	0.0000032	0.000147	0.100	0.143	0.143	0.104	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BB19849	Iron, Dissolved	mg/L	5.970E-05	0.0176	0.2	31.2	31.3	0.202	0.170 to 0.230	-100	70.0 to 130	0.320	20.0
BB19849	Manganese, Dissolved	mg/L	0.0000140	0.000147	0.100	0.568	0.557	0.103	0.0850 to 0.115	78.0	70.0 to 130	1.96	20.0
BB19847	Lead, Total	mg/L	0.0000023	0.000147	0.100	0.104	0.104	0.103	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BB19847	Arsenic, Total	mg/L	0.0000075	0.000147	0.100	0.121	0.122	0.105	0.0850 to 0.115	102	70.0 to 130	0.823	20.0
BB19847	Lithium, Total	mg/L	-2.980E-06	0.0154	0.200	0.222	0.222	0.197	0.170 to 0.230	105	70.0 to 130	0.00	20.0
BB19847	Selenium, Total	mg/L	0.000055	0.00100	0.100	0.0999	0.100	0.103	0.0850 to 0.115	99.9	70.0 to 130	0.100	20.0
BB19847	Cadmium, Total	mg/L	0.000004	0.000147	0.100	0.103	0.100	0.100	0.0850 to 0.115	103	70.0 to 130	2.96	20.0
BB19847	Manganese, Total	mg/L	0.0000162	0.000147	0.100	0.825	0.840	0.104	0.0850 to 0.115	105	70.0 to 130	1.80	20.0
BB19847	Iron, Total	mg/L	8.480E-05	0.0176	0.2	100	99.3	0.205	0.170 to 0.230	350	70.0 to 130	0.702	20.0
BB19847	Chromium, Total	mg/L	-0.0000132	0.000440	0.100	0.102	0.104	0.100	0.0850 to 0.115	101	70.0 to 130	1.94	20.0
BB19847	Sodium, Total	mg/L	0.00187	0.0660	5.00	44.9	44.7	5.08	4.25 to 5.75	122	70.0 to 130	0.446	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: WMWBARAP
Sample Date: 10/26/21 10:15
Customer ID:
Delivery Date: 10/27/21 16:26

Description: Barry Ash Pond - MW-8V

Laboratory ID Number: BB19844

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB19849	Alkalinity, Total as CaCO3	mg/L					152	48.5	45.0 to 55.0			0.660	10.0
BB19847	Fluoride	mg/L	-0.0117	0.100	2.50	2.75	0.190	2.51	2.25 to 2.75	103	80.0 to 120	10.5	20.0
BB19845	Solids, Dissolved	mg/L	0.0000	25.0			205	45.0	40.0 to 60.0			2.50	10.0
BB19847	Chloride	mg/L	0.00309	1.00	100	187	84.3	10.2	9.00 to 11.0	102	80.0 to 120	1.30	20.0
BB19847	Sulfate	mg/L	-0.272	1.00	20.0	44.8	28.2	21.3	18.0 to 22.0	92.0	80.0 to 120	6.59	20.0

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-16V

Location Code: WMWBARAP
Collected: 10/26/21 11:35
Customer ID:
Submittal Date: 10/27/21 16:26

Laboratory ID Number: BB19845

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	11/1/21 08:14	11/2/21 11:22		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	11/1/21 08:14	11/2/21 11:22		1.015	1.96	mg/L	0.070035	0.406	
* Iron, Total	11/1/21 08:14	11/2/21 13:44		10.15	4.30	mg/L	0.08120	0.406	
* Lithium, Total	11/1/21 08:14	11/2/21 11:22		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/1/21 08:14	11/2/21 11:22		1.015	1.76	mg/L	0.021315	0.406	
* Sodium, Total	11/1/21 08:14	11/2/21 13:44		10.15	57.5	mg/L	0.3045	4.06	
Analytical Method: EPA 200.7			Analyst: RDA						
* Iron, Dissolved	11/1/21 08:38	11/3/21 11:54		10.15	4.24	mg/L	0.08120	0.406	
Analytical Method: EPA 200.8			Analyst: ABB		Preparation Method: EPA 1638				
* Antimony, Total	10/29/21 07:26	10/29/21 16:49		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/29/21 07:26	10/29/21 16:49		1.015	0.00105	mg/L	0.000068	0.000203	
* Barium, Total	10/29/21 07:26	10/29/21 16:49		1.015	0.0589	mg/L	0.000102	0.000203	
* Beryllium, Total	10/29/21 07:26	10/29/21 16:49		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/29/21 07:26	10/29/21 16:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/29/21 07:26	10/29/21 16:49		1.015	0.000402	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/29/21 07:26	10/29/21 16:49		1.015	0.0159	mg/L	0.000068	0.000203	
* Lead, Total	10/29/21 07:26	10/29/21 16:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/29/21 07:26	10/29/21 16:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	10/29/21 07:26	10/29/21 16:49		1.015	2.19	mg/L	0.169505	0.5075	
* Manganese, Total	10/29/21 07:26	10/29/21 16:49		1.015	0.167	mg/L	0.000068	0.000203	
* Selenium, Total	10/29/21 07:26	10/29/21 16:49		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/29/21 07:26	10/29/21 16:49		1.015	0.000103	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8			Analyst: DLJ						
* Manganese, Dissolved	10/28/21 14:52	10/28/21 16:52		1.015	0.157	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1			Analyst: CRB						
* Mercury, Total by CVAA	10/28/21 11:06	10/28/21 17:20		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B			Analyst: JAG						
Alkalinity, Total as CaCO3	11/3/21 14:04	11/3/21 15:27		1	22.0	mg/L		0.1	
Analytical Method: SM 2540C			Analyst: CNJ						
* Solids, Dissolved	10/28/21 10:30	10/29/21 13:10		1	195	mg/L		25	

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

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-16V

Location Code: WMWBARAP
Collected: 10/26/21 11:35
Customer ID:
Submittal Date: 10/27/21 16:26

Laboratory ID Number: BB19845

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	11/3/21 14:04	11/3/21 15:27		1	22.0	mg/L			
Carbonate Alkalinity, (calc.)	11/3/21 14:04	11/3/21 15:27		1	0.00	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	11/2/21 11:48	11/2/21 11:48		8	68.3	mg/L	4.00	8	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/3/21 11:17	11/3/21 11:17		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/28/21 11:37	10/28/21 11:37		1	38.1	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	10/26/21 11:30	10/26/21 11:30			342.37	uS/cm			FA
pH	10/26/21 11:30	10/26/21 11:30			5.26	SU			FA
Temperature	10/26/21 11:30	10/26/21 11:30			22.05	C			FA
Turbidity	10/26/21 11:30	10/26/21 11:30			0.7	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/26/21 11:35
Customer ID:
Delivery Date: 10/27/21 16:26

Description: Barry Ash Pond - MW-16V

Laboratory ID Number: BB19845

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB19847	Lead, Total	mg/L	0.000023	0.000147	0.100	0.104	0.104	0.103	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BB19847	Arsenic, Total	mg/L	0.0000075	0.000147	0.100	0.121	0.122	0.105	0.0850 to 0.115	102	70.0 to 130	0.823	20.0
BB19847	Lithium, Total	mg/L	-2.980E-06	0.0154	0.200	0.222	0.222	0.197	0.170 to 0.230	105	70.0 to 130	0.00	20.0
BB19847	Selenium, Total	mg/L	0.000055	0.00100	0.100	0.0999	0.100	0.103	0.0850 to 0.115	99.9	70.0 to 130	0.100	20.0
BB19847	Cadmium, Total	mg/L	0.000004	0.000147	0.100	0.103	0.100	0.100	0.0850 to 0.115	103	70.0 to 130	2.96	20.0
BB19847	Manganese, Total	mg/L	0.0000162	0.000147	0.100	0.825	0.840	0.104	0.0850 to 0.115	105	70.0 to 130	1.80	20.0
BB19847	Boron, Total	mg/L	0.000691	0.0650	1.00	1.10	1.11	1.02	0.850 to 1.15	100	70.0 to 130	0.905	20.0
BB19847	Thallium, Total	mg/L	0.0000098	0.000147	0.100	0.0998	0.100	0.0963	0.0850 to 0.115	99.8	70.0 to 130	0.200	20.0
BB19847	Magnesium, Total	mg/L	-5.630E-05	0.0462	5.00	9.97	10.0	5.11	4.25 to 5.75	102	70.0 to 130	0.300	20.0
BB19847	Molybdenum, Total	mg/L	0.0000158	0.000147	0.100	0.0988	0.0985	0.101	0.0850 to 0.115	96.7	70.0 to 130	0.304	20.0
BB19847	Iron, Total	mg/L	8.480E-05	0.0176	0.2	100	99.3	0.205	0.170 to 0.230	350	70.0 to 130	0.702	20.0
BB19847	Chromium, Total	mg/L	-0.0000132	0.000440	0.100	0.102	0.104	0.100	0.0850 to 0.115	101	70.0 to 130	1.94	20.0
BB19847	Sodium, Total	mg/L	0.00187	0.0660	5.00	44.9	44.7	5.08	4.25 to 5.75	122	70.0 to 130	0.446	20.0
BB19847	Antimony, Total	mg/L	0.000130	0.00100	0.100	0.0960	0.0970	0.0934	0.0850 to 0.115	96.0	70.0 to 130	1.04	20.0
BB19847	Mercury, Total by CVAA	mg/L	-2.000E-05	0.000500	0.004	0.00394	0.00398	0.0038	0.00340 to 0.00460	98.5	70.0 to 130	1.01	20.0
BB19847	Calcium, Total	mg/L	0.00195	0.152	5.00	11.6	11.7	5.09	4.25 to 5.75	103	70.0 to 130	0.858	20.0
BB19847	Beryllium, Total	mg/L	0.0000188	0.000880	0.100	0.0967	0.0922	0.100	0.0850 to 0.115	96.7	70.0 to 130	4.76	20.0
BB19847	Potassium, Total	mg/L	0.0260	0.367	10.0	13.5	13.6	9.89	8.50 to 11.5	95.3	70.0 to 130	0.738	20.0
BB19847	Barium, Total	mg/L	0.0000134	0.000200	0.100	0.170	0.176	0.0991	0.0850 to 0.115	91.6	70.0 to 130	3.47	20.0
BB19847	Cobalt, Total	mg/L	0.0000032	0.000147	0.100	0.143	0.143	0.104	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BB19849	Iron, Dissolved	mg/L	5.970E-05	0.0176	0.2	31.2	31.3	0.202	0.170 to 0.230	-100	70.0 to 130	0.320	20.0
BB19849	Manganese, Dissolved	mg/L	0.0000140	0.000147	0.100	0.568	0.557	0.103	0.0850 to 0.115	78.0	70.0 to 130	1.96	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: WMWBARAP
Sample Date: 10/26/21 11:35
Customer ID:
Delivery Date: 10/27/21 16:26

Description: Barry Ash Pond - MW-16V

Laboratory ID Number: BB19845

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB19847	Chloride	mg/L	0.00309	1.00	100	187	84.3	10.2	9.00 to 11.0	102	80.0 to 120	1.30	20.0
BB19845	Solids, Dissolved	mg/L	0.0000	25.0			205	45.0	40.0 to 60.0			2.50	10.0
BB19847	Sulfate	mg/L	-0.272	1.00	20.0	44.8	28.2	21.3	18.0 to 22.0	92.0	80.0 to 120	6.59	20.0
BB19849	Alkalinity, Total as CaCO3	mg/L					152	48.5	45.0 to 55.0			0.660	10.0
BB19847	Fluoride	mg/L	-0.0117	0.100	2.50	2.75	0.190	2.51	2.25 to 2.75	103	80.0 to 120	10.5	20.0

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-24H

Location Code: WMWBARAP
Collected: 10/26/21 12:48
Customer ID:
Submittal Date: 10/27/21 16:26

Laboratory ID Number: BB19846

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	11/1/21 08:14	11/2/21 11:26		1.015	0.354	mg/L	0.030000	0.1015	
* Calcium, Total	11/1/21 08:14	11/2/21 11:26		1.015	18.4	mg/L	0.070035	0.406	
* Iron, Total	11/1/21 08:14	11/2/21 13:48		50.75	111	mg/L	0.40600	2.03	
* Lithium, Total	11/1/21 08:14	11/2/21 11:26		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/1/21 08:14	11/2/21 11:26		1.015	16.9	mg/L	0.021315	0.406	
* Sodium, Total	11/1/21 08:14	11/2/21 13:48		50.75	71.8	mg/L	1.5225	20.3	
Analytical Method: EPA 200.7			Analyst: RDA						
* Iron, Dissolved	11/1/21 08:38	11/3/21 10:52		50.75	111	mg/L	0.40600	2.03	
Analytical Method: EPA 200.8			Analyst: ABB		Preparation Method: EPA 1638				
* Antimony, Total	10/29/21 07:26	10/29/21 16:53		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/29/21 07:26	10/29/21 16:53		1.015	0.0752	mg/L	0.000068	0.000203	
* Barium, Total	10/29/21 07:26	10/29/21 16:53		1.015	0.238	mg/L	0.000102	0.000203	
* Beryllium, Total	10/29/21 07:26	10/29/21 16:53		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/29/21 07:26	10/29/21 16:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/29/21 07:26	10/29/21 16:53		1.015	0.00104	mg/L	0.000203	0.001015	
* Cobalt, Total	10/29/21 07:26	10/29/21 16:53		1.015	0.00591	mg/L	0.000068	0.000203	
* Lead, Total	10/29/21 07:26	10/29/21 16:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/29/21 07:26	10/29/21 16:53		1.015	0.000964	mg/L	0.000068	0.000203	
* Potassium, Total	10/29/21 07:26	10/29/21 16:53		1.015	2.52	mg/L	0.169505	0.5075	
* Manganese, Total	10/29/21 07:26	10/29/21 16:53		1.015	0.223	mg/L	0.000068	0.000203	
* Selenium, Total	10/29/21 07:26	10/29/21 16:53		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/29/21 07:26	10/29/21 16:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8			Analyst: DLJ						
* Manganese, Dissolved	10/28/21 14:52	10/28/21 16:56		1.015	0.216	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1			Analyst: CRB						
* Mercury, Total by CVAA	10/28/21 11:06	10/28/21 17:24		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B			Analyst: JAG						
Alkalinity, Total as CaCO3	11/3/21 14:04	11/3/21 15:27		1	316	mg/L		0.1	
Analytical Method: SM 2540C			Analyst: CNJ						
* Solids, Dissolved	10/29/21 11:46	11/1/21 13:36		1	448	mg/L		25	

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

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-24H

Location Code: WMWBARAP
Collected: 10/26/21 12:48
Customer ID:
Submittal Date: 10/27/21 16:26

Laboratory ID Number: BB19846

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	11/3/21 14:04	11/3/21 15:27		1	316	mg/L			
Carbonate Alkalinity, (calc.)	11/3/21 14:04	11/3/21 15:27		1	0.10	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	11/2/21 11:50	11/2/21 11:50		8	41.6	mg/L	4.00	8	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/3/21 11:18	11/3/21 11:18		1	0.158	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/28/21 11:46	10/28/21 11:46		4	122	mg/L	2.00	4	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	10/26/21 12:44	10/26/21 12:44			762.38	uS/cm			FA
pH	10/26/21 12:44	10/26/21 12:44			6.20	SU			FA
Temperature	10/26/21 12:44	10/26/21 12:44			21.65	C			FA
Turbidity	10/26/21 12:44	10/26/21 12:44			1.62	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/26/21 12:48
Customer ID:
Delivery Date: 10/27/21 16:26

Description: Barry Ash Pond - MW-24H

Laboratory ID Number: BB19846

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB19847	Magnesium, Total	mg/L	-5.630E-05	0.0462	5.00	9.97	10.0	5.11	4.25 to 5.75	102	70.0 to 130	0.300	20.0
BB19847	Molybdenum, Total	mg/L	0.0000158	0.000147	0.100	0.0988	0.0985	0.101	0.0850 to 0.115	96.7	70.0 to 130	0.304	20.0
BB19847	Antimony, Total	mg/L	0.000130	0.00100	0.100	0.0960	0.0970	0.0934	0.0850 to 0.115	96.0	70.0 to 130	1.04	20.0
BB19847	Mercury, Total by CVAA	mg/L	-2.000E-05	0.000500	0.004	0.00394	0.00398	0.0038	0.00340 to 0.00460	98.5	70.0 to 130	1.01	20.0
BB19847	Selenium, Total	mg/L	0.000055	0.00100	0.100	0.0999	0.100	0.103	0.0850 to 0.115	99.9	70.0 to 130	0.100	20.0
BB19847	Cadmium, Total	mg/L	0.000004	0.000147	0.100	0.103	0.100	0.100	0.0850 to 0.115	103	70.0 to 130	2.96	20.0
BB19847	Manganese, Total	mg/L	0.0000162	0.000147	0.100	0.825	0.840	0.104	0.0850 to 0.115	105	70.0 to 130	1.80	20.0
BB19847	Boron, Total	mg/L	0.000691	0.0650	1.00	1.10	1.11	1.02	0.850 to 1.15	100	70.0 to 130	0.905	20.0
BB19847	Thallium, Total	mg/L	0.0000098	0.000147	0.100	0.0998	0.100	0.0963	0.0850 to 0.115	99.8	70.0 to 130	0.200	20.0
BB19847	Iron, Total	mg/L	8.480E-05	0.0176	0.2	100	99.3	0.205	0.170 to 0.230	350	70.0 to 130	0.702	20.0
BB19847	Chromium, Total	mg/L	-0.0000132	0.000440	0.100	0.102	0.104	0.100	0.0850 to 0.115	101	70.0 to 130	1.94	20.0
BB19847	Sodium, Total	mg/L	0.00187	0.0660	5.00	44.9	44.7	5.08	4.25 to 5.75	122	70.0 to 130	0.446	20.0
BB19847	Lead, Total	mg/L	0.0000023	0.000147	0.100	0.104	0.104	0.103	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BB19847	Arsenic, Total	mg/L	0.0000075	0.000147	0.100	0.121	0.122	0.105	0.0850 to 0.115	102	70.0 to 130	0.823	20.0
BB19847	Lithium, Total	mg/L	-2.980E-06	0.0154	0.200	0.222	0.222	0.197	0.170 to 0.230	105	70.0 to 130	0.00	20.0
BB19847	Calcium, Total	mg/L	0.00195	0.152	5.00	11.6	11.7	5.09	4.25 to 5.75	103	70.0 to 130	0.858	20.0
BB19847	Beryllium, Total	mg/L	0.0000188	0.000880	0.100	0.0967	0.0922	0.100	0.0850 to 0.115	96.7	70.0 to 130	4.76	20.0
BB19847	Potassium, Total	mg/L	0.0260	0.367	10.0	13.5	13.6	9.89	8.50 to 11.5	95.3	70.0 to 130	0.738	20.0
BB19847	Barium, Total	mg/L	0.0000134	0.000200	0.100	0.170	0.176	0.0991	0.0850 to 0.115	91.6	70.0 to 130	3.47	20.0
BB19847	Cobalt, Total	mg/L	0.0000032	0.000147	0.100	0.143	0.143	0.104	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BB19849	Iron, Dissolved	mg/L	5.970E-05	0.0176	0.2	31.2	31.3	0.202	0.170 to 0.230	-100	70.0 to 130	0.320	20.0
BB19849	Manganese, Dissolved	mg/L	0.0000140	0.000147	0.100	0.568	0.557	0.103	0.0850 to 0.115	78.0	70.0 to 130	1.96	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: WMWBARAP
Sample Date: 10/26/21 12:48
Customer ID:
Delivery Date: 10/27/21 16:26

Description: Barry Ash Pond - MW-24H

Laboratory ID Number: BB19846

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB19847	Chloride	mg/L	0.00309	1.00	100	187	84.3	10.2	9.00 to 11.0	102	80.0 to 120	1.30	20.0
BB19849	Alkalinity, Total as CaCO3	mg/L					152	48.5	45.0 to 55.0			0.660	10.0
BB19847	Fluoride	mg/L	-0.0117	0.100	2.50	2.75	0.190	2.51	2.25 to 2.75	103	80.0 to 120	10.5	20.0
BB19847	Sulfate	mg/L	-0.272	1.00	20.0	44.8	28.2	21.3	18.0 to 22.0	92.0	80.0 to 120	6.59	20.0
BB19849	Solids, Dissolved	mg/L	0.0000	25.0			274	51.0	40.0 to 60.0			2.17	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: Barry Ash Pond - MW-15

Location Code: WMWBARAP
Collected: 10/26/21 13:48
Customer ID:
Submittal Date: 10/27/21 16:26

Laboratory ID Number: BB19847

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	11/1/21 08:14	11/2/21 11:29		1.015	0.0953	mg/L	0.030000	0.1015	J
* Calcium, Total	11/1/21 08:14	11/2/21 11:29		1.015	6.46	mg/L	0.070035	0.406	
* Iron, Total	11/1/21 08:14	11/2/21 13:51		50.75	99.3	mg/L	0.40600	2.03	RA
* Lithium, Total	11/1/21 08:14	11/2/21 11:29		1.015	0.0117	mg/L	0.007105	0.01999956	J
* Magnesium, Total	11/1/21 08:14	11/2/21 11:29		1.015	4.88	mg/L	0.021315	0.406	
* Sodium, Total	11/1/21 08:14	11/2/21 11:29		1.015	38.8	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	11/1/21 08:38	11/3/21 10:56		50.75	99.8	mg/L	0.40600	2.03	
Analytical Method: EPA 200.8		Analyst: ABB			Preparation Method: EPA 1638				
* Antimony, Total	10/29/21 07:26	10/29/21 16:57		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/29/21 07:26	10/29/21 16:57		1.015	0.0186	mg/L	0.000068	0.000203	
* Barium, Total	10/29/21 07:26	10/29/21 16:57		1.015	0.0784	mg/L	0.000102	0.000203	
* Beryllium, Total	10/29/21 07:26	10/29/21 16:57		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/29/21 07:26	10/29/21 16:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/29/21 07:26	10/29/21 16:57		1.015	0.000520	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/29/21 07:26	10/29/21 16:57		1.015	0.0347	mg/L	0.000068	0.000203	
* Lead, Total	10/29/21 07:26	10/29/21 16:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/29/21 07:26	10/29/21 16:57		1.015	0.00206	mg/L	0.000068	0.000203	
* Potassium, Total	10/29/21 07:26	10/29/21 16:57		1.015	3.97	mg/L	0.169505	0.5075	
* Manganese, Total	10/29/21 07:26	10/29/21 16:57		1.015	0.720	mg/L	0.000068	0.000203	
* Selenium, Total	10/29/21 07:26	10/29/21 16:57		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/29/21 07:26	10/29/21 16:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	10/28/21 14:52	10/28/21 16:59		1.015	0.711	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	10/28/21 11:06	10/28/21 17:28		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	11/3/21 14:04	11/3/21 15:27		1	103	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/29/21 11:46	11/1/21 13:36		1	269	mg/L		25	

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

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-15

Location Code: WMWBARAP
Collected: 10/26/21 13:48
Customer ID:
Submittal Date: 10/27/21 16:26

Laboratory ID Number: BB19847

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	11/3/21 14:04	11/3/21 15:27		1	103	mg/L			
Carbonate Alkalinity, (calc.)	11/3/21 14:04	11/3/21 15:27		1	0.03	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	11/2/21 11:51	11/2/21 11:51		10	85.4	mg/L	5.00	10	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/3/21 11:19	11/3/21 11:19		1	0.171	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/28/21 11:40	10/28/21 11:40		1	26.4	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	10/26/21 13:44	10/26/21 13:44			559.04	uS/cm			FA
pH	10/26/21 13:44	10/26/21 13:44			6.70	SU			FA
Temperature	10/26/21 13:44	10/26/21 13:44			21.66	C			FA
Turbidity	10/26/21 13:44	10/26/21 13:44			1.69	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: WMWBARAP
Sample Date: 10/26/21 13:48
Customer ID:
Delivery Date: 10/27/21 16:26

Description: Barry Ash Pond - MW-15

Laboratory ID Number: BB19847

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB19847	Magnesium, Total	mg/L	-5.630E-05	0.0462	5.00	9.97	10.0	5.11	4.25 to 5.75	102	70.0 to 130	0.300	20.0
BB19847	Molybdenum, Total	mg/L	0.0000158	0.000147	0.100	0.0988	0.0985	0.101	0.0850 to 0.115	96.7	70.0 to 130	0.304	20.0
BB19847	Antimony, Total	mg/L	0.000130	0.00100	0.100	0.0960	0.0970	0.0934	0.0850 to 0.115	96.0	70.0 to 130	1.04	20.0
BB19847	Mercury, Total by CVAA	mg/L	-2.000E-05	0.000500	0.004	0.00394	0.00398	0.0038	0.00340 to 0.00460	98.5	70.0 to 130	1.01	20.0
BB19847	Selenium, Total	mg/L	0.000055	0.00100	0.100	0.0999	0.100	0.103	0.0850 to 0.115	99.9	70.0 to 130	0.100	20.0
BB19847	Cadmium, Total	mg/L	0.000004	0.000147	0.100	0.103	0.100	0.100	0.0850 to 0.115	103	70.0 to 130	2.96	20.0
BB19847	Manganese, Total	mg/L	0.0000162	0.000147	0.100	0.825	0.840	0.104	0.0850 to 0.115	105	70.0 to 130	1.80	20.0
BB19847	Boron, Total	mg/L	0.000691	0.0650	1.00	1.10	1.11	1.02	0.850 to 1.15	100	70.0 to 130	0.905	20.0
BB19847	Thallium, Total	mg/L	0.0000098	0.000147	0.100	0.0998	0.100	0.0963	0.0850 to 0.115	99.8	70.0 to 130	0.200	20.0
BB19847	Lead, Total	mg/L	0.0000023	0.000147	0.100	0.104	0.104	0.103	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BB19847	Arsenic, Total	mg/L	0.0000075	0.000147	0.100	0.121	0.122	0.105	0.0850 to 0.115	102	70.0 to 130	0.823	20.0
BB19847	Lithium, Total	mg/L	-2.980E-06	0.0154	0.200	0.222	0.222	0.197	0.170 to 0.230	105	70.0 to 130	0.00	20.0
BB19847	Iron, Total	mg/L	8.480E-05	0.0176	0.2	100	99.3	0.205	0.170 to 0.230	350	70.0 to 130	0.702	20.0
BB19847	Chromium, Total	mg/L	-0.0000132	0.000440	0.100	0.102	0.104	0.100	0.0850 to 0.115	101	70.0 to 130	1.94	20.0
BB19847	Sodium, Total	mg/L	0.00187	0.0660	5.00	44.9	44.7	5.08	4.25 to 5.75	122	70.0 to 130	0.446	20.0
BB19847	Calcium, Total	mg/L	0.00195	0.152	5.00	11.6	11.7	5.09	4.25 to 5.75	103	70.0 to 130	0.858	20.0
BB19847	Beryllium, Total	mg/L	0.0000188	0.000880	0.100	0.0967	0.0922	0.100	0.0850 to 0.115	96.7	70.0 to 130	4.76	20.0
BB19847	Potassium, Total	mg/L	0.0260	0.367	10.0	13.5	13.6	9.89	8.50 to 11.5	95.3	70.0 to 130	0.738	20.0
BB19847	Barium, Total	mg/L	0.0000134	0.000200	0.100	0.170	0.176	0.0991	0.0850 to 0.115	91.6	70.0 to 130	3.47	20.0
BB19847	Cobalt, Total	mg/L	0.0000032	0.000147	0.100	0.143	0.143	0.104	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BB19849	Iron, Dissolved	mg/L	5.970E-05	0.0176	0.2	31.2	31.3	0.202	0.170 to 0.230	-100	70.0 to 130	0.320	20.0
BB19849	Manganese, Dissolved	mg/L	0.0000140	0.000147	0.100	0.568	0.557	0.103	0.0850 to 0.115	78.0	70.0 to 130	1.96	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: WMWBARAP
Sample Date: 10/26/21 13:48
Customer ID:
Delivery Date: 10/27/21 16:26

Description: Barry Ash Pond - MW-15

Laboratory ID Number: BB19847

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB19847	Chloride	mg/L	0.00309	1.00	100	187	84.3	10.2	9.00 to 11.0	102	80.0 to 120	1.30	20.0
BB19849	Alkalinity, Total as CaCO3	mg/L					152	48.5	45.0 to 55.0			0.660	10.0
BB19847	Fluoride	mg/L	-0.0117	0.100	2.50	2.75	0.190	2.51	2.25 to 2.75	103	80.0 to 120	10.5	20.0
BB19847	Sulfate	mg/L	-0.272	1.00	20.0	44.8	28.2	21.3	18.0 to 22.0	92.0	80.0 to 120	6.59	20.0
BB19849	Solids, Dissolved	mg/L	0.0000	25.0			274	51.0	40.0 to 60.0			2.17	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: Barry Ash Pond - MW-14V

Location Code: WMWBARAP
Collected: 10/26/21 15:00
Customer ID:
Submittal Date: 10/27/21 16:26

Laboratory ID Number: BB19848

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	11/1/21 08:14	11/2/21 11:53		1.015	0.393	mg/L	0.030000	0.1015	
* Calcium, Total	11/1/21 08:14	11/2/21 11:53		1.015	5.28	mg/L	0.070035	0.406	
* Iron, Total	11/1/21 08:14	11/2/21 14:08		20.3	18.3	mg/L	0.1624	0.812	
* Lithium, Total	11/1/21 08:14	11/2/21 11:53		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/1/21 08:14	11/2/21 11:53		1.015	2.81	mg/L	0.021315	0.406	
* Sodium, Total	11/1/21 08:14	11/2/21 14:08		20.3	181	mg/L	0.609	8.12	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	11/1/21 08:38	11/3/21 11:00		10.15	17.4	mg/L	0.08120	0.406	
Analytical Method: EPA 200.8		Analyst: ABB			Preparation Method: EPA 1638				
* Antimony, Total	10/29/21 07:26	10/29/21 17:25		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/29/21 07:26	10/29/21 17:25		1.015	0.00410	mg/L	0.000068	0.000203	
* Barium, Total	10/29/21 07:26	10/29/21 17:25		1.015	0.0653	mg/L	0.000102	0.000203	
* Beryllium, Total	10/29/21 07:26	10/29/21 17:25		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/29/21 07:26	10/29/21 17:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/29/21 07:26	10/29/21 17:25		1.015	0.000980	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/29/21 07:26	10/29/21 17:25		1.015	0.00419	mg/L	0.000068	0.000203	
* Lead, Total	10/29/21 07:26	10/29/21 17:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/29/21 07:26	10/29/21 17:25		1.015	0.00120	mg/L	0.000068	0.000203	
* Potassium, Total	10/29/21 07:26	10/29/21 17:25		1.015	2.53	mg/L	0.169505	0.5075	
* Manganese, Total	10/29/21 07:26	10/29/21 17:25		1.015	0.250	mg/L	0.000068	0.000203	
* Selenium, Total	10/29/21 07:26	10/29/21 17:25		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/29/21 07:26	10/29/21 17:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	10/28/21 14:52	10/28/21 17:03		1.015	0.248	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	11/3/21 13:35	11/3/21 17:29		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	11/3/21 14:04	11/3/21 15:27		1	189	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/29/21 11:46	11/1/21 13:36		1	474	mg/L		50	

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

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-14V

Location Code: WMWBARAP
Collected: 10/26/21 15:00
Customer ID:
Submittal Date: 10/27/21 16:26

Laboratory ID Number: BB19848

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	11/3/21 14:04	11/3/21 15:27		1	189	mg/L			
Carbonate Alkalinity, (calc.)	11/3/21 14:04	11/3/21 15:27		1	0.17	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	11/2/21 12:28	11/2/21 12:28		16	191	mg/L	8.00	16	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/3/21 11:32	11/3/21 11:32		1	0.384	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/28/21 12:01	10/28/21 12:01		2	75.1	mg/L	1.00	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	10/26/21 14:56	10/26/21 14:56			904.39	uS/cm			FA
pH	10/26/21 14:56	10/26/21 14:56			6.91	SU			FA
Temperature	10/26/21 14:56	10/26/21 14:56			21.29	C			FA
Turbidity	10/26/21 14:56	10/26/21 14:56			1.74	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: WMWBARAP
Sample Date: 10/26/21 15:00
Customer ID:
Delivery Date: 10/27/21 16:26

Description: Barry Ash Pond - MW-14V

Laboratory ID Number: BB19848

Sample	Analysis	Units	MB					Standard		Rec			Prec Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BB19961	Potassium, Total	mg/L	0.0269	0.367	10.0	12.2	11.8	9.62	8.50 to 11.5	97.1	70.0 to 130	3.33	20.0
BB19961	Calcium, Total	mg/L	0.00171	0.152	5.00	16.3	16.3	5.14	4.25 to 5.75	98.0	70.0 to 130	0.00	20.0
BB19961	Manganese, Total	mg/L	0.0000232	0.000147	0.100	0.406	0.399	0.102	0.0850 to 0.115	95.0	70.0 to 130	1.74	20.0
BB19961	Chromium, Total	mg/L	0.0000785	0.000440	0.100	0.103	0.101	0.100	0.0850 to 0.115	99.0	70.0 to 130	1.96	20.0
BB19961	Selenium, Total	mg/L	0.0000268	0.00100	0.100	0.0975	0.0982	0.0998	0.0850 to 0.115	97.5	70.0 to 130	0.715	20.0
BB19961	Molybdenum, Total	mg/L	0.000022	0.000147	0.100	0.0949	0.0942	0.0988	0.0850 to 0.115	94.4	70.0 to 130	0.740	20.0
BB19961	Antimony, Total	mg/L	0.000107	0.00100	0.100	0.0949	0.0930	0.0917	0.0850 to 0.115	94.9	70.0 to 130	2.02	20.0
BB19961	Barium, Total	mg/L	0.0000278	0.000200	0.100	0.158	0.158	0.0970	0.0850 to 0.115	92.9	70.0 to 130	0.00	20.0
BB19961	Boron, Total	mg/L	0.00101	0.0650	1.00	1.09	1.10	1.01	0.850 to 1.15	102	70.0 to 130	0.913	20.0
BB19961	Cadmium, Total	mg/L	0.0000139	0.000147	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BB19961	Arsenic, Total	mg/L	0.0000095	0.000147	0.100	0.120	0.125	0.105	0.0850 to 0.115	103	70.0 to 130	4.08	20.0
BB19961	Sodium, Total	mg/L	0.00248	0.0660	5.00	86.7	84.8	5.04	4.25 to 5.75	128	70.0 to 130	2.22	20.0
BB19961	Iron, Total	mg/L	0.000340	0.0176	0.2	33.4	32.8	0.206	0.170 to 0.230	600	70.0 to 130	1.81	20.0
BB19961	Cobalt, Total	mg/L	0.0000038	0.000147	0.100	0.106	0.104	0.104	0.0850 to 0.115	105	70.0 to 130	1.90	20.0
BB19961	Thallium, Total	mg/L	0.0000083	0.000147	0.100	0.0963	0.0953	0.0988	0.0850 to 0.115	96.3	70.0 to 130	1.04	20.0
BB19961	Lead, Total	mg/L	0.0000034	0.000147	0.100	0.0991	0.0991	0.105	0.0850 to 0.115	99.0	70.0 to 130	0.00	20.0
BB19849	Iron, Dissolved	mg/L	5.970E-05	0.0176	0.2	31.2	31.3	0.202	0.170 to 0.230	-100	70.0 to 130	0.320	20.0
BB19961	Lithium, Total	mg/L	6.190E-05	0.0154	0.200	0.218	0.219	0.198	0.170 to 0.230	109	70.0 to 130	0.458	20.0
BB19849	Manganese, Dissolved	mg/L	0.0000140	0.000147	0.100	0.568	0.557	0.103	0.0850 to 0.115	78.0	70.0 to 130	1.96	20.0
BB19961	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00396	0.00401	0.00399	0.00340 to 0.00460	99.0	70.0 to 130	1.25	20.0
BB19961	Beryllium, Total	mg/L	0.000028	0.000880	0.100	0.0908	0.0914	0.0911	0.0850 to 0.115	90.8	70.0 to 130	0.659	20.0
BB19961	Magnesium, Total	mg/L	0.000355	0.0462	5.00	11.7	11.7	5.13	4.25 to 5.75	103	70.0 to 130	0.00	20.0

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

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/26/21 15:00
Customer ID:
Delivery Date: 10/27/21 16:26

Description: Barry Ash Pond - MW-14V

Laboratory ID Number: BB19848

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB19961	Chloride	mg/L	0.00266	1.00	80.0	129	44.4	10.1	9.00 to 11.0	108	80.0 to 120	3.44	20.0
BB19849	Alkalinity, Total as CaCO3	mg/L					152	48.5	45.0 to 55.0			0.660	10.0
BB19961	Fluoride	mg/L	-0.00973	0.100	2.50	2.65	0.0702	2.53	2.25 to 2.75	103	80.0 to 120	7.54	20.0
BB19850	Sulfate	mg/L	-0.464	1.00	20.0	20.3	-0.300	20.9	18.0 to 22.0	102	80.0 to 120	0.00	20.0
BB19849	Solids, Dissolved	mg/L	0.0000	25.0			274	51.0	40.0 to 60.0			2.17	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: Barry Ash Pond - MW-13

Location Code: WMWBARAP
Collected: 10/26/21 15:52
Customer ID:
Submittal Date: 10/27/21 16:26

Laboratory ID Number: BB19849

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	11/1/21 08:14	11/2/21 11:56		1.015	0.0511	mg/L	0.030000	0.1015	J
* Calcium, Total	11/1/21 08:14	11/2/21 11:56		1.015	12.3	mg/L	0.070035	0.406	
* Iron, Total	11/1/21 08:14	11/2/21 14:11		20.3	31.6	mg/L	0.1624	0.812	
* Lithium, Total	11/1/21 08:14	11/2/21 11:56		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/1/21 08:14	11/2/21 11:56		1.015	6.84	mg/L	0.021315	0.406	
* Sodium, Total	11/1/21 08:14	11/2/21 14:11		20.3	57.1	mg/L	0.609	8.12	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	11/1/21 08:38	11/3/21 11:03		10.15	31.4	mg/L	0.08120	0.406	RA
Analytical Method: EPA 200.8		Analyst: ABB			Preparation Method: EPA 1638				
* Antimony, Total	10/29/21 07:26	10/29/21 17:29		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/29/21 07:26	10/29/21 17:29		1.015	0.0130	mg/L	0.000068	0.000203	
* Barium, Total	10/29/21 07:26	10/29/21 17:29		1.015	0.0667	mg/L	0.000102	0.000203	
* Beryllium, Total	10/29/21 07:26	10/29/21 17:29		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/29/21 07:26	10/29/21 17:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/29/21 07:26	10/29/21 17:29		1.015	0.00755	mg/L	0.000203	0.001015	
* Cobalt, Total	10/29/21 07:26	10/29/21 17:29		1.015	0.00122	mg/L	0.000068	0.000203	
* Lead, Total	10/29/21 07:26	10/29/21 17:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/29/21 07:26	10/29/21 17:29		1.015	0.000432	mg/L	0.000068	0.000203	
* Potassium, Total	10/29/21 07:26	10/29/21 17:29		1.015	1.99	mg/L	0.169505	0.5075	
* Manganese, Total	10/29/21 07:26	10/29/21 17:29		1.015	0.497	mg/L	0.000068	0.000203	
* Selenium, Total	10/29/21 07:26	10/29/21 17:29		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/29/21 07:26	10/29/21 17:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	10/28/21 14:52	10/28/21 17:06		1.015	0.490	mg/L	0.000068	0.000203	RA
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	11/3/21 13:35	11/3/21 17:33		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	11/3/21 14:04	11/3/21 15:27		1	151	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/29/21 11:46	11/1/21 13:36		1	280	mg/L		25	

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

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-13

Location Code: WMWBARAP
Collected: 10/26/21 15:52
Customer ID:
Submittal Date: 10/27/21 16:26

Laboratory ID Number: BB19849

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	11/3/21 14:04	11/3/21 15:27		1	151	mg/L			
Carbonate Alkalinity, (calc.)	11/3/21 14:04	11/3/21 15:27		1	0.03	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	11/2/21 12:29	11/2/21 12:29		5	38.4	mg/L	2.50	5	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/3/21 11:33	11/3/21 11:33		1	0.0641	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/28/21 11:56	10/28/21 11:56		1	21.0	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	10/26/21 15:48	10/26/21 15:48			426.66	uS/cm			FA
pH	10/26/21 15:48	10/26/21 15:48			5.69	SU			FA
Temperature	10/26/21 15:48	10/26/21 15:48			20.78	C			FA
Turbidity	10/26/21 15:48	10/26/21 15:48			2.09	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/26/21 15:52
Customer ID:
Delivery Date: 10/27/21 16:26

Description: Barry Ash Pond - MW-13

Laboratory ID Number: BB19849

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB19961	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00396	0.00401	0.00399	0.00340 to 0.00460	99.0	70.0 to 130	1.25	20.0
BB19961	Beryllium, Total	mg/L	0.000028	0.000880	0.100	0.0908	0.0914	0.0911	0.0850 to 0.115	90.8	70.0 to 130	0.659	20.0
BB19961	Magnesium, Total	mg/L	0.000355	0.0462	5.00	11.7	11.7	5.13	4.25 to 5.75	103	70.0 to 130	0.00	20.0
BB19961	Potassium, Total	mg/L	0.0269	0.367	10.0	12.2	11.8	9.62	8.50 to 11.5	97.1	70.0 to 130	3.33	20.0
BB19961	Molybdenum, Total	mg/L	0.000022	0.000147	0.100	0.0949	0.0942	0.0988	0.0850 to 0.115	94.4	70.0 to 130	0.740	20.0
BB19961	Antimony, Total	mg/L	0.000107	0.00100	0.100	0.0949	0.0930	0.0917	0.0850 to 0.115	94.9	70.0 to 130	2.02	20.0
BB19961	Barium, Total	mg/L	0.0000278	0.000200	0.100	0.158	0.158	0.0970	0.0850 to 0.115	92.9	70.0 to 130	0.00	20.0
BB19961	Iron, Total	mg/L	0.000340	0.0176	0.2	33.4	32.8	0.206	0.170 to 0.230	600	70.0 to 130	1.81	20.0
BB19961	Cobalt, Total	mg/L	0.0000038	0.000147	0.100	0.106	0.104	0.104	0.0850 to 0.115	105	70.0 to 130	1.90	20.0
BB19961	Selenium, Total	mg/L	0.0000268	0.00100	0.100	0.0975	0.0982	0.0998	0.0850 to 0.115	97.5	70.0 to 130	0.715	20.0
BB19961	Thallium, Total	mg/L	0.0000083	0.000147	0.100	0.0963	0.0953	0.0988	0.0850 to 0.115	96.3	70.0 to 130	1.04	20.0
BB19961	Lead, Total	mg/L	0.0000034	0.000147	0.100	0.0991	0.0991	0.105	0.0850 to 0.115	99.0	70.0 to 130	0.00	20.0
BB19849	Iron, Dissolved	mg/L	5.970E-05	0.0176	0.2	31.2	31.3	0.202	0.170 to 0.230	-100	70.0 to 130	0.320	20.0
BB19961	Lithium, Total	mg/L	6.190E-05	0.0154	0.200	0.218	0.219	0.198	0.170 to 0.230	109	70.0 to 130	0.458	20.0
BB19849	Manganese, Dissolved	mg/L	0.0000140	0.000147	0.100	0.568	0.557	0.103	0.0850 to 0.115	78.0	70.0 to 130	1.96	20.0
BB19961	Calcium, Total	mg/L	0.00171	0.152	5.00	16.3	16.3	5.14	4.25 to 5.75	98.0	70.0 to 130	0.00	20.0
BB19961	Manganese, Total	mg/L	0.0000232	0.000147	0.100	0.406	0.399	0.102	0.0850 to 0.115	95.0	70.0 to 130	1.74	20.0
BB19961	Chromium, Total	mg/L	0.0000785	0.000440	0.100	0.103	0.101	0.100	0.0850 to 0.115	99.0	70.0 to 130	1.96	20.0
BB19961	Boron, Total	mg/L	0.00101	0.0650	1.00	1.09	1.10	1.01	0.850 to 1.15	102	70.0 to 130	0.913	20.0
BB19961	Cadmium, Total	mg/L	0.0000139	0.000147	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BB19961	Arsenic, Total	mg/L	0.0000095	0.000147	0.100	0.120	0.125	0.105	0.0850 to 0.115	103	70.0 to 130	4.08	20.0
BB19961	Sodium, Total	mg/L	0.00248	0.0660	5.00	86.7	84.8	5.04	4.25 to 5.75	128	70.0 to 130	2.22	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: WMWBARAP
Sample Date: 10/26/21 15:52
Customer ID:
Delivery Date: 10/27/21 16:26

Description: Barry Ash Pond - MW-13

Laboratory ID Number: BB19849

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB19961	Chloride	mg/L	0.00266	1.00	80.0	129	44.4	10.1	9.00 to 11.0	108	80.0 to 120	3.44	20.0
BB19850	Sulfate	mg/L	-0.464	1.00	20.0	20.3	-0.300	20.9	18.0 to 22.0	102	80.0 to 120	0.00	20.0
BB19849	Solids, Dissolved	mg/L	0.0000	25.0			274	51.0	40.0 to 60.0			2.17	10.0
BB19961	Fluoride	mg/L	-0.00973	0.100	2.50	2.65	0.0702	2.53	2.25 to 2.75	103	80.0 to 120	7.54	20.0
BB19849	Alkalinity, Total as CaCO3	mg/L					152	48.5	45.0 to 55.0			0.660	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: Barry Ash Pond Field Blank-1

Location Code: WMWBARAPFB
Collected: 10/26/21 16:10
Customer ID:
Submittal Date: 10/27/21 16:26

Laboratory ID Number: BB19850

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	11/1/21 08:14	11/2/21 12:00		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	11/1/21 08:14	11/2/21 12:00		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	11/1/21 08:14	11/2/21 12:00		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	11/1/21 08:14	11/2/21 12:00		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/1/21 08:14	11/2/21 12:00		1.015	Not Detected	mg/L	0.021315	0.406	U
* Sodium, Total	11/1/21 08:14	11/2/21 12:00		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8		Analyst: ABB			Preparation Method: EPA 1638				
* Antimony, Total	10/29/21 07:26	10/29/21 17:32		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/29/21 07:26	10/29/21 17:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	10/29/21 07:26	10/29/21 17:32		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Beryllium, Total	10/29/21 07:26	10/29/21 17:32		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/29/21 07:26	10/29/21 17:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/29/21 07:26	10/29/21 17:32		1.015	0.000405	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/29/21 07:26	10/29/21 17:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/29/21 07:26	10/29/21 17:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/29/21 07:26	10/29/21 17:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/29/21 07:26	10/29/21 17:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	10/29/21 07:26	10/29/21 17:32		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	10/29/21 07:26	10/29/21 17:32		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/29/21 07:26	10/29/21 17:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	11/3/21 13:35	11/3/21 17:37		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/29/21 11:46	11/1/21 13:36		1	Not Detected	mg/L		25	U
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	11/2/21 12:31	11/2/21 12:31		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/3/21 11:34	11/3/21 11:34		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/28/21 11:58	10/28/21 11:58		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Batch QC Summary

Customer Account: WMWBARAPFB

Sample Date: 10/26/21 16:10

Customer ID:

Delivery Date: 10/27/21 16:26

Description: Barry Ash Pond Field Blank-1

Laboratory ID Number: BB19850

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB19961	Selenium, Total	mg/L	0.0000268	0.00100	0.100	0.0975	0.0982	0.0998	0.0850 to 0.115	97.5	70.0 to 130	0.715	20.0
BB19961	Potassium, Total	mg/L	0.0269	0.367	10.0	12.2	11.8	9.62	8.50 to 11.5	97.1	70.0 to 130	3.33	20.0
BB19961	Molybdenum, Total	mg/L	0.000022	0.000147	0.100	0.0949	0.0942	0.0988	0.0850 to 0.115	94.4	70.0 to 130	0.740	20.0
BB19961	Antimony, Total	mg/L	0.000107	0.00100	0.100	0.0949	0.0930	0.0917	0.0850 to 0.115	94.9	70.0 to 130	2.02	20.0
BB19961	Barium, Total	mg/L	0.0000278	0.000200	0.100	0.158	0.158	0.0970	0.0850 to 0.115	92.9	70.0 to 130	0.00	20.0
BB19961	Calcium, Total	mg/L	0.00171	0.152	5.00	16.3	16.3	5.14	4.25 to 5.75	98.0	70.0 to 130	0.00	20.0
BB19961	Manganese, Total	mg/L	0.0000232	0.000147	0.100	0.406	0.399	0.102	0.0850 to 0.115	95.0	70.0 to 130	1.74	20.0
BB19961	Chromium, Total	mg/L	0.0000785	0.000440	0.100	0.103	0.101	0.100	0.0850 to 0.115	99.0	70.0 to 130	1.96	20.0
BB19961	Iron, Total	mg/L	0.000340	0.0176	0.2	33.4	32.8	0.206	0.170 to 0.230	600	70.0 to 130	1.81	20.0
BB19961	Cobalt, Total	mg/L	0.0000038	0.000147	0.100	0.106	0.104	0.104	0.0850 to 0.115	105	70.0 to 130	1.90	20.0
BB19961	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00396	0.00401	0.00399	0.00340 to 0.00460	99.0	70.0 to 130	1.25	20.0
BB19961	Beryllium, Total	mg/L	0.000028	0.000880	0.100	0.0908	0.0914	0.0911	0.0850 to 0.115	90.8	70.0 to 130	0.659	20.0
BB19961	Magnesium, Total	mg/L	0.000355	0.0462	5.00	11.7	11.7	5.13	4.25 to 5.75	103	70.0 to 130	0.00	20.0
BB19961	Boron, Total	mg/L	0.00101	0.0650	1.00	1.09	1.10	1.01	0.850 to 1.15	102	70.0 to 130	0.913	20.0
BB19961	Cadmium, Total	mg/L	0.0000139	0.000147	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BB19961	Arsenic, Total	mg/L	0.0000095	0.000147	0.100	0.120	0.125	0.105	0.0850 to 0.115	103	70.0 to 130	4.08	20.0
BB19961	Sodium, Total	mg/L	0.00248	0.0660	5.00	86.7	84.8	5.04	4.25 to 5.75	128	70.0 to 130	2.22	20.0
BB19961	Thallium, Total	mg/L	0.0000083	0.000147	0.100	0.0963	0.0953	0.0988	0.0850 to 0.115	96.3	70.0 to 130	1.04	20.0
BB19961	Lead, Total	mg/L	0.0000034	0.000147	0.100	0.0991	0.0991	0.105	0.0850 to 0.115	99.0	70.0 to 130	0.00	20.0
BB19961	Lithium, Total	mg/L	6.190E-05	0.0154	0.200	0.218	0.219	0.198	0.170 to 0.230	109	70.0 to 130	0.458	20.0

Comments:

Batch QC Summary

Customer Account: WMWBARAPFB

Sample Date: 10/26/21 16:10

Customer ID:

Delivery Date: 10/27/21 16:26

Description: Barry Ash Pond Field Blank-1

Laboratory ID Number: BB19850

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BB19961	Fluoride	mg/L	-0.00973	0.100	2.50	2.65	0.0702	2.53	2.25 to 2.75	103	80.0 to 120	7.54	20.0
BB19850	Sulfate	mg/L	-0.464	1.00	20.0	20.3	-0.300	20.9	18.0 to 22.0	102	80.0 to 120	0.00	20.0
BB19849	Solids, Dissolved	mg/L	0.0000	25.0			274	51.0	40.0 to 60.0			2.17	10.0
BB19961	Chloride	mg/L	0.00266	1.00	80.0	129	44.4	10.1	9.00 to 11.0	108	80.0 to 120	3.44	20.0

Comments:

Certificate Of Analysis

Description: Barry Ash Pond - MW-9

Location Code: WMWBARAP
Collected: 10/27/21 09:20
Customer ID:
Submittal Date: 10/28/21 14:16

Laboratory ID Number: BB19956

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	11/1/21 08:14	11/2/21 12:03		1.015	2.04	mg/L	0.030000	0.1015	
* Calcium, Total	11/1/21 08:14	11/2/21 12:03		1.015	40.3	mg/L	0.070035	0.406	
* Iron, Total	11/1/21 08:14	11/2/21 14:15		20.3	78.5	mg/L	0.1624	0.812	
* Lithium, Total	11/1/21 08:14	11/2/21 12:03		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/1/21 08:14	11/2/21 12:03		1.015	11.3	mg/L	0.021315	0.406	
* Sodium, Total	11/1/21 08:14	11/2/21 12:03		1.015	19.8	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA						
* Iron, Dissolved	11/1/21 08:38	11/3/21 11:27		50.75	77.9	mg/L	0.40600	2.03	
Analytical Method: EPA 200.8			Analyst: ABB		Preparation Method: EPA 1638				
* Antimony, Total	10/29/21 07:26	10/29/21 17:36		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/29/21 07:26	10/29/21 17:36		1.015	0.0468	mg/L	0.000068	0.000203	
* Barium, Total	10/29/21 07:26	10/29/21 17:36		1.015	0.117	mg/L	0.000102	0.000203	
* Beryllium, Total	10/29/21 07:26	10/29/21 17:36		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/29/21 07:26	10/29/21 17:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/29/21 07:26	10/29/21 17:36		1.015	0.000870	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/29/21 07:26	10/29/21 17:36		1.015	0.000702	mg/L	0.000068	0.000203	
* Lead, Total	10/29/21 07:26	10/29/21 17:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/29/21 07:26	10/29/21 17:36		1.015	0.000214	mg/L	0.000068	0.000203	
* Potassium, Total	10/29/21 07:26	10/29/21 17:36		1.015	0.853	mg/L	0.169505	0.5075	
* Manganese, Total	10/29/21 07:26	10/29/21 18:26		5.075	2.07	mg/L	0.000340	0.001015	
* Selenium, Total	10/29/21 07:26	10/29/21 17:36		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/29/21 07:26	10/29/21 17:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8			Analyst: DLJ						
* Manganese, Dissolved	10/28/21 14:52	10/29/21 12:55		5.075	1.98	mg/L	0.000340	0.001015	
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	11/3/21 13:35	11/3/21 17:41		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B			Analyst: ALH						
Alkalinity, Total as CaCO3	11/9/21 08:20	11/9/21 15:30		1	231	mg/L		0.1	
Analytical Method: SM 2540C			Analyst: CNJ						
* Solids, Dissolved	10/29/21 11:46	11/1/21 13:36		1	302	mg/L		25	

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

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-9

Location Code: WMWBARAP
Collected: 10/27/21 09:20
Customer ID:
Submittal Date: 10/28/21 14:16

Laboratory ID Number: BB19956

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/9/21 08:20	11/9/21 15:30		1	231	mg/L			
Carbonate Alkalinity, (calc.)	11/9/21 08:20	11/9/21 15:30		1	0.24	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	11/2/21 12:32	11/2/21 12:32		1	19.1	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/3/21 11:36	11/3/21 11:36		1	0.0803	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/9/21 09:17	11/9/21 09:17		1	6.33	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	10/27/21 09:18	10/27/21 09:18			520.24	uS/cm			FA
pH	10/27/21 09:18	10/27/21 09:18			6.13	SU			FA
Temperature	10/27/21 09:18	10/27/21 09:18			21.24	C			FA
Turbidity	10/27/21 09:18	10/27/21 09:18			2.28	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: WMWBARAP
Sample Date: 10/27/21 09:20
Customer ID:
Delivery Date: 10/28/21 14:16

Description: Barry Ash Pond - MW-9

Laboratory ID Number: BB19956

Sample	Analysis	Units	MB				Standard		Rec		Prec	Limit	
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec			Limit
BB19961	Selenium, Total	mg/L	0.0000268	0.00100	0.100	0.0975	0.0982	0.0998	0.0850 to 0.115	97.5	70.0 to 130	0.715	20.0
BB19961	Potassium, Total	mg/L	0.0269	0.367	10.0	12.2	11.8	9.62	8.50 to 11.5	97.1	70.0 to 130	3.33	20.0
BB19961	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00396	0.00401	0.00399	0.00340 to 0.00460	99.0	70.0 to 130	1.25	20.0
BB19961	Beryllium, Total	mg/L	0.000028	0.000880	0.100	0.0908	0.0914	0.0911	0.0850 to 0.115	90.8	70.0 to 130	0.659	20.0
BB19961	Magnesium, Total	mg/L	0.000355	0.0462	5.00	11.7	11.7	5.13	4.25 to 5.75	103	70.0 to 130	0.00	20.0
BB19961	Thallium, Total	mg/L	0.0000083	0.000147	0.100	0.0963	0.0953	0.0988	0.0850 to 0.115	96.3	70.0 to 130	1.04	20.0
BB19961	Lead, Total	mg/L	0.0000034	0.000147	0.100	0.0991	0.0991	0.105	0.0850 to 0.115	99.0	70.0 to 130	0.00	20.0
BB19961	Lithium, Total	mg/L	6.190E-05	0.0154	0.200	0.218	0.219	0.198	0.170 to 0.230	109	70.0 to 130	0.458	20.0
BB19961	Molybdenum, Total	mg/L	0.000022	0.000147	0.100	0.0949	0.0942	0.0988	0.0850 to 0.115	94.4	70.0 to 130	0.740	20.0
BB19961	Antimony, Total	mg/L	0.000107	0.00100	0.100	0.0949	0.0930	0.0917	0.0850 to 0.115	94.9	70.0 to 130	2.02	20.0
BB19961	Barium, Total	mg/L	0.0000278	0.000200	0.100	0.158	0.158	0.0970	0.0850 to 0.115	92.9	70.0 to 130	0.00	20.0
BB19961	Manganese, Dissolved	mg/L	0.0000253	0.000147	0.100	0.405	0.394	0.102	0.0850 to 0.115	106	70.0 to 130	2.75	20.0
BB19961	Calcium, Total	mg/L	0.00171	0.152	5.00	16.3	16.3	5.14	4.25 to 5.75	98.0	70.0 to 130	0.00	20.0
BB19961	Manganese, Total	mg/L	0.0000232	0.000147	0.100	0.406	0.399	0.102	0.0850 to 0.115	95.0	70.0 to 130	1.74	20.0
BB19961	Chromium, Total	mg/L	0.0000785	0.000440	0.100	0.103	0.101	0.100	0.0850 to 0.115	99.0	70.0 to 130	1.96	20.0
BB19961	Iron, Total	mg/L	0.000340	0.0176	0.2	33.4	32.8	0.206	0.170 to 0.230	600	70.0 to 130	1.81	20.0
BB19961	Cobalt, Total	mg/L	0.0000038	0.000147	0.100	0.106	0.104	0.104	0.0850 to 0.115	105	70.0 to 130	1.90	20.0
BB19961	Iron, Dissolved	mg/L	-3.330E-05	0.0176	0.2	33.6	32.0	0.201	0.170 to 0.230	800	70.0 to 130	4.88	20.0
BB19961	Boron, Total	mg/L	0.00101	0.0650	1.00	1.09	1.10	1.01	0.850 to 1.15	102	70.0 to 130	0.913	20.0
BB19961	Cadmium, Total	mg/L	0.0000139	0.000147	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BB19961	Arsenic, Total	mg/L	0.0000095	0.000147	0.100	0.120	0.125	0.105	0.0850 to 0.115	103	70.0 to 130	4.08	20.0
BB19961	Sodium, Total	mg/L	0.00248	0.0660	5.00	86.7	84.8	5.04	4.25 to 5.75	128	70.0 to 130	2.22	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: WMWBARAP
Sample Date: 10/27/21 09:20
Customer ID:
Delivery Date: 10/28/21 14:16

Description: Barry Ash Pond - MW-9

Laboratory ID Number: BB19956

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB20257	Sulfate	mg/L	0.0725	1.00	20.0	21.2	-0.226	21.2	18.0 to 22.0	106	80.0 to 120	0.00	20.0
BB20268	Alkalinity, Total as CaCO3	mg/L					6.72	51.2	45.0 to 55.0			2.93	10.0
BB19961	Solids, Dissolved	mg/L	0.0000	25.0			319	51.0	40.0 to 60.0			2.48	10.0
BB19961	Fluoride	mg/L	-0.00973	0.100	2.50	2.65	0.0702	2.53	2.25 to 2.75	103	80.0 to 120	7.54	20.0
BB19961	Chloride	mg/L	0.00266	1.00	80.0	129	44.4	10.1	9.00 to 11.0	108	80.0 to 120	3.44	20.0

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-10V

Location Code: WMWBARAP
Collected: 10/27/21 10:30
Customer ID:
Submittal Date: 10/28/21 14:16

Laboratory ID Number: BB19957

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	11/1/21 08:14	11/2/21 12:06		1.015	0.933	mg/L	0.030000	0.1015	
* Calcium, Total	11/1/21 08:14	11/2/21 14:18		50.75	61.6	mg/L	3.50175	20.3	
* Iron, Total	11/1/21 08:14	11/2/21 14:18		50.75	101	mg/L	0.40600	2.03	
* Lithium, Total	11/1/21 08:14	11/2/21 12:06		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/1/21 08:14	11/2/21 12:06		1.015	11.6	mg/L	0.021315	0.406	
* Sodium, Total	11/1/21 08:14	11/2/21 12:06		1.015	23.4	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	11/1/21 08:38	11/3/21 11:30		50.75	101	mg/L	0.40600	2.03	
Analytical Method: EPA 200.8		Analyst: ABB			Preparation Method: EPA 1638				
* Antimony, Total	10/29/21 07:26	10/29/21 17:39		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/29/21 07:26	10/29/21 17:39		1.015	0.000331	mg/L	0.000068	0.000203	
* Barium, Total	10/29/21 07:26	10/29/21 17:39		1.015	0.182	mg/L	0.000102	0.000203	
* Beryllium, Total	10/29/21 07:26	10/29/21 17:39		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/29/21 07:26	10/29/21 17:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/29/21 07:26	10/29/21 17:39		1.015	0.000677	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/29/21 07:26	10/29/21 17:39		1.015	0.000613	mg/L	0.000068	0.000203	
* Lead, Total	10/29/21 07:26	10/29/21 17:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/29/21 07:26	10/29/21 17:39		1.015	0.000143	mg/L	0.000068	0.000203	J
* Potassium, Total	10/29/21 07:26	10/29/21 17:39		1.015	2.01	mg/L	0.169505	0.5075	
* Manganese, Total	10/29/21 07:26	10/29/21 17:39		1.015	0.804	mg/L	0.000068	0.000203	
* Selenium, Total	10/29/21 07:26	10/29/21 17:39		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/29/21 07:26	10/29/21 17:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	10/28/21 14:52	10/28/21 17:39		1.015	0.799	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	11/3/21 13:35	11/3/21 17:45		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	11/9/21 08:20	11/9/21 15:30		1	319	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/29/21 11:46	11/1/21 13:36		1	400	mg/L		25	

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

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-10V

Location Code: WMWBARAP
Collected: 10/27/21 10:30
Customer ID:
Submittal Date: 10/28/21 14:16

Laboratory ID Number: BB19957

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/9/21 08:20	11/9/21 15:30		1	319	mg/L			
Carbonate Alkalinity, (calc.)	11/9/21 08:20	11/9/21 15:30		1	0.14	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	11/2/21 12:33	11/2/21 12:33		2	21.0	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/3/21 11:37	11/3/21 11:37		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/9/21 09:18	11/9/21 09:18		1	6.04	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	10/27/21 10:27	10/27/21 10:27			643.21	uS/cm			FA
pH	10/27/21 10:27	10/27/21 10:27			6.10	SU			FA
Temperature	10/27/21 10:27	10/27/21 10:27			21.38	C			FA
Turbidity	10/27/21 10:27	10/27/21 10:27			2.28	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: WMWBARAP
Sample Date: 10/27/21 10:30
Customer ID:
Delivery Date: 10/28/21 14:16

Description: Barry Ash Pond - MW-10V

Laboratory ID Number: BB19957

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB19961	Potassium, Total	mg/L	0.0269	0.367	10.0	12.2	11.8	9.62	8.50 to 11.5	97.1	70.0 to 130	3.33	20.0
BB19961	Selenium, Total	mg/L	0.0000268	0.00100	0.100	0.0975	0.0982	0.0998	0.0850 to 0.115	97.5	70.0 to 130	0.715	20.0
BB19961	Calcium, Total	mg/L	0.00171	0.152	5.00	16.3	16.3	5.14	4.25 to 5.75	98.0	70.0 to 130	0.00	20.0
BB19961	Manganese, Total	mg/L	0.0000232	0.000147	0.100	0.406	0.399	0.102	0.0850 to 0.115	95.0	70.0 to 130	1.74	20.0
BB19961	Chromium, Total	mg/L	0.0000785	0.000440	0.100	0.103	0.101	0.100	0.0850 to 0.115	99.0	70.0 to 130	1.96	20.0
BB19961	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00396	0.00401	0.00399	0.00340 to 0.00460	99.0	70.0 to 130	1.25	20.0
BB19961	Beryllium, Total	mg/L	0.000028	0.000880	0.100	0.0908	0.0914	0.0911	0.0850 to 0.115	90.8	70.0 to 130	0.659	20.0
BB19961	Magnesium, Total	mg/L	0.000355	0.0462	5.00	11.7	11.7	5.13	4.25 to 5.75	103	70.0 to 130	0.00	20.0
BB19961	Boron, Total	mg/L	0.00101	0.0650	1.00	1.09	1.10	1.01	0.850 to 1.15	102	70.0 to 130	0.913	20.0
BB19961	Cadmium, Total	mg/L	0.0000139	0.000147	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BB19961	Arsenic, Total	mg/L	0.0000095	0.000147	0.100	0.120	0.125	0.105	0.0850 to 0.115	103	70.0 to 130	4.08	20.0
BB19961	Sodium, Total	mg/L	0.00248	0.0660	5.00	86.7	84.8	5.04	4.25 to 5.75	128	70.0 to 130	2.22	20.0
BB19961	Thallium, Total	mg/L	0.0000083	0.000147	0.100	0.0963	0.0953	0.0988	0.0850 to 0.115	96.3	70.0 to 130	1.04	20.0
BB19961	Lead, Total	mg/L	0.0000034	0.000147	0.100	0.0991	0.0991	0.105	0.0850 to 0.115	99.0	70.0 to 130	0.00	20.0
BB19961	Lithium, Total	mg/L	6.190E-05	0.0154	0.200	0.218	0.219	0.198	0.170 to 0.230	109	70.0 to 130	0.458	20.0
BB19961	Iron, Total	mg/L	0.000340	0.0176	0.2	33.4	32.8	0.206	0.170 to 0.230	600	70.0 to 130	1.81	20.0
BB19961	Cobalt, Total	mg/L	0.0000038	0.000147	0.100	0.106	0.104	0.104	0.0850 to 0.115	105	70.0 to 130	1.90	20.0
BB19961	Iron, Dissolved	mg/L	-3.330E-05	0.0176	0.2	33.6	32.0	0.201	0.170 to 0.230	800	70.0 to 130	4.88	20.0
BB19961	Molybdenum, Total	mg/L	0.000022	0.000147	0.100	0.0949	0.0942	0.0988	0.0850 to 0.115	94.4	70.0 to 130	0.740	20.0
BB19961	Antimony, Total	mg/L	0.000107	0.00100	0.100	0.0949	0.0930	0.0917	0.0850 to 0.115	94.9	70.0 to 130	2.02	20.0
BB19961	Barium, Total	mg/L	0.0000278	0.000200	0.100	0.158	0.158	0.0970	0.0850 to 0.115	92.9	70.0 to 130	0.00	20.0
BB19961	Manganese, Dissolved	mg/L	0.0000253	0.000147	0.100	0.405	0.394	0.102	0.0850 to 0.115	106	70.0 to 130	2.75	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: WMWBARAP
Sample Date: 10/27/21 10:30
Customer ID:
Delivery Date: 10/28/21 14:16

Description: Barry Ash Pond - MW-10V

Laboratory ID Number: BB19957

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB19961	Chloride	mg/L	0.00266	1.00	80.0	129	44.4	10.1	9.00 to 11.0	108	80.0 to 120	3.44	20.0
BB20257	Sulfate	mg/L	0.0725	1.00	20.0	21.2	-0.226	21.2	18.0 to 22.0	106	80.0 to 120	0.00	20.0
BB20268	Alkalinity, Total as CaCO3	mg/L					6.72	51.2	45.0 to 55.0			2.93	10.0
BB19961	Solids, Dissolved	mg/L	0.0000	25.0			319	51.0	40.0 to 60.0			2.48	10.0
BB19961	Fluoride	mg/L	-0.00973	0.100	2.50	2.65	0.0702	2.53	2.25 to 2.75	103	80.0 to 120	7.54	20.0

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-10

Location Code: WMWBARAP
Collected: 10/27/21 12:00
Customer ID:
Submittal Date: 10/28/21 14:16

Laboratory ID Number: BB19958

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	11/1/21 08:14	11/2/21 12:10		1.015	2.39	mg/L	0.030000	0.1015	
* Calcium, Total	11/1/21 08:14	11/2/21 14:22		50.75	64.2	mg/L	3.50175	20.3	
* Iron, Total	11/1/21 08:14	11/2/21 14:22		50.75	69.0	mg/L	0.40600	2.03	
* Lithium, Total	11/1/21 08:14	11/2/21 12:10		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/1/21 08:14	11/2/21 12:10		1.015	18.2	mg/L	0.021315	0.406	
* Sodium, Total	11/1/21 08:14	11/2/21 12:10		1.015	24.7	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA						
* Iron, Dissolved	11/1/21 08:38	11/3/21 11:34		50.75	67.0	mg/L	0.40600	2.03	
Analytical Method: EPA 200.8			Analyst: ABB		Preparation Method: EPA 1638				
* Antimony, Total	10/29/21 07:26	10/29/21 17:43		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/29/21 07:26	10/29/21 17:43		1.015	0.0705	mg/L	0.000068	0.000203	
* Barium, Total	10/29/21 07:26	10/29/21 17:43		1.015	0.0638	mg/L	0.000102	0.000203	
* Beryllium, Total	10/29/21 07:26	10/29/21 17:43		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/29/21 07:26	10/29/21 17:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/29/21 07:26	10/29/21 17:43		1.015	0.000724	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/29/21 07:26	10/29/21 17:43		1.015	0.000645	mg/L	0.000068	0.000203	
* Lead, Total	10/29/21 07:26	10/29/21 17:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/29/21 07:26	10/29/21 17:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	10/29/21 07:26	10/29/21 17:43		1.015	1.42	mg/L	0.169505	0.5075	
* Manganese, Total	10/29/21 07:26	10/29/21 18:29		5.075	1.84	mg/L	0.000340	0.001015	
* Selenium, Total	10/29/21 07:26	10/29/21 17:43		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/29/21 07:26	10/29/21 17:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8			Analyst: DLJ						
* Manganese, Dissolved	10/28/21 14:52	10/29/21 12:59		5.075	1.75	mg/L	0.000340	0.001015	
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	11/3/21 13:35	11/3/21 17:49		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B			Analyst: ALH						
Alkalinity, Total as CaCO3	11/9/21 08:20	11/9/21 15:30		1	290	mg/L		0.1	
Analytical Method: SM 2540C			Analyst: CNJ						
* Solids, Dissolved	10/29/21 11:46	11/1/21 13:36		1	373	mg/L		25	

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

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-10

Location Code: WMWBARAP
Collected: 10/27/21 12:00
Customer ID:
Submittal Date: 10/28/21 14:16

Laboratory ID Number: BB19958

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/9/21 08:20	11/9/21 15:30		1	290	mg/L			
Carbonate Alkalinity, (calc.)	11/9/21 08:20	11/9/21 15:30		1	0.28	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	11/2/21 12:34	11/2/21 12:34		2	27.2	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/3/21 11:38	11/3/21 11:38		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/9/21 09:20	11/9/21 09:20		1	5.72	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	10/27/21 11:59	10/27/21 11:59			599.63	uS/cm			FA
pH	10/27/21 11:59	10/27/21 11:59			5.91	SU			FA
Temperature	10/27/21 11:59	10/27/21 11:59			21.40	C			FA
Turbidity	10/27/21 11:59	10/27/21 11:59			1.64	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/27/21 12:00
Customer ID:
Delivery Date: 10/28/21 14:16

Description: Barry Ash Pond - MW-10

Laboratory ID Number: BB19958

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB19961	Selenium, Total	mg/L	0.0000268	0.00100	0.100	0.0975	0.0982	0.0998	0.0850 to 0.115	97.5	70.0 to 130	0.715	20.0
BB19961	Potassium, Total	mg/L	0.0269	0.367	10.0	12.2	11.8	9.62	8.50 to 11.5	97.1	70.0 to 130	3.33	20.0
BB19961	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00396	0.00401	0.00399	0.00340 to 0.00460	99.0	70.0 to 130	1.25	20.0
BB19961	Beryllium, Total	mg/L	0.000028	0.000880	0.100	0.0908	0.0914	0.0911	0.0850 to 0.115	90.8	70.0 to 130	0.659	20.0
BB19961	Magnesium, Total	mg/L	0.000355	0.0462	5.00	11.7	11.7	5.13	4.25 to 5.75	103	70.0 to 130	0.00	20.0
BB19961	Calcium, Total	mg/L	0.00171	0.152	5.00	16.3	16.3	5.14	4.25 to 5.75	98.0	70.0 to 130	0.00	20.0
BB19961	Manganese, Total	mg/L	0.0000232	0.000147	0.100	0.406	0.399	0.102	0.0850 to 0.115	95.0	70.0 to 130	1.74	20.0
BB19961	Chromium, Total	mg/L	0.0000785	0.000440	0.100	0.103	0.101	0.100	0.0850 to 0.115	99.0	70.0 to 130	1.96	20.0
BB19961	Iron, Total	mg/L	0.000340	0.0176	0.2	33.4	32.8	0.206	0.170 to 0.230	600	70.0 to 130	1.81	20.0
BB19961	Cobalt, Total	mg/L	0.0000038	0.000147	0.100	0.106	0.104	0.104	0.0850 to 0.115	105	70.0 to 130	1.90	20.0
BB19961	Iron, Dissolved	mg/L	-3.330E-05	0.0176	0.2	33.6	32.0	0.201	0.170 to 0.230	800	70.0 to 130	4.88	20.0
BB19961	Thallium, Total	mg/L	0.0000083	0.000147	0.100	0.0963	0.0953	0.0988	0.0850 to 0.115	96.3	70.0 to 130	1.04	20.0
BB19961	Lead, Total	mg/L	0.0000034	0.000147	0.100	0.0991	0.0991	0.105	0.0850 to 0.115	99.0	70.0 to 130	0.00	20.0
BB19961	Lithium, Total	mg/L	6.190E-05	0.0154	0.200	0.218	0.219	0.198	0.170 to 0.230	109	70.0 to 130	0.458	20.0
BB19961	Boron, Total	mg/L	0.00101	0.0650	1.00	1.09	1.10	1.01	0.850 to 1.15	102	70.0 to 130	0.913	20.0
BB19961	Cadmium, Total	mg/L	0.0000139	0.000147	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BB19961	Arsenic, Total	mg/L	0.0000095	0.000147	0.100	0.120	0.125	0.105	0.0850 to 0.115	103	70.0 to 130	4.08	20.0
BB19961	Sodium, Total	mg/L	0.00248	0.0660	5.00	86.7	84.8	5.04	4.25 to 5.75	128	70.0 to 130	2.22	20.0
BB19961	Molybdenum, Total	mg/L	0.000022	0.000147	0.100	0.0949	0.0942	0.0988	0.0850 to 0.115	94.4	70.0 to 130	0.740	20.0
BB19961	Antimony, Total	mg/L	0.000107	0.00100	0.100	0.0949	0.0930	0.0917	0.0850 to 0.115	94.9	70.0 to 130	2.02	20.0
BB19961	Barium, Total	mg/L	0.0000278	0.000200	0.100	0.158	0.158	0.0970	0.0850 to 0.115	92.9	70.0 to 130	0.00	20.0
BB19961	Manganese, Dissolved	mg/L	0.0000253	0.000147	0.100	0.405	0.394	0.102	0.0850 to 0.115	106	70.0 to 130	2.75	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: WMWBARAP
Sample Date: 10/27/21 12:00
Customer ID:
Delivery Date: 10/28/21 14:16

Description: Barry Ash Pond - MW-10

Laboratory ID Number: BB19958

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB19961	Chloride	mg/L	0.00266	1.00	80.0	129	44.4	10.1	9.00 to 11.0	108	80.0 to 120	3.44	20.0
BB20257	Sulfate	mg/L	0.0725	1.00	20.0	21.2	-0.226	21.2	18.0 to 22.0	106	80.0 to 120	0.00	20.0
BB20268	Alkalinity, Total as CaCO3	mg/L					6.72	51.2	45.0 to 55.0			2.93	10.0
BB19961	Solids, Dissolved	mg/L	0.0000	25.0			319	51.0	40.0 to 60.0			2.48	10.0
BB19961	Fluoride	mg/L	-0.00973	0.100	2.50	2.65	0.0702	2.53	2.25 to 2.75	103	80.0 to 120	7.54	20.0

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-7

Location Code: WMWBARAP
Collected: 10/27/21 09:57
Customer ID:
Submittal Date: 10/28/21 14:16

Laboratory ID Number: BB19959

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	11/1/21 08:14	11/2/21 12:13		1.015	0.0427	mg/L	0.030000	0.1015	J
* Calcium, Total	11/1/21 08:14	11/2/21 12:13		1.015	10.0	mg/L	0.070035	0.406	
* Iron, Total	11/1/21 08:14	11/2/21 14:25		10.15	13.9	mg/L	0.08120	0.406	
* Lithium, Total	11/1/21 08:14	11/2/21 12:13		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/1/21 08:14	11/2/21 12:13		1.015	7.33	mg/L	0.021315	0.406	
* Sodium, Total	11/1/21 08:14	11/2/21 12:13		1.015	24.0	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	11/1/21 08:38	11/3/21 11:37		10.15	13.4	mg/L	0.08120	0.406	
Analytical Method: EPA 200.8		Analyst: ABB			Preparation Method: EPA 1638				
* Antimony, Total	10/29/21 07:26	10/29/21 17:46		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/29/21 07:26	10/29/21 17:46		1.015	0.0236	mg/L	0.000068	0.000203	
* Barium, Total	10/29/21 07:26	10/29/21 17:46		1.015	0.0664	mg/L	0.000102	0.000203	
* Beryllium, Total	10/29/21 07:26	10/29/21 17:46		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/29/21 07:26	10/29/21 17:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/29/21 07:26	10/29/21 17:46		1.015	0.00309	mg/L	0.000203	0.001015	
* Cobalt, Total	10/29/21 07:26	10/29/21 17:46		1.015	0.0206	mg/L	0.000068	0.000203	
* Lead, Total	10/29/21 07:26	10/29/21 17:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/29/21 07:26	10/29/21 17:46		1.015	0.000182	mg/L	0.000068	0.000203	J
* Potassium, Total	10/29/21 07:26	10/29/21 17:46		1.015	2.24	mg/L	0.169505	0.5075	
* Manganese, Total	10/29/21 07:26	10/29/21 17:46		1.015	0.527	mg/L	0.000068	0.000203	
* Selenium, Total	10/29/21 07:26	10/29/21 17:46		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/29/21 07:26	10/29/21 17:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	10/28/21 14:52	10/28/21 17:46		1.015	0.511	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	11/3/21 13:35	11/3/21 17:53		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	11/9/21 08:20	11/9/21 15:30		1	100	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/29/21 11:46	11/1/21 13:36		1	123	mg/L		25	

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

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-7

Location Code: WMWBARAP
Collected: 10/27/21 09:57
Customer ID:
Submittal Date: 10/28/21 14:16

Laboratory ID Number: BB19959

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/9/21 08:20	11/9/21 15:30		1	99.9	mg/L			
Carbonate Alkalinity, (calc.)	11/9/21 08:20	11/9/21 15:30		1	0.10	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	11/2/21 12:35	11/2/21 12:35		1	15.3	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/3/21 11:39	11/3/21 11:39		1	0.0823	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/9/21 09:21	11/9/21 09:21		1	5.17	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	10/27/21 09:54	10/27/21 09:54			241.68	uS/cm			FA
pH	10/27/21 09:54	10/27/21 09:54			6.35	SU			FA
Temperature	10/27/21 09:54	10/27/21 09:54			21.45	C			FA
Turbidity	10/27/21 09:54	10/27/21 09:54			4.81	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/27/21 09:57
Customer ID:
Delivery Date: 10/28/21 14:16

Description: Barry Ash Pond - MW-7

Laboratory ID Number: BB19959

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec		
BB19961	Selenium, Total	mg/L	0.0000268	0.00100	0.100	0.0975	0.0982	0.0998	0.0850 to 0.115	97.5	70.0 to 130	0.715	20.0	
BB19961	Potassium, Total	mg/L	0.0269	0.367	10.0	12.2	11.8	9.62	8.50 to 11.5	97.1	70.0 to 130	3.33	20.0	
BB19961	Thallium, Total	mg/L	0.0000083	0.000147	0.100	0.0963	0.0953	0.0988	0.0850 to 0.115	96.3	70.0 to 130	1.04	20.0	
BB19961	Lead, Total	mg/L	0.0000034	0.000147	0.100	0.0991	0.0991	0.105	0.0850 to 0.115	99.0	70.0 to 130	0.00	20.0	
BB19961	Lithium, Total	mg/L	6.190E-05	0.0154	0.200	0.218	0.219	0.198	0.170 to 0.230	109	70.0 to 130	0.458	20.0	
BB19961	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00396	0.00401	0.00399	0.00340 to 0.00460	99.0	70.0 to 130	1.25	20.0	
BB19961	Beryllium, Total	mg/L	0.000028	0.000880	0.100	0.0908	0.0914	0.0911	0.0850 to 0.115	90.8	70.0 to 130	0.659	20.0	
BB19961	Magnesium, Total	mg/L	0.000355	0.0462	5.00	11.7	11.7	5.13	4.25 to 5.75	103	70.0 to 130	0.00	20.0	
BB19961	Iron, Total	mg/L	0.000340	0.0176	0.2	33.4	32.8	0.206	0.170 to 0.230	600	70.0 to 130	1.81	20.0	
BB19961	Cobalt, Total	mg/L	0.0000038	0.000147	0.100	0.106	0.104	0.104	0.0850 to 0.115	105	70.0 to 130	1.90	20.0	
BB19961	Iron, Dissolved	mg/L	-3.330E-05	0.0176	0.2	33.6	32.0	0.201	0.170 to 0.230	800	70.0 to 130	4.88	20.0	
BB19961	Boron, Total	mg/L	0.00101	0.0650	1.00	1.09	1.10	1.01	0.850 to 1.15	102	70.0 to 130	0.913	20.0	
BB19961	Cadmium, Total	mg/L	0.0000139	0.000147	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0	
BB19961	Arsenic, Total	mg/L	0.0000095	0.000147	0.100	0.120	0.125	0.105	0.0850 to 0.115	103	70.0 to 130	4.08	20.0	
BB19961	Sodium, Total	mg/L	0.00248	0.0660	5.00	86.7	84.8	5.04	4.25 to 5.75	128	70.0 to 130	2.22	20.0	
BB19961	Molybdenum, Total	mg/L	0.000022	0.000147	0.100	0.0949	0.0942	0.0988	0.0850 to 0.115	94.4	70.0 to 130	0.740	20.0	
BB19961	Antimony, Total	mg/L	0.000107	0.00100	0.100	0.0949	0.0930	0.0917	0.0850 to 0.115	94.9	70.0 to 130	2.02	20.0	
BB19961	Barium, Total	mg/L	0.0000278	0.000200	0.100	0.158	0.158	0.0970	0.0850 to 0.115	92.9	70.0 to 130	0.00	20.0	
BB19961	Manganese, Dissolved	mg/L	0.0000253	0.000147	0.100	0.405	0.394	0.102	0.0850 to 0.115	106	70.0 to 130	2.75	20.0	
BB19961	Calcium, Total	mg/L	0.00171	0.152	5.00	16.3	16.3	5.14	4.25 to 5.75	98.0	70.0 to 130	0.00	20.0	
BB19961	Manganese, Total	mg/L	0.0000232	0.000147	0.100	0.406	0.399	0.102	0.0850 to 0.115	95.0	70.0 to 130	1.74	20.0	
BB19961	Chromium, Total	mg/L	0.0000785	0.000440	0.100	0.103	0.101	0.100	0.0850 to 0.115	99.0	70.0 to 130	1.96	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: WMWBARAP
Sample Date: 10/27/21 09:57
Customer ID:
Delivery Date: 10/28/21 14:16

Description: Barry Ash Pond - MW-7

Laboratory ID Number: BB19959

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB20257	Sulfate	mg/L	0.0725	1.00	20.0	21.2	-0.226	21.2	18.0 to 22.0	106	80.0 to 120	0.00	20.0
BB19961	Chloride	mg/L	0.00266	1.00	80.0	129	44.4	10.1	9.00 to 11.0	108	80.0 to 120	3.44	20.0
BB20268	Alkalinity, Total as CaCO3	mg/L					6.72	51.2	45.0 to 55.0			2.93	10.0
BB19961	Solids, Dissolved	mg/L	0.0000	25.0			319	51.0	40.0 to 60.0			2.48	10.0
BB19961	Fluoride	mg/L	-0.00973	0.100	2.50	2.65	0.0702	2.53	2.25 to 2.75	103	80.0 to 120	7.54	20.0

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-7V

Location Code: WMWBARAP
Collected: 10/27/21 10:42
Customer ID:
Submittal Date: 10/28/21 14:16

Laboratory ID Number: BB19960

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	11/1/21 08:14	11/2/21 12:16		1.015	0.0546	mg/L	0.030000	0.1015	J
* Calcium, Total	11/1/21 08:14	11/2/21 12:16		1.015	17.2	mg/L	0.070035	0.406	
* Iron, Total	11/1/21 08:14	11/2/21 14:28		10.15	19.6	mg/L	0.08120	0.406	
* Lithium, Total	11/1/21 08:14	11/2/21 12:16		1.015	0.00746	mg/L	0.007105	0.01999956	J
* Magnesium, Total	11/1/21 08:14	11/2/21 12:16		1.015	11.4	mg/L	0.021315	0.406	
* Sodium, Total	11/1/21 08:14	11/2/21 12:16		1.015	28.0	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	11/1/21 08:38	11/3/21 11:40		10.15	19.7	mg/L	0.08120	0.406	
Analytical Method: EPA 200.8		Analyst: ABB			Preparation Method: EPA 1638				
* Antimony, Total	10/29/21 07:26	10/29/21 17:50		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/29/21 07:26	10/29/21 17:50		1.015	0.00270	mg/L	0.000068	0.000203	
* Barium, Total	10/29/21 07:26	10/29/21 17:50		1.015	0.0684	mg/L	0.000102	0.000203	
* Beryllium, Total	10/29/21 07:26	10/29/21 17:50		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/29/21 07:26	10/29/21 17:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/29/21 07:26	10/29/21 17:50		1.015	0.000515	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/29/21 07:26	10/29/21 17:50		1.015	0.000134	mg/L	0.000068	0.000203	J
* Lead, Total	10/29/21 07:26	10/29/21 17:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/29/21 07:26	10/29/21 17:50		1.015	0.000456	mg/L	0.000068	0.000203	
* Potassium, Total	10/29/21 07:26	10/29/21 17:50		1.015	2.68	mg/L	0.169505	0.5075	
* Manganese, Total	10/29/21 07:26	10/29/21 17:50		1.015	0.212	mg/L	0.000068	0.000203	
* Selenium, Total	10/29/21 07:26	10/29/21 17:50		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/29/21 07:26	10/29/21 17:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	10/28/21 14:52	10/28/21 17:49		1.015	0.196	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	11/3/21 13:35	11/3/21 17:57		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	11/9/21 08:20	11/9/21 15:30		1	133	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/29/21 11:46	11/1/21 13:36		1	169	mg/L		25	

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

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-7V

Location Code: WMWBARAP
Collected: 10/27/21 10:42
Customer ID:
Submittal Date: 10/28/21 14:16

Laboratory ID Number: BB19960

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/9/21 08:20	11/9/21 15:30		1	133	mg/L			
Carbonate Alkalinity, (calc.)	11/9/21 08:20	11/9/21 15:30		1	0.10	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	11/2/21 12:37	11/2/21 12:37		1	18.9	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/3/21 11:40	11/3/21 11:40		1	0.0795	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/9/21 09:22	11/9/21 09:22		1	5.31	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	10/27/21 10:38	10/27/21 10:38			319.93	uS/cm			FA
pH	10/27/21 10:38	10/27/21 10:38			6.78	SU			FA
Temperature	10/27/21 10:38	10/27/21 10:38			21.81	C			FA
Turbidity	10/27/21 10:38	10/27/21 10:38			2.43	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: WMWBARAP
Sample Date: 10/27/21 10:42
Customer ID:
Delivery Date: 10/28/21 14:16

Description: Barry Ash Pond - MW-7V

Laboratory ID Number: BB19960

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB19961	Potassium, Total	mg/L	0.0269	0.367	10.0	12.2	11.8	9.62	8.50 to 11.5	97.1	70.0 to 130	3.33	20.0
BB19961	Selenium, Total	mg/L	0.0000268	0.00100	0.100	0.0975	0.0982	0.0998	0.0850 to 0.115	97.5	70.0 to 130	0.715	20.0
BB19961	Iron, Total	mg/L	0.000340	0.0176	0.2	33.4	32.8	0.206	0.170 to 0.230	600	70.0 to 130	1.81	20.0
BB19961	Cobalt, Total	mg/L	0.0000038	0.000147	0.100	0.106	0.104	0.104	0.0850 to 0.115	105	70.0 to 130	1.90	20.0
BB19961	Iron, Dissolved	mg/L	-3.330E-05	0.0176	0.2	33.6	32.0	0.201	0.170 to 0.230	800	70.0 to 130	4.88	20.0
BB19961	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00396	0.00401	0.00399	0.00340 to 0.00460	99.0	70.0 to 130	1.25	20.0
BB19961	Beryllium, Total	mg/L	0.000028	0.000880	0.100	0.0908	0.0914	0.0911	0.0850 to 0.115	90.8	70.0 to 130	0.659	20.0
BB19961	Magnesium, Total	mg/L	0.000355	0.0462	5.00	11.7	11.7	5.13	4.25 to 5.75	103	70.0 to 130	0.00	20.0
BB19961	Thallium, Total	mg/L	0.0000083	0.000147	0.100	0.0963	0.0953	0.0988	0.0850 to 0.115	96.3	70.0 to 130	1.04	20.0
BB19961	Lead, Total	mg/L	0.0000034	0.000147	0.100	0.0991	0.0991	0.105	0.0850 to 0.115	99.0	70.0 to 130	0.00	20.0
BB19961	Lithium, Total	mg/L	6.190E-05	0.0154	0.200	0.218	0.219	0.198	0.170 to 0.230	109	70.0 to 130	0.458	20.0
BB19961	Calcium, Total	mg/L	0.00171	0.152	5.00	16.3	16.3	5.14	4.25 to 5.75	98.0	70.0 to 130	0.00	20.0
BB19961	Manganese, Total	mg/L	0.0000232	0.000147	0.100	0.406	0.399	0.102	0.0850 to 0.115	95.0	70.0 to 130	1.74	20.0
BB19961	Chromium, Total	mg/L	0.0000785	0.000440	0.100	0.103	0.101	0.100	0.0850 to 0.115	99.0	70.0 to 130	1.96	20.0
BB19961	Molybdenum, Total	mg/L	0.000022	0.000147	0.100	0.0949	0.0942	0.0988	0.0850 to 0.115	94.4	70.0 to 130	0.740	20.0
BB19961	Antimony, Total	mg/L	0.000107	0.00100	0.100	0.0949	0.0930	0.0917	0.0850 to 0.115	94.9	70.0 to 130	2.02	20.0
BB19961	Barium, Total	mg/L	0.0000278	0.000200	0.100	0.158	0.158	0.0970	0.0850 to 0.115	92.9	70.0 to 130	0.00	20.0
BB19961	Manganese, Dissolved	mg/L	0.0000253	0.000147	0.100	0.405	0.394	0.102	0.0850 to 0.115	106	70.0 to 130	2.75	20.0
BB19961	Boron, Total	mg/L	0.00101	0.0650	1.00	1.09	1.10	1.01	0.850 to 1.15	102	70.0 to 130	0.913	20.0
BB19961	Cadmium, Total	mg/L	0.0000139	0.000147	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BB19961	Arsenic, Total	mg/L	0.0000095	0.000147	0.100	0.120	0.125	0.105	0.0850 to 0.115	103	70.0 to 130	4.08	20.0
BB19961	Sodium, Total	mg/L	0.00248	0.0660	5.00	86.7	84.8	5.04	4.25 to 5.75	128	70.0 to 130	2.22	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: WMWBARAP
Sample Date: 10/27/21 10:42
Customer ID:
Delivery Date: 10/28/21 14:16

Description: Barry Ash Pond - MW-7V

Laboratory ID Number: BB19960

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB20257	Sulfate	mg/L	0.0725	1.00	20.0	21.2	-0.226	21.2	18.0 to 22.0	106	80.0 to 120	0.00	20.0
BB19961	Chloride	mg/L	0.00266	1.00	80.0	129	44.4	10.1	9.00 to 11.0	108	80.0 to 120	3.44	20.0
BB20268	Alkalinity, Total as CaCO3	mg/L					6.72	51.2	45.0 to 55.0			2.93	10.0
BB19961	Solids, Dissolved	mg/L	0.0000	25.0			319	51.0	40.0 to 60.0			2.48	10.0
BB19961	Fluoride	mg/L	-0.00973	0.100	2.50	2.65	0.0702	2.53	2.25 to 2.75	103	80.0 to 120	7.54	20.0

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-14

Location Code: WMWBARAP
Collected: 10/27/21 12:07
Customer ID:
Submittal Date: 10/28/21 14:16

Laboratory ID Number: BB19961

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	11/1/21 08:14	11/2/21 12:20		1.015	0.0677	mg/L	0.030000	0.1015	J
* Calcium, Total	11/1/21 08:14	11/2/21 12:20		1.015	11.4	mg/L	0.070035	0.406	
* Iron, Total	11/1/21 08:14	11/2/21 14:32		10.15	32.2	mg/L	0.08120	0.406	RA
* Lithium, Total	11/1/21 08:14	11/2/21 12:20		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/1/21 08:14	11/2/21 12:20		1.015	6.54	mg/L	0.021315	0.406	
* Sodium, Total	11/1/21 08:14	11/2/21 14:32		10.15	80.3	mg/L	0.3045	4.06	
Analytical Method: EPA 200.7			Analyst: RDA						
* Iron, Dissolved	11/1/21 08:38	11/3/21 11:44		10.15	32.0	mg/L	0.08120	0.406	RA
Analytical Method: EPA 200.8			Analyst: ABB		Preparation Method: EPA 1638				
* Antimony, Total	10/29/21 07:26	10/29/21 17:54		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/29/21 07:26	10/29/21 17:54		1.015	0.0174	mg/L	0.000068	0.000203	
* Barium, Total	10/29/21 07:26	10/29/21 17:54		1.015	0.0651	mg/L	0.000102	0.000203	
* Beryllium, Total	10/29/21 07:26	10/29/21 17:54		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/29/21 07:26	10/29/21 17:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/29/21 07:26	10/29/21 17:54		1.015	0.00401	mg/L	0.000203	0.001015	
* Cobalt, Total	10/29/21 07:26	10/29/21 17:54		1.015	0.00125	mg/L	0.000068	0.000203	
* Lead, Total	10/29/21 07:26	10/29/21 17:54		1.015	0.0000869	mg/L	0.000068	0.000203	J
* Molybdenum, Total	10/29/21 07:26	10/29/21 17:54		1.015	0.000530	mg/L	0.000068	0.000203	
* Potassium, Total	10/29/21 07:26	10/29/21 17:54		1.015	2.49	mg/L	0.169505	0.5075	
* Manganese, Total	10/29/21 07:26	10/29/21 17:54		1.015	0.311	mg/L	0.000068	0.000203	
* Selenium, Total	10/29/21 07:26	10/29/21 17:54		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/29/21 07:26	10/29/21 17:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8			Analyst: DLJ						
* Manganese, Dissolved	10/28/21 14:52	10/28/21 17:53		1.015	0.299	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	11/3/21 13:35	11/3/21 18:01		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B			Analyst: ALH						
Alkalinity, Total as CaCO3	11/9/21 08:20	11/9/21 15:30		1	202	mg/L		0.1	
Analytical Method: SM 2540C			Analyst: CNJ						
* Solids, Dissolved	10/29/21 11:46	11/1/21 13:36		1	327	mg/L		25	

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

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-14

Location Code: WMWBARAP
Collected: 10/27/21 12:07
Customer ID:
Submittal Date: 10/28/21 14:16

Laboratory ID Number: BB19961

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/9/21 08:20	11/9/21 15:30		1	202	mg/L			
Carbonate Alkalinity, (calc.)	11/9/21 08:20	11/9/21 15:30		1	0.04	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	11/2/21 12:38	11/2/21 12:38		8	42.9	mg/L	4.00	8	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/3/21 11:42	11/3/21 11:42		1	0.0651	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/9/21 09:32	11/9/21 09:32		4	98.5	mg/L	2.00	4	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	10/27/21 12:04	10/27/21 12:04			513.72	uS/cm			FA
pH	10/27/21 12:04	10/27/21 12:04			6.41	SU			FA
Temperature	10/27/21 12:04	10/27/21 12:04			20.55	C			FA
Turbidity	10/27/21 12:04	10/27/21 12:04			4.39	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: WMWBARAP
Sample Date: 10/27/21 12:07
Customer ID:
Delivery Date: 10/28/21 14:16

Description: Barry Ash Pond - MW-14

Laboratory ID Number: BB19961

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB19961	Potassium, Total	mg/L	0.0269	0.367	10.0	12.2	11.8	9.62	8.50 to 11.5	97.1	70.0 to 130	3.33	20.0
BB19961	Selenium, Total	mg/L	0.0000268	0.00100	0.100	0.0975	0.0982	0.0998	0.0850 to 0.115	97.5	70.0 to 130	0.715	20.0
BB19961	Iron, Total	mg/L	0.000340	0.0176	0.2	33.4	32.8	0.206	0.170 to 0.230	600	70.0 to 130	1.81	20.0
BB19961	Cobalt, Total	mg/L	0.0000038	0.000147	0.100	0.106	0.104	0.104	0.0850 to 0.115	105	70.0 to 130	1.90	20.0
BB19961	Iron, Dissolved	mg/L	-3.330E-05	0.0176	0.2	33.6	32.0	0.201	0.170 to 0.230	800	70.0 to 130	4.88	20.0
BB19961	Thallium, Total	mg/L	0.0000083	0.000147	0.100	0.0963	0.0953	0.0988	0.0850 to 0.115	96.3	70.0 to 130	1.04	20.0
BB19961	Lead, Total	mg/L	0.0000034	0.000147	0.100	0.0991	0.0991	0.105	0.0850 to 0.115	99.0	70.0 to 130	0.00	20.0
BB19961	Lithium, Total	mg/L	6.190E-05	0.0154	0.200	0.218	0.219	0.198	0.170 to 0.230	109	70.0 to 130	0.458	20.0
BB19961	Molybdenum, Total	mg/L	0.000022	0.000147	0.100	0.0949	0.0942	0.0988	0.0850 to 0.115	94.4	70.0 to 130	0.740	20.0
BB19961	Antimony, Total	mg/L	0.000107	0.00100	0.100	0.0949	0.0930	0.0917	0.0850 to 0.115	94.9	70.0 to 130	2.02	20.0
BB19961	Barium, Total	mg/L	0.0000278	0.000200	0.100	0.158	0.158	0.0970	0.0850 to 0.115	92.9	70.0 to 130	0.00	20.0
BB19961	Manganese, Dissolved	mg/L	0.0000253	0.000147	0.100	0.405	0.394	0.102	0.0850 to 0.115	106	70.0 to 130	2.75	20.0
BB19961	Boron, Total	mg/L	0.00101	0.0650	1.00	1.09	1.10	1.01	0.850 to 1.15	102	70.0 to 130	0.913	20.0
BB19961	Cadmium, Total	mg/L	0.0000139	0.000147	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BB19961	Arsenic, Total	mg/L	0.0000095	0.000147	0.100	0.120	0.125	0.105	0.0850 to 0.115	103	70.0 to 130	4.08	20.0
BB19961	Sodium, Total	mg/L	0.00248	0.0660	5.00	86.7	84.8	5.04	4.25 to 5.75	128	70.0 to 130	2.22	20.0
BB19961	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00396	0.00401	0.00399	0.00340 to 0.00460	99.0	70.0 to 130	1.25	20.0
BB19961	Beryllium, Total	mg/L	0.000028	0.000880	0.100	0.0908	0.0914	0.0911	0.0850 to 0.115	90.8	70.0 to 130	0.659	20.0
BB19961	Magnesium, Total	mg/L	0.000355	0.0462	5.00	11.7	11.7	5.13	4.25 to 5.75	103	70.0 to 130	0.00	20.0
BB19961	Calcium, Total	mg/L	0.00171	0.152	5.00	16.3	16.3	5.14	4.25 to 5.75	98.0	70.0 to 130	0.00	20.0
BB19961	Manganese, Total	mg/L	0.0000232	0.000147	0.100	0.406	0.399	0.102	0.0850 to 0.115	95.0	70.0 to 130	1.74	20.0
BB19961	Chromium, Total	mg/L	0.0000785	0.000440	0.100	0.103	0.101	0.100	0.0850 to 0.115	99.0	70.0 to 130	1.96	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: WMWBARAP
Sample Date: 10/27/21 12:07
Customer ID:
Delivery Date: 10/28/21 14:16

Description: Barry Ash Pond - MW-14

Laboratory ID Number: BB19961

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB20257	Sulfate	mg/L	0.0725	1.00	20.0	21.2	-0.226	21.2	18.0 to 22.0	106	80.0 to 120	0.00	20.0
BB19961	Chloride	mg/L	0.00266	1.00	80.0	129	44.4	10.1	9.00 to 11.0	108	80.0 to 120	3.44	20.0
BB19961	Solids, Dissolved	mg/L	0.0000	25.0			319	51.0	40.0 to 60.0			2.48	10.0
BB19961	Fluoride	mg/L	-0.00973	0.100	2.50	2.65	0.0702	2.53	2.25 to 2.75	103	80.0 to 120	7.54	20.0
BB20268	Alkalinity, Total as CaCO3	mg/L					6.72	51.2	45.0 to 55.0			2.93	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: Barry Ash Pond - MW-1V

Location Code: WMWBARAP
Collected: 11/1/21 13:31
Customer ID:
Submittal Date: 11/3/21 14:02

Laboratory ID Number: BB20254

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	11/8/21 10:29	11/9/21 12:10		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	11/8/21 10:29	11/9/21 12:10		1.015	3.68	mg/L	0.070035	0.406	
* Iron, Total	11/8/21 10:29	11/9/21 12:10		1.015	1.03	mg/L	0.008120	0.0406	
* Lithium, Total	11/8/21 10:29	11/9/21 12:10		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/8/21 10:29	11/9/21 12:10		1.015	2.14	mg/L	0.021315	0.406	
* Sodium, Total	11/8/21 10:29	11/9/21 13:40		10.15	57.1	mg/L	0.3045	4.06	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	11/8/21 11:10	11/9/21 14:34		1.015	0.966	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	11/4/21 14:40	11/5/21 10:04		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	11/4/21 14:40	11/5/21 10:04		1.015	0.000856	mg/L	0.000068	0.000203	
* Barium, Total	11/4/21 14:40	11/5/21 10:04		1.015	0.0731	mg/L	0.000102	0.000203	
* Beryllium, Total	11/4/21 14:40	11/5/21 10:04		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/4/21 14:40	11/5/21 10:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/4/21 14:40	11/5/21 10:04		1.015	0.000454	mg/L	0.000203	0.001015	J
* Cobalt, Total	11/4/21 14:40	11/5/21 10:04		1.015	0.00578	mg/L	0.000068	0.000203	
* Lead, Total	11/4/21 14:40	11/5/21 10:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	11/4/21 14:40	11/5/21 10:04		1.015	0.000130	mg/L	0.000068	0.000203	J
* Potassium, Total	11/4/21 14:40	11/5/21 10:04		1.015	2.37	mg/L	0.169505	0.5075	
* Manganese, Total	11/4/21 14:40	11/5/21 10:04		1.015	0.132	mg/L	0.000068	0.000203	
* Selenium, Total	11/4/21 14:40	11/5/21 10:04		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/4/21 14:40	11/5/21 10:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	11/4/21 13:20	11/4/21 14:09		1.015	0.131	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	11/8/21 15:56	11/8/21 19:54		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	11/9/21 08:20	11/9/21 15:30		1	21.8	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	11/4/21 10:55	11/8/21 13:39		1	190	mg/L		25	

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

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-1V

Location Code: WMWBARAP
Collected: 11/1/21 13:31
Customer ID:
Submittal Date: 11/3/21 14:02

Laboratory ID Number: BB20254

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/9/21 08:20	11/9/21 15:30		1	21.8	mg/L			
Carbonate Alkalinity, (calc.)	11/9/21 08:20	11/9/21 15:30		1	0.00	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	11/5/21 13:53	11/5/21 13:53		8	79.4	mg/L	4.00	8	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/5/21 15:20	11/5/21 15:20		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/9/21 09:24	11/9/21 09:24		1	20.2	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	11/1/21 13:28	11/1/21 13:28			333.08	uS/cm			FA
pH	11/1/21 13:28	11/1/21 13:28			5.76	SU			FA
Temperature	11/1/21 13:28	11/1/21 13:28			21.75	C			FA
Turbidity	11/1/21 13:28	11/1/21 13:28			1.67	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: WMWBARAP
Sample Date: 11/1/21 13:31
Customer ID:
Delivery Date: 11/3/21 14:02

Description: Barry Ash Pond - MW-1V

Laboratory ID Number: BB20254

Sample	Analysis	Units	MB				Standard		Rec		Prec	Limit	
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec			Limit
BB20263	Magnesium, Total	mg/L	-0.000601	0.0462	5.00	6.32	6.39	5.19	4.25 to 5.75	100	70.0 to 130	1.10	20.0
BB20263	Mercury, Total by CVAA	mg/L	3.000E-05	0.000500	0.004	0.00398	0.00404	0.00393	0.00340 to 0.00460	99.5	70.0 to 130	1.50	20.0
BB20263	Potassium, Total	mg/L	0.00477	0.367	10.0	10.7	10.6	9.74	8.50 to 11.5	96.7	70.0 to 130	0.939	20.0
BB20263	Thallium, Total	mg/L	-0.0000108	0.000147	0.100	0.110	0.108	0.109	0.0850 to 0.115	110	70.0 to 130	1.83	20.0
BB20263	Antimony, Total	mg/L	0.000136	0.00100	0.100	0.0991	0.0988	0.100	0.0850 to 0.115	99.1	70.0 to 130	0.303	20.0
BB20263	Calcium, Total	mg/L	-0.0104	0.152	5.00	7.01	7.11	5.20	4.25 to 5.75	101	70.0 to 130	1.42	20.0
BB20263	Sodium, Total	mg/L	0.00239	0.0660	5.00	12.0	12.2	4.87	4.25 to 5.75	99.4	70.0 to 130	1.65	20.0
BB20263	Lithium, Total	mg/L	0.000142	0.0154	0.200	0.197	0.201	0.195	0.170 to 0.230	98.5	70.0 to 130	2.01	20.0
BB20263	Cadmium, Total	mg/L	0.0000038	0.000147	0.100	0.0996	0.101	0.0990	0.0850 to 0.115	99.5	70.0 to 130	1.40	20.0
BB20263	Boron, Total	mg/L	-0.00567	0.0650	1.00	1.03	1.06	1.03	0.850 to 1.15	103	70.0 to 130	2.87	20.0
BB20263	Lead, Total	mg/L	0.0000115	0.000147	0.100	0.108	0.112	0.111	0.0850 to 0.115	105	70.0 to 130	3.64	20.0
BB20263	Chromium, Total	mg/L	0.0000405	0.000440	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BB20263	Molybdenum, Total	mg/L	0.0000054	0.000147	0.100	0.0994	0.0969	0.104	0.0850 to 0.115	99.3	70.0 to 130	2.55	20.0
BB20263	Cobalt, Total	mg/L	-0.0000126	0.000147	0.100	0.105	0.104	0.106	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BB20263	Arsenic, Total	mg/L	0.0000244	0.000147	0.100	0.104	0.105	0.109	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BB20263	Selenium, Total	mg/L	-0.0000048	0.00100	0.100	0.0999	0.0997	0.107	0.0850 to 0.115	99.9	70.0 to 130	0.200	20.0
BB20263	Barium, Total	mg/L	-0.0000164	0.000200	0.100	0.125	0.124	0.100	0.0850 to 0.115	96.4	70.0 to 130	0.803	20.0
BB20264	Manganese, Dissolved	mg/L	0.0000281	0.000147	0.100	1.24	1.21	0.0981	0.0850 to 0.115	70.0	70.0 to 130	2.45	20.0
BB20263	Manganese, Total	mg/L	-0.0000192	0.000147	0.100	0.107	0.106	0.103	0.0850 to 0.115	101	70.0 to 130	0.939	20.0
BB20263	Beryllium, Total	mg/L	0.0000135	0.000880	0.100	0.0941	0.101	0.100	0.0850 to 0.115	94.1	70.0 to 130	7.07	20.0
BB20264	Iron, Dissolved	mg/L	3.430E-05	0.0176	0.2	85.7	86.1	0.206	0.170 to 0.230	50.0	70.0 to 130	0.466	20.0
BB20263	Iron, Total	mg/L	-9.020E-05	0.0176	0.2	0.210	0.213	0.205	0.170 to 0.230	98.1	70.0 to 130	1.42	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: WMWBARAP

Sample Date: 11/1/21 13:31

Customer ID:

Delivery Date: 11/3/21 14:02

Description: Barry Ash Pond - MW-1V

Laboratory ID Number: BB20254

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB20257	Sulfate	mg/L	0.0725	1.00	20.0	21.2	-0.226	21.2	18.0 to 22.0	106	80.0 to 120	0.00	20.0
BB20268	Alkalinity, Total as CaCO3	mg/L					6.72	51.2	45.0 to 55.0			2.93	10.0
BB20263	Chloride	mg/L	0.0392	1.00	10.0	16.9	6.49	10.4	9.00 to 11.0	105	80.0 to 120	1.40	20.0
BB20262	Solids, Dissolved	mg/L	0.0000	25.0			303	52.0	40.0 to 60.0			2.00	10.0
BB20263	Fluoride	mg/L	0.0342	0.100	2.50	2.53	0.0321	2.55	2.25 to 2.75	101	80.0 to 120	0.00	20.0

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-1

Location Code: WMWBARAP
Collected: 11/1/21 14:16
Customer ID:
Submittal Date: 11/3/21 14:02

Laboratory ID Number: BB20255

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	11/8/21 10:29	11/9/21 12:13		1.015	2.02	mg/L	0.030000	0.1015	
* Calcium, Total	11/8/21 10:29	11/9/21 12:13		1.015	38.4	mg/L	0.070035	0.406	
* Iron, Total	11/8/21 10:29	11/9/21 13:44		101.5	152	mg/L	0.8120	4.06	
* Lithium, Total	11/8/21 10:29	11/9/21 12:13		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/8/21 10:29	11/9/21 12:13		1.015	12.6	mg/L	0.021315	0.406	
* Sodium, Total	11/8/21 10:29	11/9/21 12:13		1.015	24.5	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	11/8/21 11:10	11/9/21 14:38		101.5	154	mg/L	0.8120	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	11/4/21 14:40	11/5/21 10:07		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	11/4/21 14:40	11/5/21 10:07		1.015	0.0694	mg/L	0.000068	0.000203	
* Barium, Total	11/4/21 14:40	11/5/21 10:07		1.015	0.322	mg/L	0.000102	0.000203	
* Beryllium, Total	11/4/21 14:40	11/5/21 10:07		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/4/21 14:40	11/5/21 10:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/4/21 14:40	11/5/21 10:07		1.015	0.00244	mg/L	0.000203	0.001015	
* Cobalt, Total	11/4/21 14:40	11/5/21 10:07		1.015	0.000914	mg/L	0.000068	0.000203	
* Lead, Total	11/4/21 14:40	11/5/21 10:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	11/4/21 14:40	11/5/21 10:07		1.015	0.0000775	mg/L	0.000068	0.000203	J
* Potassium, Total	11/4/21 14:40	11/5/21 10:07		1.015	2.00	mg/L	0.169505	0.5075	
* Manganese, Total	11/4/21 14:40	11/5/21 10:07		1.015	0.875	mg/L	0.000068	0.000203	
* Selenium, Total	11/4/21 14:40	11/5/21 10:07		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/4/21 14:40	11/5/21 10:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	11/4/21 13:20	11/4/21 14:13		1.015	0.876	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	11/8/21 15:56	11/8/21 19:58		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	11/9/21 08:20	11/9/21 15:30		1	405	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	11/4/21 10:55	11/8/21 13:39		1	480	mg/L		25	

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

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-1

Location Code: WMWBARAP
Collected: 11/1/21 14:16
Customer ID:
Submittal Date: 11/3/21 14:02

Laboratory ID Number: BB20255

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/9/21 08:20	11/9/21 15:30		1	405	mg/L			
Carbonate Alkalinity, (calc.)	11/9/21 08:20	11/9/21 15:30		1	0.05	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	11/5/21 13:54	11/5/21 13:54		2	26.2	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/5/21 15:22	11/5/21 15:22		1	0.181	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/9/21 09:26	11/9/21 09:26		1	10.9	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	11/1/21 14:13	11/1/21 14:13			786.55	uS/cm			FA
pH	11/1/21 14:13	11/1/21 14:13			6.01	SU			FA
Temperature	11/1/21 14:13	11/1/21 14:13			21.93	C			FA
Turbidity	11/1/21 14:13	11/1/21 14:13			3.51	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 11/1/21 14:16

Customer ID:

Delivery Date: 11/3/21 14:02

Description: Barry Ash Pond - MW-1

Laboratory ID Number: BB20255

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB20263	Potassium, Total	mg/L	0.00477	0.367	10.0	10.7	10.6	9.74	8.50 to 11.5	96.7	70.0 to 130	0.939	20.0
BB20263	Thallium, Total	mg/L	-0.0000108	0.000147	0.100	0.110	0.108	0.109	0.0850 to 0.115	110	70.0 to 130	1.83	20.0
BB20263	Magnesium, Total	mg/L	-0.000601	0.0462	5.00	6.32	6.39	5.19	4.25 to 5.75	100	70.0 to 130	1.10	20.0
BB20263	Mercury, Total by CVAA	mg/L	3.000E-05	0.000500	0.004	0.00398	0.00404	0.00393	0.00340 to 0.00460	99.5	70.0 to 130	1.50	20.0
BB20263	Chromium, Total	mg/L	0.0000405	0.000440	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BB20263	Molybdenum, Total	mg/L	0.0000054	0.000147	0.100	0.0994	0.0969	0.104	0.0850 to 0.115	99.3	70.0 to 130	2.55	20.0
BB20263	Cobalt, Total	mg/L	-0.0000126	0.000147	0.100	0.105	0.104	0.106	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BB20263	Arsenic, Total	mg/L	0.0000244	0.000147	0.100	0.104	0.105	0.109	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BB20263	Selenium, Total	mg/L	-0.0000048	0.00100	0.100	0.0999	0.0997	0.107	0.0850 to 0.115	99.9	70.0 to 130	0.200	20.0
BB20264	Iron, Dissolved	mg/L	3.430E-05	0.0176	0.2	85.7	86.1	0.206	0.170 to 0.230	50.0	70.0 to 130	0.466	20.0
BB20263	Iron, Total	mg/L	-9.020E-05	0.0176	0.2	0.210	0.213	0.205	0.170 to 0.230	98.1	70.0 to 130	1.42	20.0
BB20263	Antimony, Total	mg/L	0.000136	0.00100	0.100	0.0991	0.0988	0.100	0.0850 to 0.115	99.1	70.0 to 130	0.303	20.0
BB20263	Calcium, Total	mg/L	-0.0104	0.152	5.00	7.01	7.11	5.20	4.25 to 5.75	101	70.0 to 130	1.42	20.0
BB20263	Sodium, Total	mg/L	0.00239	0.0660	5.00	12.0	12.2	4.87	4.25 to 5.75	99.4	70.0 to 130	1.65	20.0
BB20263	Lithium, Total	mg/L	0.000142	0.0154	0.200	0.197	0.201	0.195	0.170 to 0.230	98.5	70.0 to 130	2.01	20.0
BB20263	Cadmium, Total	mg/L	0.0000038	0.000147	0.100	0.0996	0.101	0.0990	0.0850 to 0.115	99.5	70.0 to 130	1.40	20.0
BB20263	Boron, Total	mg/L	-0.00567	0.0650	1.00	1.03	1.06	1.03	0.850 to 1.15	103	70.0 to 130	2.87	20.0
BB20263	Lead, Total	mg/L	0.0000115	0.000147	0.100	0.108	0.112	0.111	0.0850 to 0.115	105	70.0 to 130	3.64	20.0
BB20263	Barium, Total	mg/L	-0.0000164	0.000200	0.100	0.125	0.124	0.100	0.0850 to 0.115	96.4	70.0 to 130	0.803	20.0
BB20264	Manganese, Dissolved	mg/L	0.0000281	0.000147	0.100	1.24	1.21	0.0981	0.0850 to 0.115	70.0	70.0 to 130	2.45	20.0
BB20263	Manganese, Total	mg/L	-0.0000192	0.000147	0.100	0.107	0.106	0.103	0.0850 to 0.115	101	70.0 to 130	0.939	20.0
BB20263	Beryllium, Total	mg/L	0.0000135	0.000880	0.100	0.0941	0.101	0.100	0.0850 to 0.115	94.1	70.0 to 130	7.07	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: WMWBARAP

Sample Date: 11/1/21 14:16

Customer ID:

Delivery Date: 11/3/21 14:02

Description: Barry Ash Pond - MW-1

Laboratory ID Number: BB20255

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB20257	Sulfate	mg/L	0.0725	1.00	20.0	21.2	-0.226	21.2	18.0 to 22.0	106	80.0 to 120	0.00	20.0
BB20268	Alkalinity, Total as CaCO3	mg/L					6.72	51.2	45.0 to 55.0			2.93	10.0
BB20263	Chloride	mg/L	0.0392	1.00	10.0	16.9	6.49	10.4	9.00 to 11.0	105	80.0 to 120	1.40	20.0
BB20262	Solids, Dissolved	mg/L	0.0000	25.0			303	52.0	40.0 to 60.0			2.00	10.0
BB20263	Fluoride	mg/L	0.0342	0.100	2.50	2.53	0.0321	2.55	2.25 to 2.75	101	80.0 to 120	0.00	20.0

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-1 DUP

Location Code: WMWBARAP
Collected: 11/1/21 14:16
Customer ID:
Submittal Date: 11/3/21 14:02

Laboratory ID Number: BB20256

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	11/8/21 10:29	11/9/21 12:16		1.015	2.01	mg/L	0.030000	0.1015	
* Calcium, Total	11/8/21 10:29	11/9/21 12:16		1.015	37.7	mg/L	0.070035	0.406	
* Iron, Total	11/8/21 10:29	11/9/21 13:47		101.5	154	mg/L	0.8120	4.06	
* Lithium, Total	11/8/21 10:29	11/9/21 12:16		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/8/21 10:29	11/9/21 12:16		1.015	12.4	mg/L	0.021315	0.406	
* Sodium, Total	11/8/21 10:29	11/9/21 12:16		1.015	24.5	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	11/8/21 11:10	11/9/21 14:41		101.5	153	mg/L	0.8120	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	11/4/21 14:40	11/5/21 10:11		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	11/4/21 14:40	11/5/21 10:11		1.015	0.0658	mg/L	0.000068	0.000203	
* Barium, Total	11/4/21 14:40	11/5/21 10:11		1.015	0.313	mg/L	0.000102	0.000203	
* Beryllium, Total	11/4/21 14:40	11/5/21 10:11		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/4/21 14:40	11/5/21 10:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/4/21 14:40	11/5/21 10:11		1.015	0.00246	mg/L	0.000203	0.001015	
* Cobalt, Total	11/4/21 14:40	11/5/21 10:11		1.015	0.000928	mg/L	0.000068	0.000203	
* Lead, Total	11/4/21 14:40	11/5/21 10:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	11/4/21 14:40	11/5/21 10:11		1.015	0.0000901	mg/L	0.000068	0.000203	J
* Potassium, Total	11/4/21 14:40	11/5/21 10:11		1.015	2.06	mg/L	0.169505	0.5075	
* Manganese, Total	11/4/21 14:40	11/5/21 10:11		1.015	0.877	mg/L	0.000068	0.000203	
* Selenium, Total	11/4/21 14:40	11/5/21 10:11		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/4/21 14:40	11/5/21 10:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	11/4/21 13:20	11/4/21 14:19		1.015	0.887	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	11/8/21 15:56	11/8/21 20:02		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	11/9/21 08:20	11/9/21 15:30		1	423	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	11/4/21 10:55	11/8/21 13:39		1	451	mg/L		25	

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

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-1 DUP

Location Code: WMWBARAP
Collected: 11/1/21 14:16
Customer ID:
Submittal Date: 11/3/21 14:02

Laboratory ID Number: BB20256

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/9/21 08:20	11/9/21 15:30		1	423	mg/L			
Carbonate Alkalinity, (calc.)	11/9/21 08:20	11/9/21 15:30		1	0.15	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	11/5/21 13:55	11/5/21 13:55		2	31.3	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/5/21 15:23	11/5/21 15:23		1	0.118	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/9/21 09:27	11/9/21 09:27		1	11.6	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	11/1/21 14:13	11/1/21 14:13			786.55	uS/cm			FA
pH	11/1/21 14:13	11/1/21 14:13			6.01	SU			FA
Temperature	11/1/21 14:13	11/1/21 14:13			21.93	C			FA
Turbidity	11/1/21 14:13	11/1/21 14:13			3.51	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 11/1/21 14:16

Customer ID:

Delivery Date: 11/3/21 14:02

Description: Barry Ash Pond - MW-1 DUP

Laboratory ID Number: BB20256

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB20263	Potassium, Total	mg/L	0.00477	0.367	10.0	10.7	10.6	9.74	8.50 to 11.5	96.7	70.0 to 130	0.939	20.0
BB20263	Thallium, Total	mg/L	-0.0000108	0.000147	0.100	0.110	0.108	0.109	0.0850 to 0.115	110	70.0 to 130	1.83	20.0
BB20263	Chromium, Total	mg/L	0.0000405	0.000440	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BB20263	Magnesium, Total	mg/L	-0.000601	0.0462	5.00	6.32	6.39	5.19	4.25 to 5.75	100	70.0 to 130	1.10	20.0
BB20263	Mercury, Total by CVAA	mg/L	3.000E-05	0.000500	0.004	0.00398	0.00404	0.00393	0.00340 to 0.00460	99.5	70.0 to 130	1.50	20.0
BB20264	Iron, Dissolved	mg/L	3.430E-05	0.0176	0.2	85.7	86.1	0.206	0.170 to 0.230	50.0	70.0 to 130	0.466	20.0
BB20263	Iron, Total	mg/L	-9.020E-05	0.0176	0.2	0.210	0.213	0.205	0.170 to 0.230	98.1	70.0 to 130	1.42	20.0
BB20263	Lithium, Total	mg/L	0.000142	0.0154	0.200	0.197	0.201	0.195	0.170 to 0.230	98.5	70.0 to 130	2.01	20.0
BB20263	Cadmium, Total	mg/L	0.0000038	0.000147	0.100	0.0996	0.101	0.0990	0.0850 to 0.115	99.5	70.0 to 130	1.40	20.0
BB20263	Boron, Total	mg/L	-0.00567	0.0650	1.00	1.03	1.06	1.03	0.850 to 1.15	103	70.0 to 130	2.87	20.0
BB20263	Lead, Total	mg/L	0.0000115	0.000147	0.100	0.108	0.112	0.111	0.0850 to 0.115	105	70.0 to 130	3.64	20.0
BB20263	Barium, Total	mg/L	-0.0000164	0.000200	0.100	0.125	0.124	0.100	0.0850 to 0.115	96.4	70.0 to 130	0.803	20.0
BB20264	Manganese, Dissolved	mg/L	0.0000281	0.000147	0.100	1.24	1.21	0.0981	0.0850 to 0.115	70.0	70.0 to 130	2.45	20.0
BB20263	Manganese, Total	mg/L	-0.0000192	0.000147	0.100	0.107	0.106	0.103	0.0850 to 0.115	101	70.0 to 130	0.939	20.0
BB20263	Beryllium, Total	mg/L	0.0000135	0.000880	0.100	0.0941	0.101	0.100	0.0850 to 0.115	94.1	70.0 to 130	7.07	20.0
BB20263	Antimony, Total	mg/L	0.000136	0.00100	0.100	0.0991	0.0988	0.100	0.0850 to 0.115	99.1	70.0 to 130	0.303	20.0
BB20263	Calcium, Total	mg/L	-0.0104	0.152	5.00	7.01	7.11	5.20	4.25 to 5.75	101	70.0 to 130	1.42	20.0
BB20263	Sodium, Total	mg/L	0.00239	0.0660	5.00	12.0	12.2	4.87	4.25 to 5.75	99.4	70.0 to 130	1.65	20.0
BB20263	Molybdenum, Total	mg/L	0.0000054	0.000147	0.100	0.0994	0.0969	0.104	0.0850 to 0.115	99.3	70.0 to 130	2.55	20.0
BB20263	Cobalt, Total	mg/L	-0.0000126	0.000147	0.100	0.105	0.104	0.106	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BB20263	Arsenic, Total	mg/L	0.0000244	0.000147	0.100	0.104	0.105	0.109	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BB20263	Selenium, Total	mg/L	-0.0000048	0.00100	0.100	0.0999	0.0997	0.107	0.0850 to 0.115	99.9	70.0 to 130	0.200	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: WMWBARAP

Sample Date: 11/1/21 14:16

Customer ID:

Delivery Date: 11/3/21 14:02

Description: Barry Ash Pond - MW-1 DUP

Laboratory ID Number: BB20256

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB20257	Sulfate	mg/L	0.0725	1.00	20.0	21.2	-0.226	21.2	18.0 to 22.0	106	80.0 to 120	0.00	20.0
BB20263	Fluoride	mg/L	0.0342	0.100	2.50	2.53	0.0321	2.55	2.25 to 2.75	101	80.0 to 120	0.00	20.0
BB20268	Alkalinity, Total as CaCO3	mg/L					6.72	51.2	45.0 to 55.0			2.93	10.0
BB20263	Chloride	mg/L	0.0392	1.00	10.0	16.9	6.49	10.4	9.00 to 11.0	105	80.0 to 120	1.40	20.0
BB20262	Solids, Dissolved	mg/L	0.0000	25.0			303	52.0	40.0 to 60.0			2.00	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: Barry Ash Pond Field Blank-4

Location Code: WMWBARAPFB
Collected: 11/1/21 14:45
Customer ID:
Submittal Date: 11/3/21 14:02

Laboratory ID Number: BB20257

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	11/8/21 10:29	11/9/21 12:20		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	11/8/21 10:29	11/9/21 12:20		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	11/8/21 10:29	11/9/21 12:20		1.015	0.00946	mg/L	0.008120	0.0406	J
* Lithium, Total	11/8/21 10:29	11/9/21 12:20		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/8/21 10:29	11/9/21 12:20		1.015	Not Detected	mg/L	0.021315	0.406	U
* Sodium, Total	11/8/21 10:29	11/9/21 12:20		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	11/4/21 14:40	11/5/21 10:14		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	11/4/21 14:40	11/5/21 10:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	11/4/21 14:40	11/5/21 10:14		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Beryllium, Total	11/4/21 14:40	11/5/21 10:14		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/4/21 14:40	11/5/21 10:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/4/21 14:40	11/5/21 10:14		1.015	0.000234	mg/L	0.000203	0.001015	J
* Cobalt, Total	11/4/21 14:40	11/5/21 10:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	11/4/21 14:40	11/5/21 10:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	11/4/21 14:40	11/5/21 10:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	11/4/21 14:40	11/5/21 10:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	11/4/21 14:40	11/5/21 10:14		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	11/4/21 14:40	11/5/21 10:14		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/4/21 14:40	11/5/21 10:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	11/8/21 15:56	11/8/21 20:06		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: CNJ						
* Solids, Dissolved	11/4/21 10:55	11/8/21 13:39		1	Not Detected	mg/L		25	U
Analytical Method: SM4500CI E			Analyst: JCC						
* Chloride	11/5/21 13:56	11/5/21 13:56		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	11/5/21 15:24	11/5/21 15:24		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011			Analyst: JCC						
* Sulfate	11/9/21 09:28	11/9/21 09:28		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Batch QC Summary

Customer Account: WMWBARAPFB
Sample Date: 11/1/21 14:45
Customer ID:
Delivery Date: 11/3/21 14:02

Description: Barry Ash Pond Field Blank-4

Laboratory ID Number: BB20257

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB20263	Iron, Total	mg/L	-9.020E-05	0.0176	0.2	0.210	0.213	0.205	0.170 to 0.230	98.1	70.0 to 130	1.42	20.0
BB20263	Potassium, Total	mg/L	0.00477	0.367	10.0	10.7	10.6	9.74	8.50 to 11.5	96.7	70.0 to 130	0.939	20.0
BB20263	Thallium, Total	mg/L	-0.0000108	0.000147	0.100	0.110	0.108	0.109	0.0850 to 0.115	110	70.0 to 130	1.83	20.0
BB20263	Magnesium, Total	mg/L	-0.000601	0.0462	5.00	6.32	6.39	5.19	4.25 to 5.75	100	70.0 to 130	1.10	20.0
BB20263	Mercury, Total by CVAA	mg/L	3.000E-05	0.000500	0.004	0.00398	0.00404	0.00393	0.00340 to 0.00460	99.5	70.0 to 130	1.50	20.0
BB20263	Molybdenum, Total	mg/L	0.0000054	0.000147	0.100	0.0994	0.0969	0.104	0.0850 to 0.115	99.3	70.0 to 130	2.55	20.0
BB20263	Cobalt, Total	mg/L	-0.0000126	0.000147	0.100	0.105	0.104	0.106	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BB20263	Arsenic, Total	mg/L	0.0000244	0.000147	0.100	0.104	0.105	0.109	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BB20263	Selenium, Total	mg/L	-0.0000048	0.00100	0.100	0.0999	0.0997	0.107	0.0850 to 0.115	99.9	70.0 to 130	0.200	20.0
BB20263	Chromium, Total	mg/L	0.0000405	0.000440	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BB20263	Antimony, Total	mg/L	0.000136	0.00100	0.100	0.0991	0.0988	0.100	0.0850 to 0.115	99.1	70.0 to 130	0.303	20.0
BB20263	Calcium, Total	mg/L	-0.0104	0.152	5.00	7.01	7.11	5.20	4.25 to 5.75	101	70.0 to 130	1.42	20.0
BB20263	Sodium, Total	mg/L	0.00239	0.0660	5.00	12.0	12.2	4.87	4.25 to 5.75	99.4	70.0 to 130	1.65	20.0
BB20263	Lithium, Total	mg/L	0.000142	0.0154	0.200	0.197	0.201	0.195	0.170 to 0.230	98.5	70.0 to 130	2.01	20.0
BB20263	Cadmium, Total	mg/L	0.0000038	0.000147	0.100	0.0996	0.101	0.0990	0.0850 to 0.115	99.5	70.0 to 130	1.40	20.0
BB20263	Boron, Total	mg/L	-0.00567	0.0650	1.00	1.03	1.06	1.03	0.850 to 1.15	103	70.0 to 130	2.87	20.0
BB20263	Lead, Total	mg/L	0.0000115	0.000147	0.100	0.108	0.112	0.111	0.0850 to 0.115	105	70.0 to 130	3.64	20.0
BB20263	Barium, Total	mg/L	-0.0000164	0.000200	0.100	0.125	0.124	0.100	0.0850 to 0.115	96.4	70.0 to 130	0.803	20.0
BB20263	Manganese, Total	mg/L	-0.0000192	0.000147	0.100	0.107	0.106	0.103	0.0850 to 0.115	101	70.0 to 130	0.939	20.0
BB20263	Beryllium, Total	mg/L	0.0000135	0.000880	0.100	0.0941	0.101	0.100	0.0850 to 0.115	94.1	70.0 to 130	7.07	20.0

Comments:

Batch QC Summary

Customer Account: WMWBARAPFB

Sample Date: 11/1/21 14:45

Customer ID:

Delivery Date: 11/3/21 14:02

Description: Barry Ash Pond Field Blank-4

Laboratory ID Number: BB20257

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BB20263	Fluoride	mg/L	0.0342	0.100	2.50	2.53	0.0321	2.55	2.25 to 2.75	101	80.0 to 120	0.00	20.0
BB20257	Sulfate	mg/L	0.0725	1.00	20.0	21.2	-0.226	21.2	18.0 to 22.0	106	80.0 to 120	0.00	20.0
BB20263	Chloride	mg/L	0.0392	1.00	10.0	16.9	6.49	10.4	9.00 to 11.0	105	80.0 to 120	1.40	20.0
BB20262	Solids, Dissolved	mg/L	0.0000	25.0			303	52.0	40.0 to 60.0			2.00	10.0

Comments:

Certificate Of Analysis

Description: Barry Ash Pond - MW-2

Location Code: WMWBARAP
Collected: 11/1/21 15:27
Customer ID:
Submittal Date: 11/3/21 14:02

Laboratory ID Number: BB20258

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	11/8/21 10:29	11/9/21 12:23		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	11/8/21 10:29	11/9/21 12:23		1.015	3.13	mg/L	0.070035	0.406		
* Iron, Total	11/8/21 10:29	11/9/21 12:23		1.015	0.501	mg/L	0.008120	0.0406		
* Lithium, Total	11/8/21 10:29	11/9/21 12:23		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	11/8/21 10:29	11/9/21 12:23		1.015	1.98	mg/L	0.021315	0.406		
* Sodium, Total	11/8/21 10:29	11/9/21 12:23		1.015	4.10	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: RDA								
* Iron, Dissolved	11/8/21 11:10	11/9/21 14:45		1.015	0.505	mg/L	0.008120	0.0406		
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	11/4/21 14:40	11/5/21 10:18		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Arsenic, Total	11/4/21 14:40	11/5/21 10:18		1.015	0.00191	mg/L	0.000068	0.000203		
* Barium, Total	11/4/21 14:40	11/5/21 10:18		1.015	0.0247	mg/L	0.000102	0.000203		
* Beryllium, Total	11/4/21 14:40	11/5/21 10:18		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	11/4/21 14:40	11/5/21 10:18		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	11/4/21 14:40	11/5/21 10:18		1.015	0.000288	mg/L	0.000203	0.001015	J	
* Cobalt, Total	11/4/21 14:40	11/5/21 10:18		1.015	0.00706	mg/L	0.000068	0.000203		
* Lead, Total	11/4/21 14:40	11/5/21 10:18		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Molybdenum, Total	11/4/21 14:40	11/5/21 10:18		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Potassium, Total	11/4/21 14:40	11/5/21 10:18		1.015	0.938	mg/L	0.169505	0.5075		
* Manganese, Total	11/4/21 14:40	11/5/21 10:18		1.015	0.317	mg/L	0.000068	0.000203		
* Selenium, Total	11/4/21 14:40	11/5/21 10:18		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	11/4/21 14:40	11/5/21 10:18		1.015	Not Detected	mg/L	0.000068	0.000203	U	
Analytical Method: EPA 200.8		Analyst: DLJ								
* Manganese, Dissolved	11/4/21 13:20	11/4/21 14:23		1.015	0.318	mg/L	0.000068	0.000203		
Analytical Method: EPA 245.1		Analyst: ABB								
* Mercury, Total by CVAA	11/8/21 15:56	11/8/21 20:10		1	Not Detected	mg/L	0.0003	0.0005	U	
Analytical Method: SM 2320 B		Analyst: ALH								
Alkalinity, Total as CaCO3	11/9/21 08:20	11/9/21 15:30		1	17.8	mg/L		0.1		
Analytical Method: SM 2540C		Analyst: CNJ								
* Solids, Dissolved	11/4/21 10:55	11/8/21 13:39		1	52.0	mg/L		25		

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

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-2

Location Code: WMWBARAP
Collected: 11/1/21 15:27
Customer ID:
Submittal Date: 11/3/21 14:02

Laboratory ID Number: BB20258

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/9/21 08:20	11/9/21 15:30		1	17.8	mg/L			
Carbonate Alkalinity, (calc.)	11/9/21 08:20	11/9/21 15:30		1	0.00	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	11/5/21 13:58	11/5/21 13:58		1	8.16	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/5/21 15:25	11/5/21 15:25		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/9/21 09:46	11/9/21 09:46		1	1.56	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	11/1/21 15:24	11/1/21 15:24			55.42	uS/cm			FA
pH	11/1/21 15:24	11/1/21 15:24			5.20	SU			FA
Temperature	11/1/21 15:24	11/1/21 15:24			21.81	C			FA
Turbidity	11/1/21 15:24	11/1/21 15:24			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: WMWBARAP
Sample Date: 11/1/21 15:27
Customer ID:
Delivery Date: 11/3/21 14:02

Description: Barry Ash Pond - MW-2

Laboratory ID Number: BB20258

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB20263	Potassium, Total	mg/L	0.00477	0.367	10.0	10.7	10.6	9.74	8.50 to 11.5	96.7	70.0 to 130	0.939	20.0
BB20263	Thallium, Total	mg/L	-0.0000108	0.000147	0.100	0.110	0.108	0.109	0.0850 to 0.115	110	70.0 to 130	1.83	20.0
BB20263	Magnesium, Total	mg/L	-0.000601	0.0462	5.00	6.32	6.39	5.19	4.25 to 5.75	100	70.0 to 130	1.10	20.0
BB20263	Mercury, Total by CVAA	mg/L	3.000E-05	0.000500	0.004	0.00398	0.00404	0.00393	0.00340 to 0.00460	99.5	70.0 to 130	1.50	20.0
BB20263	Chromium, Total	mg/L	0.0000405	0.000440	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BB20264	Iron, Dissolved	mg/L	3.430E-05	0.0176	0.2	85.7	86.1	0.206	0.170 to 0.230	50.0	70.0 to 130	0.466	20.0
BB20263	Iron, Total	mg/L	-9.020E-05	0.0176	0.2	0.210	0.213	0.205	0.170 to 0.230	98.1	70.0 to 130	1.42	20.0
BB20263	Molybdenum, Total	mg/L	0.0000054	0.000147	0.100	0.0994	0.0969	0.104	0.0850 to 0.115	99.3	70.0 to 130	2.55	20.0
BB20263	Cobalt, Total	mg/L	-0.0000126	0.000147	0.100	0.105	0.104	0.106	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BB20263	Arsenic, Total	mg/L	0.0000244	0.000147	0.100	0.104	0.105	0.109	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BB20263	Selenium, Total	mg/L	-0.0000048	0.00100	0.100	0.0999	0.0997	0.107	0.0850 to 0.115	99.9	70.0 to 130	0.200	20.0
BB20263	Antimony, Total	mg/L	0.000136	0.00100	0.100	0.0991	0.0988	0.100	0.0850 to 0.115	99.1	70.0 to 130	0.303	20.0
BB20263	Calcium, Total	mg/L	-0.0104	0.152	5.00	7.01	7.11	5.20	4.25 to 5.75	101	70.0 to 130	1.42	20.0
BB20263	Sodium, Total	mg/L	0.00239	0.0660	5.00	12.0	12.2	4.87	4.25 to 5.75	99.4	70.0 to 130	1.65	20.0
BB20263	Barium, Total	mg/L	-0.0000164	0.000200	0.100	0.125	0.124	0.100	0.0850 to 0.115	96.4	70.0 to 130	0.803	20.0
BB20264	Manganese, Dissolved	mg/L	0.0000281	0.000147	0.100	1.24	1.21	0.0981	0.0850 to 0.115	70.0	70.0 to 130	2.45	20.0
BB20263	Manganese, Total	mg/L	-0.0000192	0.000147	0.100	0.107	0.106	0.103	0.0850 to 0.115	101	70.0 to 130	0.939	20.0
BB20263	Beryllium, Total	mg/L	0.0000135	0.000880	0.100	0.0941	0.101	0.100	0.0850 to 0.115	94.1	70.0 to 130	7.07	20.0
BB20263	Lithium, Total	mg/L	0.000142	0.0154	0.200	0.197	0.201	0.195	0.170 to 0.230	98.5	70.0 to 130	2.01	20.0
BB20263	Cadmium, Total	mg/L	0.0000038	0.000147	0.100	0.0996	0.101	0.0990	0.0850 to 0.115	99.5	70.0 to 130	1.40	20.0
BB20263	Boron, Total	mg/L	-0.00567	0.0650	1.00	1.03	1.06	1.03	0.850 to 1.15	103	70.0 to 130	2.87	20.0
BB20263	Lead, Total	mg/L	0.0000115	0.000147	0.100	0.108	0.112	0.111	0.0850 to 0.115	105	70.0 to 130	3.64	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: WMWBARAP

Sample Date: 11/1/21 15:27

Customer ID:

Delivery Date: 11/3/21 14:02

Description: Barry Ash Pond - MW-2

Laboratory ID Number: BB20258

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB20267	Sulfate	mg/L	-0.0591	1.00	20.0	28.2	12.5	21.1	18.0 to 22.0	81.5	80.0 to 120	4.92	20.0
BB20268	Alkalinity, Total as CaCO3	mg/L					6.72	51.2	45.0 to 55.0			2.93	10.0
BB20263	Chloride	mg/L	0.0392	1.00	10.0	16.9	6.49	10.4	9.00 to 11.0	105	80.0 to 120	1.40	20.0
BB20262	Solids, Dissolved	mg/L	0.0000	25.0			303	52.0	40.0 to 60.0			2.00	10.0
BB20263	Fluoride	mg/L	0.0342	0.100	2.50	2.53	0.0321	2.55	2.25 to 2.75	101	80.0 to 120	0.00	20.0

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-3

Location Code: WMWBARAP
Collected: 11/1/21 16:32
Customer ID:
Submittal Date: 11/3/21 14:02

Laboratory ID Number: BB20259

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	11/8/21 10:29	11/9/21 12:27		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	11/8/21 10:29	11/9/21 12:27		1.015	1.09	mg/L	0.070035	0.406		
* Iron, Total	11/8/21 10:29	11/9/21 12:27		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	11/8/21 10:29	11/9/21 12:27		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	11/8/21 10:29	11/9/21 12:27		1.015	0.826	mg/L	0.021315	0.406		
* Sodium, Total	11/8/21 10:29	11/9/21 12:27		1.015	4.65	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Iron, Dissolved	11/8/21 11:10	11/9/21 14:48		1.015	Not Detected	mg/L	0.008120	0.0406	U	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	11/4/21 14:40	11/5/21 10:21		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Arsenic, Total	11/4/21 14:40	11/5/21 10:21		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Barium, Total	11/4/21 14:40	11/5/21 10:21		1.015	0.0371	mg/L	0.000102	0.000203		
* Beryllium, Total	11/4/21 14:40	11/5/21 10:21		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	11/4/21 14:40	11/5/21 10:21		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	11/4/21 14:40	11/5/21 10:21		1.015	0.000932	mg/L	0.000203	0.001015	J	
* Cobalt, Total	11/4/21 14:40	11/5/21 10:21		1.015	0.000156	mg/L	0.000068	0.000203	J	
* Lead, Total	11/4/21 14:40	11/5/21 10:21		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Molybdenum, Total	11/4/21 14:40	11/5/21 10:21		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Potassium, Total	11/4/21 14:40	11/5/21 10:21		1.015	1.03	mg/L	0.169505	0.5075		
* Manganese, Total	11/4/21 14:40	11/5/21 10:21		1.015	0.00707	mg/L	0.000068	0.000203		
* Selenium, Total	11/4/21 14:40	11/5/21 10:21		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	11/4/21 14:40	11/5/21 10:21		1.015	Not Detected	mg/L	0.000068	0.000203	U	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Manganese, Dissolved	11/4/21 13:20	11/4/21 14:26		1.015	0.00700	mg/L	0.000068	0.000203		
Analytical Method: EPA 245.1		Analyst: ABB			Preparation Method: EPA 1638					
* Mercury, Total by CVAA	11/8/21 15:56	11/8/21 20:14		1	Not Detected	mg/L	0.0003	0.0005	U	
Analytical Method: SM 2320 B		Analyst: ALH			Preparation Method: EPA 1638					
Alkalinity, Total as CaCO3	11/9/21 08:20	11/9/21 15:30		1	2.88	mg/L		0.1		
Analytical Method: SM 2540C		Analyst: CNJ			Preparation Method: EPA 1638					
* Solids, Dissolved	11/4/21 10:55	11/8/21 13:39		1	35.3	mg/L		25		

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

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-3

Location Code: WMWBARAP
Collected: 11/1/21 16:32
Customer ID:
Submittal Date: 11/3/21 14:02

Laboratory ID Number: BB20259

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/9/21 08:20	11/9/21 15:30		1	2.88	mg/L			
Carbonate Alkalinity, (calc.)	11/9/21 08:20	11/9/21 15:30		1	0.00	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	11/5/21 13:59	11/5/21 13:59		1	9.76	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/5/21 15:26	11/5/21 15:26		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/9/21 09:47	11/9/21 09:47		1	1.01	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	11/1/21 16:29	11/1/21 16:29			41.19	uS/cm			FA
pH	11/1/21 16:29	11/1/21 16:29			4.94	SU			FA
Temperature	11/1/21 16:29	11/1/21 16:29			21.10	C			FA
Turbidity	11/1/21 16:29	11/1/21 16:29			0.39	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: WMWBARAP
Sample Date: 11/1/21 16:32
Customer ID:
Delivery Date: 11/3/21 14:02

Description: Barry Ash Pond - MW-3

Laboratory ID Number: BB20259

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB20263	Potassium, Total	mg/L	0.00477	0.367	10.0	10.7	10.6	9.74	8.50 to 11.5	96.7	70.0 to 130	0.939	20.0
BB20263	Thallium, Total	mg/L	-0.0000108	0.000147	0.100	0.110	0.108	0.109	0.0850 to 0.115	110	70.0 to 130	1.83	20.0
BB20263	Magnesium, Total	mg/L	-0.000601	0.0462	5.00	6.32	6.39	5.19	4.25 to 5.75	100	70.0 to 130	1.10	20.0
BB20263	Mercury, Total by CVAA	mg/L	3.000E-05	0.000500	0.004	0.00398	0.00404	0.00393	0.00340 to 0.00460	99.5	70.0 to 130	1.50	20.0
BB20263	Chromium, Total	mg/L	0.0000405	0.000440	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BB20264	Iron, Dissolved	mg/L	3.430E-05	0.0176	0.2	85.7	86.1	0.206	0.170 to 0.230	50.0	70.0 to 130	0.466	20.0
BB20263	Iron, Total	mg/L	-9.020E-05	0.0176	0.2	0.210	0.213	0.205	0.170 to 0.230	98.1	70.0 to 130	1.42	20.0
BB20263	Antimony, Total	mg/L	0.000136	0.00100	0.100	0.0991	0.0988	0.100	0.0850 to 0.115	99.1	70.0 to 130	0.303	20.0
BB20263	Calcium, Total	mg/L	-0.0104	0.152	5.00	7.01	7.11	5.20	4.25 to 5.75	101	70.0 to 130	1.42	20.0
BB20263	Sodium, Total	mg/L	0.00239	0.0660	5.00	12.0	12.2	4.87	4.25 to 5.75	99.4	70.0 to 130	1.65	20.0
BB20263	Barium, Total	mg/L	-0.0000164	0.000200	0.100	0.125	0.124	0.100	0.0850 to 0.115	96.4	70.0 to 130	0.803	20.0
BB20264	Manganese, Dissolved	mg/L	0.0000281	0.000147	0.100	1.24	1.21	0.0981	0.0850 to 0.115	70.0	70.0 to 130	2.45	20.0
BB20263	Manganese, Total	mg/L	-0.0000192	0.000147	0.100	0.107	0.106	0.103	0.0850 to 0.115	101	70.0 to 130	0.939	20.0
BB20263	Beryllium, Total	mg/L	0.0000135	0.000880	0.100	0.0941	0.101	0.100	0.0850 to 0.115	94.1	70.0 to 130	7.07	20.0
BB20263	Lithium, Total	mg/L	0.000142	0.0154	0.200	0.197	0.201	0.195	0.170 to 0.230	98.5	70.0 to 130	2.01	20.0
BB20263	Cadmium, Total	mg/L	0.0000038	0.000147	0.100	0.0996	0.101	0.0990	0.0850 to 0.115	99.5	70.0 to 130	1.40	20.0
BB20263	Boron, Total	mg/L	-0.00567	0.0650	1.00	1.03	1.06	1.03	0.850 to 1.15	103	70.0 to 130	2.87	20.0
BB20263	Lead, Total	mg/L	0.0000115	0.000147	0.100	0.108	0.112	0.111	0.0850 to 0.115	105	70.0 to 130	3.64	20.0
BB20263	Molybdenum, Total	mg/L	0.0000054	0.000147	0.100	0.0994	0.0969	0.104	0.0850 to 0.115	99.3	70.0 to 130	2.55	20.0
BB20263	Cobalt, Total	mg/L	-0.0000126	0.000147	0.100	0.105	0.104	0.106	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BB20263	Arsenic, Total	mg/L	0.0000244	0.000147	0.100	0.104	0.105	0.109	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BB20263	Selenium, Total	mg/L	-0.0000048	0.00100	0.100	0.0999	0.0997	0.107	0.0850 to 0.115	99.9	70.0 to 130	0.200	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: WMWBARAP
Sample Date: 11/1/21 16:32
Customer ID:
Delivery Date: 11/3/21 14:02

Description: Barry Ash Pond - MW-3

Laboratory ID Number: BB20259

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB20267	Sulfate	mg/L	-0.0591	1.00	20.0	28.2	12.5	21.1	18.0 to 22.0	81.5	80.0 to 120	4.92	20.0
BB20263	Fluoride	mg/L	0.0342	0.100	2.50	2.53	0.0321	2.55	2.25 to 2.75	101	80.0 to 120	0.00	20.0
BB20268	Alkalinity, Total as CaCO3	mg/L					6.72	51.2	45.0 to 55.0			2.93	10.0
BB20263	Chloride	mg/L	0.0392	1.00	10.0	16.9	6.49	10.4	9.00 to 11.0	105	80.0 to 120	1.40	20.0
BB20262	Solids, Dissolved	mg/L	0.0000	25.0			303	52.0	40.0 to 60.0			2.00	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: Barry Ash Pond - MW-4

Location Code: WMWBARAP
Collected: 11/1/21 17:28
Customer ID:
Submittal Date: 11/3/21 14:03

Laboratory ID Number: BB20260

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	11/8/21 10:29	11/9/21 12:30		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	11/8/21 10:29	11/9/21 12:30		1.015	0.816	mg/L	0.070035	0.406		
* Iron, Total	11/8/21 10:29	11/9/21 12:30		1.015	0.0384	mg/L	0.008120	0.0406	J	
* Lithium, Total	11/8/21 10:29	11/9/21 12:30		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	11/8/21 10:29	11/9/21 12:30		1.015	0.646	mg/L	0.021315	0.406		
* Sodium, Total	11/8/21 10:29	11/9/21 12:30		1.015	4.35	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Iron, Dissolved	11/8/21 11:10	11/9/21 14:51		1.015	Not Detected	mg/L	0.008120	0.0406	U	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	11/4/21 14:40	11/5/21 10:25		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Arsenic, Total	11/4/21 14:40	11/5/21 10:25		1.015	0.000203	mg/L	0.000068	0.000203		
* Barium, Total	11/4/21 14:40	11/5/21 10:25		1.015	0.0217	mg/L	0.000102	0.000203		
* Beryllium, Total	11/4/21 14:40	11/5/21 10:25		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	11/4/21 14:40	11/5/21 10:25		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	11/4/21 14:40	11/5/21 10:25		1.015	0.000668	mg/L	0.000203	0.001015	J	
* Cobalt, Total	11/4/21 14:40	11/5/21 10:25		1.015	0.00478	mg/L	0.000068	0.000203		
* Lead, Total	11/4/21 14:40	11/5/21 10:25		1.015	0.0000692	mg/L	0.000068	0.000203	J	
* Molybdenum, Total	11/4/21 14:40	11/5/21 10:25		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Potassium, Total	11/4/21 14:40	11/5/21 10:25		1.015	0.938	mg/L	0.169505	0.5075		
* Manganese, Total	11/4/21 14:40	11/5/21 10:25		1.015	0.00743	mg/L	0.000068	0.000203		
* Selenium, Total	11/4/21 14:40	11/5/21 10:25		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	11/4/21 14:40	11/5/21 10:25		1.015	Not Detected	mg/L	0.000068	0.000203	U	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Manganese, Dissolved	11/4/21 13:20	11/4/21 14:30		1.015	0.00718	mg/L	0.000068	0.000203		
Analytical Method: EPA 245.1		Analyst: ABB			Preparation Method: EPA 1638					
* Mercury, Total by CVAA	11/8/21 15:56	11/8/21 20:18		1	Not Detected	mg/L	0.0003	0.0005	U	
Analytical Method: SM 2320 B		Analyst: ALH			Preparation Method: EPA 1638					
Alkalinity, Total as CaCO3	11/9/21 08:20	11/9/21 15:30		1	0.64	mg/L		0.1		
Analytical Method: SM 2540C		Analyst: CNJ			Preparation Method: EPA 1638					
* Solids, Dissolved	11/4/21 10:55	11/8/21 13:39		1	32.0	mg/L		25		

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

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-4

Location Code: WMWBARAP
Collected: 11/1/21 17:28
Customer ID:
Submittal Date: 11/3/21 14:03

Laboratory ID Number: BB20260

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/9/21 08:20	11/9/21 15:30		1	0.640	mg/L			
Carbonate Alkalinity, (calc.)	11/9/21 08:20	11/9/21 15:30		1	0.00	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	11/5/21 14:00	11/5/21 14:00		1	7.99	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/5/21 15:28	11/5/21 15:28		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/9/21 09:48	11/9/21 09:48		1	3.34	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	11/1/21 17:25	11/1/21 17:25			39.58	uS/cm			FA
pH	11/1/21 17:25	11/1/21 17:25			5.18	SU			FA
Temperature	11/1/21 17:25	11/1/21 17:25			21.36	C			FA
Turbidity	11/1/21 17:25	11/1/21 17:25			2.41	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 11/1/21 17:28
Customer ID:
Delivery Date: 11/3/21 14:03

Description: Barry Ash Pond - MW-4

Laboratory ID Number: BB20260

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB20263	Magnesium, Total	mg/L	-0.000601	0.0462	5.00	6.32	6.39	5.19	4.25 to 5.75	100	70.0 to 130	1.10	20.0
BB20263	Mercury, Total by CVAA	mg/L	3.000E-05	0.000500	0.004	0.00398	0.00404	0.00393	0.00340 to 0.00460	99.5	70.0 to 130	1.50	20.0
BB20263	Potassium, Total	mg/L	0.00477	0.367	10.0	10.7	10.6	9.74	8.50 to 11.5	96.7	70.0 to 130	0.939	20.0
BB20263	Thallium, Total	mg/L	-0.0000108	0.000147	0.100	0.110	0.108	0.109	0.0850 to 0.115	110	70.0 to 130	1.83	20.0
BB20263	Chromium, Total	mg/L	0.0000405	0.000440	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BB20263	Molybdenum, Total	mg/L	0.0000054	0.000147	0.100	0.0994	0.0969	0.104	0.0850 to 0.115	99.3	70.0 to 130	2.55	20.0
BB20263	Cobalt, Total	mg/L	-0.0000126	0.000147	0.100	0.105	0.104	0.106	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BB20263	Arsenic, Total	mg/L	0.0000244	0.000147	0.100	0.104	0.105	0.109	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BB20263	Selenium, Total	mg/L	-0.0000048	0.00100	0.100	0.0999	0.0997	0.107	0.0850 to 0.115	99.9	70.0 to 130	0.200	20.0
BB20263	Antimony, Total	mg/L	0.000136	0.00100	0.100	0.0991	0.0988	0.100	0.0850 to 0.115	99.1	70.0 to 130	0.303	20.0
BB20263	Calcium, Total	mg/L	-0.0104	0.152	5.00	7.01	7.11	5.20	4.25 to 5.75	101	70.0 to 130	1.42	20.0
BB20263	Sodium, Total	mg/L	0.00239	0.0660	5.00	12.0	12.2	4.87	4.25 to 5.75	99.4	70.0 to 130	1.65	20.0
BB20264	Iron, Dissolved	mg/L	3.430E-05	0.0176	0.2	85.7	86.1	0.206	0.170 to 0.230	50.0	70.0 to 130	0.466	20.0
BB20263	Iron, Total	mg/L	-9.020E-05	0.0176	0.2	0.210	0.213	0.205	0.170 to 0.230	98.1	70.0 to 130	1.42	20.0
BB20263	Barium, Total	mg/L	-0.0000164	0.000200	0.100	0.125	0.124	0.100	0.0850 to 0.115	96.4	70.0 to 130	0.803	20.0
BB20264	Manganese, Dissolved	mg/L	0.0000281	0.000147	0.100	1.24	1.21	0.0981	0.0850 to 0.115	70.0	70.0 to 130	2.45	20.0
BB20263	Manganese, Total	mg/L	-0.0000192	0.000147	0.100	0.107	0.106	0.103	0.0850 to 0.115	101	70.0 to 130	0.939	20.0
BB20263	Beryllium, Total	mg/L	0.0000135	0.000880	0.100	0.0941	0.101	0.100	0.0850 to 0.115	94.1	70.0 to 130	7.07	20.0
BB20263	Lithium, Total	mg/L	0.000142	0.0154	0.200	0.197	0.201	0.195	0.170 to 0.230	98.5	70.0 to 130	2.01	20.0
BB20263	Cadmium, Total	mg/L	0.0000038	0.000147	0.100	0.0996	0.101	0.0990	0.0850 to 0.115	99.5	70.0 to 130	1.40	20.0
BB20263	Boron, Total	mg/L	-0.00567	0.0650	1.00	1.03	1.06	1.03	0.850 to 1.15	103	70.0 to 130	2.87	20.0
BB20263	Lead, Total	mg/L	0.0000115	0.000147	0.100	0.108	0.112	0.111	0.0850 to 0.115	105	70.0 to 130	3.64	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: WMWBARAP

Sample Date: 11/1/21 17:28

Customer ID:

Delivery Date: 11/3/21 14:03

Description: Barry Ash Pond - MW-4

Laboratory ID Number: BB20260

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB20268	Alkalinity, Total as CaCO3	mg/L					6.72	51.2	45.0 to 55.0			2.93	10.0
BB20263	Chloride	mg/L	0.0392	1.00	10.0	16.9	6.49	10.4	9.00 to 11.0	105	80.0 to 120	1.40	20.0
BB20262	Solids, Dissolved	mg/L	0.0000	25.0			303	52.0	40.0 to 60.0			2.00	10.0
BB20267	Sulfate	mg/L	-0.0591	1.00	20.0	28.2	12.5	21.1	18.0 to 22.0	81.5	80.0 to 120	4.92	20.0
BB20263	Fluoride	mg/L	0.0342	0.100	2.50	2.53	0.0321	2.55	2.25 to 2.75	101	80.0 to 120	0.00	20.0

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-5V

Location Code: WMWBARAP
Collected: 11/2/21 09:06
Customer ID:
Submittal Date: 11/3/21 14:03

Laboratory ID Number: BB20261

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	11/8/21 10:29	11/9/21 12:33		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	11/8/21 10:29	11/9/21 12:33		1.015	2.11	mg/L	0.070035	0.406	
* Iron, Total	11/8/21 10:29	11/9/21 12:33		1.015	1.56	mg/L	0.008120	0.0406	
* Lithium, Total	11/8/21 10:29	11/9/21 12:33		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/8/21 10:29	11/9/21 12:33		1.015	1.37	mg/L	0.021315	0.406	
* Sodium, Total	11/8/21 10:29	11/9/21 12:33		1.015	23.9	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	11/8/21 11:10	11/9/21 14:55		1.015	0.0370	mg/L	0.008120	0.0406	J
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	11/4/21 14:40	11/5/21 10:28		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	11/4/21 14:40	11/5/21 10:28		1.015	0.00101	mg/L	0.000068	0.000203	
* Barium, Total	11/4/21 14:40	11/5/21 10:28		1.015	0.0368	mg/L	0.000102	0.000203	
* Beryllium, Total	11/4/21 14:40	11/5/21 10:28		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/4/21 14:40	11/5/21 10:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/4/21 14:40	11/5/21 10:28		1.015	0.000991	mg/L	0.000203	0.001015	J
* Cobalt, Total	11/4/21 14:40	11/5/21 10:28		1.015	0.000132	mg/L	0.000068	0.000203	J
* Lead, Total	11/4/21 14:40	11/5/21 10:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	11/4/21 14:40	11/5/21 10:28		1.015	0.0000805	mg/L	0.000068	0.000203	J
* Potassium, Total	11/4/21 14:40	11/5/21 10:28		1.015	1.10	mg/L	0.169505	0.5075	
* Manganese, Total	11/4/21 14:40	11/5/21 10:28		1.015	0.00449	mg/L	0.000068	0.000203	
* Selenium, Total	11/4/21 14:40	11/5/21 10:28		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/4/21 14:40	11/5/21 10:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	11/4/21 13:20	11/4/21 14:33		1.015	0.00448	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	11/8/21 15:56	11/8/21 20:22		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	11/9/21 08:20	11/9/21 15:30		1	28.0	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	11/4/21 10:55	11/8/21 13:39		1	77.3	mg/L		25	

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

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-5V

Location Code: WMWBARAP
Collected: 11/2/21 09:06
Customer ID:
Submittal Date: 11/3/21 14:03

Laboratory ID Number: BB20261

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/9/21 08:20	11/9/21 15:30		1	28.0	mg/L			
Carbonate Alkalinity, (calc.)	11/9/21 08:20	11/9/21 15:30		1	0.01	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	11/5/21 14:01	11/5/21 14:01		2	30.5	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/5/21 15:29	11/5/21 15:29		1	0.0627	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/9/21 09:50	11/9/21 09:50		1	1.34	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	11/2/21 09:03	11/2/21 09:03			126.78	uS/cm			FA
pH	11/2/21 09:03	11/2/21 09:03			6.35	SU			FA
Temperature	11/2/21 09:03	11/2/21 09:03			21.46	C			FA
Turbidity	11/2/21 09:03	11/2/21 09:03			3.71	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 11/2/21 09:06

Customer ID:

Delivery Date: 11/3/21 14:03

Description: Barry Ash Pond - MW-5V

Laboratory ID Number: BB20261

Sample	Analysis	Units	MB				Standard			Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB20264	Iron, Dissolved	mg/L	3.430E-05	0.0176	0.2	85.7	86.1	0.206	0.170 to 0.230	50.0	70.0 to 130	0.466	20.0
BB20263	Iron, Total	mg/L	-9.020E-05	0.0176	0.2	0.210	0.213	0.205	0.170 to 0.230	98.1	70.0 to 130	1.42	20.0
BB20263	Potassium, Total	mg/L	0.00477	0.367	10.0	10.7	10.6	9.74	8.50 to 11.5	96.7	70.0 to 130	0.939	20.0
BB20263	Thallium, Total	mg/L	-0.0000108	0.000147	0.100	0.110	0.108	0.109	0.0850 to 0.115	110	70.0 to 130	1.83	20.0
BB20263	Lithium, Total	mg/L	0.000142	0.0154	0.200	0.197	0.201	0.195	0.170 to 0.230	98.5	70.0 to 130	2.01	20.0
BB20263	Cadmium, Total	mg/L	0.0000038	0.000147	0.100	0.0996	0.101	0.0990	0.0850 to 0.115	99.5	70.0 to 130	1.40	20.0
BB20263	Boron, Total	mg/L	-0.00567	0.0650	1.00	1.03	1.06	1.03	0.850 to 1.15	103	70.0 to 130	2.87	20.0
BB20263	Lead, Total	mg/L	0.0000115	0.000147	0.100	0.108	0.112	0.111	0.0850 to 0.115	105	70.0 to 130	3.64	20.0
BB20263	Chromium, Total	mg/L	0.0000405	0.000440	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BB20263	Magnesium, Total	mg/L	-0.000601	0.0462	5.00	6.32	6.39	5.19	4.25 to 5.75	100	70.0 to 130	1.10	20.0
BB20263	Mercury, Total by CVAA	mg/L	3.000E-05	0.000500	0.004	0.00398	0.00404	0.00393	0.00340 to 0.00460	99.5	70.0 to 130	1.50	20.0
BB20263	Antimony, Total	mg/L	0.000136	0.00100	0.100	0.0991	0.0988	0.100	0.0850 to 0.115	99.1	70.0 to 130	0.303	20.0
BB20263	Calcium, Total	mg/L	-0.0104	0.152	5.00	7.01	7.11	5.20	4.25 to 5.75	101	70.0 to 130	1.42	20.0
BB20263	Sodium, Total	mg/L	0.00239	0.0660	5.00	12.0	12.2	4.87	4.25 to 5.75	99.4	70.0 to 130	1.65	20.0
BB20263	Barium, Total	mg/L	-0.0000164	0.000200	0.100	0.125	0.124	0.100	0.0850 to 0.115	96.4	70.0 to 130	0.803	20.0
BB20264	Manganese, Dissolved	mg/L	0.0000281	0.000147	0.100	1.24	1.21	0.0981	0.0850 to 0.115	70.0	70.0 to 130	2.45	20.0
BB20263	Manganese, Total	mg/L	-0.0000192	0.000147	0.100	0.107	0.106	0.103	0.0850 to 0.115	101	70.0 to 130	0.939	20.0
BB20263	Beryllium, Total	mg/L	0.0000135	0.000880	0.100	0.0941	0.101	0.100	0.0850 to 0.115	94.1	70.0 to 130	7.07	20.0
BB20263	Molybdenum, Total	mg/L	0.0000054	0.000147	0.100	0.0994	0.0969	0.104	0.0850 to 0.115	99.3	70.0 to 130	2.55	20.0
BB20263	Cobalt, Total	mg/L	-0.0000126	0.000147	0.100	0.105	0.104	0.106	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BB20263	Arsenic, Total	mg/L	0.0000244	0.000147	0.100	0.104	0.105	0.109	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BB20263	Selenium, Total	mg/L	-0.0000048	0.00100	0.100	0.0999	0.0997	0.107	0.0850 to 0.115	99.9	70.0 to 130	0.200	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: WMWBARAP

Sample Date: 11/2/21 09:06

Customer ID:

Delivery Date: 11/3/21 14:03

Description: Barry Ash Pond - MW-5V

Laboratory ID Number: BB20261

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB20268	Alkalinity, Total as CaCO3	mg/L					6.72	51.2	45.0 to 55.0			2.93	10.0
BB20263	Chloride	mg/L	0.0392	1.00	10.0	16.9	6.49	10.4	9.00 to 11.0	105	80.0 to 120	1.40	20.0
BB20262	Solids, Dissolved	mg/L	0.0000	25.0			303	52.0	40.0 to 60.0			2.00	10.0
BB20263	Fluoride	mg/L	0.0342	0.100	2.50	2.53	0.0321	2.55	2.25 to 2.75	101	80.0 to 120	0.00	20.0
BB20267	Sulfate	mg/L	-0.0591	1.00	20.0	28.2	12.5	21.1	18.0 to 22.0	81.5	80.0 to 120	4.92	20.0

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-5

Location Code: WMWBARAP
Collected: 11/2/21 09:46
Customer ID:
Submittal Date: 11/3/21 14:03

Laboratory ID Number: BB20262

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	11/8/21 10:29	11/9/21 12:37		1.015	0.0755	mg/L	0.030000	0.1015	J
* Calcium, Total	11/8/21 10:29	11/9/21 12:37		1.015	16.2	mg/L	0.070035	0.406	
* Iron, Total	11/8/21 10:29	11/9/21 13:50		101.5	82.5	mg/L	0.8120	4.06	
* Lithium, Total	11/8/21 10:29	11/9/21 12:37		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/8/21 10:29	11/9/21 12:37		1.015	5.46	mg/L	0.021315	0.406	
* Sodium, Total	11/8/21 10:29	11/9/21 12:37		1.015	22.4	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	11/8/21 11:10	11/9/21 14:58		101.5	83.6	mg/L	0.8120	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	11/4/21 14:40	11/5/21 10:32		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	11/4/21 14:40	11/5/21 10:32		1.015	0.0357	mg/L	0.000068	0.000203	
* Barium, Total	11/4/21 14:40	11/5/21 10:32		1.015	0.159	mg/L	0.000102	0.000203	
* Beryllium, Total	11/4/21 14:40	11/5/21 10:32		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/4/21 14:40	11/5/21 10:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/4/21 14:40	11/5/21 10:32		1.015	0.00101	mg/L	0.000203	0.001015	J
* Cobalt, Total	11/4/21 14:40	11/5/21 10:32		1.015	0.00197	mg/L	0.000068	0.000203	
* Lead, Total	11/4/21 14:40	11/5/21 10:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	11/4/21 14:40	11/5/21 10:32		1.015	0.000124	mg/L	0.000068	0.000203	J
* Potassium, Total	11/4/21 14:40	11/5/21 10:32		1.015	1.51	mg/L	0.169505	0.5075	
* Manganese, Total	11/4/21 14:40	11/5/21 10:32		1.015	0.690	mg/L	0.000068	0.000203	
* Selenium, Total	11/4/21 14:40	11/5/21 10:32		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/4/21 14:40	11/5/21 10:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	11/4/21 13:20	11/4/21 14:37		1.015	0.667	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	11/8/21 15:56	11/8/21 20:26		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	11/9/21 08:20	11/9/21 15:30		1	226	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	11/4/21 10:55	11/8/21 13:39		1	297	mg/L		25	

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

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-5

Location Code: WMWBARAP
Collected: 11/2/21 09:46
Customer ID:
Submittal Date: 11/3/21 14:03

Laboratory ID Number: BB20262

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/9/21 08:20	11/9/21 15:30		1	226	mg/L			
Carbonate Alkalinity, (calc.)	11/9/21 08:20	11/9/21 15:30		1	0.03	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	11/5/21 14:02	11/5/21 14:02		2	21.0	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/5/21 15:30	11/5/21 15:30		1	0.0964	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/9/21 09:51	11/9/21 09:51		1	15.0	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	11/2/21 09:43	11/2/21 09:43			458.97	uS/cm			FA
pH	11/2/21 09:43	11/2/21 09:43			6.36	SU			FA
Temperature	11/2/21 09:43	11/2/21 09:43			21.81	C			FA
Turbidity	11/2/21 09:43	11/2/21 09:43			0.84	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 11/2/21 09:46
Customer ID:
Delivery Date: 11/3/21 14:03

Description: Barry Ash Pond - MW-5

Laboratory ID Number: BB20262

Sample	Analysis	Units	MB					Standard		Rec			Prec Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BB20263	Potassium, Total	mg/L	0.00477	0.367	10.0	10.7	10.6	9.74	8.50 to 11.5	96.7	70.0 to 130	0.939	20.0
BB20263	Thallium, Total	mg/L	-0.0000108	0.000147	0.100	0.110	0.108	0.109	0.0850 to 0.115	110	70.0 to 130	1.83	20.0
BB20264	Iron, Dissolved	mg/L	3.430E-05	0.0176	0.2	85.7	86.1	0.206	0.170 to 0.230	50.0	70.0 to 130	0.466	20.0
BB20263	Iron, Total	mg/L	-9.020E-05	0.0176	0.2	0.210	0.213	0.205	0.170 to 0.230	98.1	70.0 to 130	1.42	20.0
BB20263	Magnesium, Total	mg/L	-0.000601	0.0462	5.00	6.32	6.39	5.19	4.25 to 5.75	100	70.0 to 130	1.10	20.0
BB20263	Mercury, Total by CVAA	mg/L	3.000E-05	0.000500	0.004	0.00398	0.00404	0.00393	0.00340 to 0.00460	99.5	70.0 to 130	1.50	20.0
BB20263	Lithium, Total	mg/L	0.000142	0.0154	0.200	0.197	0.201	0.195	0.170 to 0.230	98.5	70.0 to 130	2.01	20.0
BB20263	Cadmium, Total	mg/L	0.0000038	0.000147	0.100	0.0996	0.101	0.0990	0.0850 to 0.115	99.5	70.0 to 130	1.40	20.0
BB20263	Boron, Total	mg/L	-0.00567	0.0650	1.00	1.03	1.06	1.03	0.850 to 1.15	103	70.0 to 130	2.87	20.0
BB20263	Lead, Total	mg/L	0.0000115	0.000147	0.100	0.108	0.112	0.111	0.0850 to 0.115	105	70.0 to 130	3.64	20.0
BB20263	Barium, Total	mg/L	-0.0000164	0.000200	0.100	0.125	0.124	0.100	0.0850 to 0.115	96.4	70.0 to 130	0.803	20.0
BB20264	Manganese, Dissolved	mg/L	0.0000281	0.000147	0.100	1.24	1.21	0.0981	0.0850 to 0.115	70.0	70.0 to 130	2.45	20.0
BB20263	Manganese, Total	mg/L	-0.0000192	0.000147	0.100	0.107	0.106	0.103	0.0850 to 0.115	101	70.0 to 130	0.939	20.0
BB20263	Beryllium, Total	mg/L	0.0000135	0.000880	0.100	0.0941	0.101	0.100	0.0850 to 0.115	94.1	70.0 to 130	7.07	20.0
BB20263	Chromium, Total	mg/L	0.0000405	0.000440	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BB20263	Antimony, Total	mg/L	0.000136	0.00100	0.100	0.0991	0.0988	0.100	0.0850 to 0.115	99.1	70.0 to 130	0.303	20.0
BB20263	Calcium, Total	mg/L	-0.0104	0.152	5.00	7.01	7.11	5.20	4.25 to 5.75	101	70.0 to 130	1.42	20.0
BB20263	Sodium, Total	mg/L	0.00239	0.0660	5.00	12.0	12.2	4.87	4.25 to 5.75	99.4	70.0 to 130	1.65	20.0
BB20263	Molybdenum, Total	mg/L	0.0000054	0.000147	0.100	0.0994	0.0969	0.104	0.0850 to 0.115	99.3	70.0 to 130	2.55	20.0
BB20263	Cobalt, Total	mg/L	-0.0000126	0.000147	0.100	0.105	0.104	0.106	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BB20263	Arsenic, Total	mg/L	0.0000244	0.000147	0.100	0.104	0.105	0.109	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BB20263	Selenium, Total	mg/L	-0.0000048	0.00100	0.100	0.0999	0.0997	0.107	0.0850 to 0.115	99.9	70.0 to 130	0.200	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: WMWBARAP

Sample Date: 11/2/21 09:46

Customer ID:

Delivery Date: 11/3/21 14:03

Description: Barry Ash Pond - MW-5

Laboratory ID Number: BB20262

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB20267	Sulfate	mg/L	-0.0591	1.00	20.0	28.2	12.5	21.1	18.0 to 22.0	81.5	80.0 to 120	4.92	20.0
BB20263	Fluoride	mg/L	0.0342	0.100	2.50	2.53	0.0321	2.55	2.25 to 2.75	101	80.0 to 120	0.00	20.0
BB20268	Alkalinity, Total as CaCO3	mg/L					6.72	51.2	45.0 to 55.0			2.93	10.0
BB20263	Chloride	mg/L	0.0392	1.00	10.0	16.9	6.49	10.4	9.00 to 11.0	105	80.0 to 120	1.40	20.0
BB20262	Solids, Dissolved	mg/L	0.0000	25.0			303	52.0	40.0 to 60.0			2.00	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: Barry Ash Pond - MW-6

Location Code: WMWBARAP
Collected: 11/2/21 10:47
Customer ID:
Submittal Date: 11/3/21 14:03

Laboratory ID Number: BB20263

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	11/8/21 10:29	11/9/21 12:40		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	11/8/21 10:29	11/9/21 12:40		1.015	1.97	mg/L	0.070035	0.406	
* Iron, Total	11/8/21 10:29	11/9/21 12:40		1.015	0.0138	mg/L	0.008120	0.0406	J
* Lithium, Total	11/8/21 10:29	11/9/21 12:40		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/8/21 10:29	11/9/21 12:40		1.015	1.32	mg/L	0.021315	0.406	
* Sodium, Total	11/8/21 10:29	11/9/21 12:40		1.015	7.03	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Iron, Dissolved	11/8/21 11:10	11/9/21 15:02		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	11/4/21 14:40	11/5/21 10:35		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	11/4/21 14:40	11/5/21 10:35		1.015	0.0000983	mg/L	0.000068	0.000203	J
* Barium, Total	11/4/21 14:40	11/5/21 10:35		1.015	0.0286	mg/L	0.000102	0.000203	
* Beryllium, Total	11/4/21 14:40	11/5/21 10:35		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/4/21 14:40	11/5/21 10:35		1.015	0.0000734	mg/L	0.000068	0.000203	J
* Chromium, Total	11/4/21 14:40	11/5/21 10:35		1.015	0.000232	mg/L	0.000203	0.001015	J
* Cobalt, Total	11/4/21 14:40	11/5/21 10:35		1.015	0.000601	mg/L	0.000068	0.000203	
* Lead, Total	11/4/21 14:40	11/5/21 10:35		1.015	0.00336	mg/L	0.000068	0.000203	
* Molybdenum, Total	11/4/21 14:40	11/5/21 10:35		1.015	0.000110	mg/L	0.000068	0.000203	J
* Potassium, Total	11/4/21 14:40	11/5/21 10:35		1.015	1.03	mg/L	0.169505	0.5075	
* Manganese, Total	11/4/21 14:40	11/5/21 10:35		1.015	0.00560	mg/L	0.000068	0.000203	
* Selenium, Total	11/4/21 14:40	11/5/21 10:35		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/4/21 14:40	11/5/21 10:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Manganese, Dissolved	11/4/21 13:20	11/4/21 14:40		1.015	0.00560	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB			Preparation Method: EPA 1638				
* Mercury, Total by CVAA	11/8/21 15:56	11/8/21 20:30		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: ALH			Preparation Method: EPA 1638				
Alkalinity, Total as CaCO3	11/9/21 08:20	11/9/21 15:30		1	17.1	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ			Preparation Method: EPA 1638				
* Solids, Dissolved	11/4/21 10:55	11/8/21 13:39		1	38.0	mg/L		25	

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

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-6

Location Code: WMWBARAP
Collected: 11/2/21 10:47
Customer ID:
Submittal Date: 11/3/21 14:03

Laboratory ID Number: BB20263

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/9/21 08:20	11/9/21 15:30		1	17.1	mg/L			
Carbonate Alkalinity, (calc.)	11/9/21 08:20	11/9/21 15:30		1	0.01	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	11/5/21 14:04	11/5/21 14:04		1	6.40	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/5/21 15:31	11/5/21 15:31		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/9/21 09:52	11/9/21 09:52		1	1.37	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	11/2/21 10:44	11/2/21 10:44			53.46	uS/cm			FA
pH	11/2/21 10:44	11/2/21 10:44			5.59	SU			FA
Temperature	11/2/21 10:44	11/2/21 10:44			20.92	C			FA
Turbidity	11/2/21 10:44	11/2/21 10:44			0.26	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: WMWBARAP

Sample Date: 11/2/21 10:47

Customer ID:

Delivery Date: 11/3/21 14:03

Description: Barry Ash Pond - MW-6

Laboratory ID Number: BB20263

Sample	Analysis	Units	MB				Standard		Rec		Prec	Limit	
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec			Limit
BB20263	Magnesium, Total	mg/L	-0.000601	0.0462	5.00	6.32	6.39	5.19	4.25 to 5.75	100	70.0 to 130	1.10	20.0
BB20263	Mercury, Total by CVAA	mg/L	3.000E-05	0.000500	0.004	0.00398	0.00404	0.00393	0.00340 to 0.00460	99.5	70.0 to 130	1.50	20.0
BB20263	Chromium, Total	mg/L	0.0000405	0.000440	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BB20263	Potassium, Total	mg/L	0.00477	0.367	10.0	10.7	10.6	9.74	8.50 to 11.5	96.7	70.0 to 130	0.939	20.0
BB20263	Thallium, Total	mg/L	-0.0000108	0.000147	0.100	0.110	0.108	0.109	0.0850 to 0.115	110	70.0 to 130	1.83	20.0
BB20264	Iron, Dissolved	mg/L	3.430E-05	0.0176	0.2	85.7	86.1	0.206	0.170 to 0.230	50.0	70.0 to 130	0.466	20.0
BB20263	Iron, Total	mg/L	-9.020E-05	0.0176	0.2	0.210	0.213	0.205	0.170 to 0.230	98.1	70.0 to 130	1.42	20.0
BB20263	Antimony, Total	mg/L	0.000136	0.00100	0.100	0.0991	0.0988	0.100	0.0850 to 0.115	99.1	70.0 to 130	0.303	20.0
BB20263	Calcium, Total	mg/L	-0.0104	0.152	5.00	7.01	7.11	5.20	4.25 to 5.75	101	70.0 to 130	1.42	20.0
BB20263	Sodium, Total	mg/L	0.00239	0.0660	5.00	12.0	12.2	4.87	4.25 to 5.75	99.4	70.0 to 130	1.65	20.0
BB20263	Lithium, Total	mg/L	0.000142	0.0154	0.200	0.197	0.201	0.195	0.170 to 0.230	98.5	70.0 to 130	2.01	20.0
BB20263	Cadmium, Total	mg/L	0.0000038	0.000147	0.100	0.0996	0.101	0.0990	0.0850 to 0.115	99.5	70.0 to 130	1.40	20.0
BB20263	Boron, Total	mg/L	-0.00567	0.0650	1.00	1.03	1.06	1.03	0.850 to 1.15	103	70.0 to 130	2.87	20.0
BB20263	Lead, Total	mg/L	0.0000115	0.000147	0.100	0.108	0.112	0.111	0.0850 to 0.115	105	70.0 to 130	3.64	20.0
BB20263	Molybdenum, Total	mg/L	0.0000054	0.000147	0.100	0.0994	0.0969	0.104	0.0850 to 0.115	99.3	70.0 to 130	2.55	20.0
BB20263	Cobalt, Total	mg/L	-0.0000126	0.000147	0.100	0.105	0.104	0.106	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BB20263	Arsenic, Total	mg/L	0.0000244	0.000147	0.100	0.104	0.105	0.109	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BB20263	Selenium, Total	mg/L	-0.0000048	0.00100	0.100	0.0999	0.0997	0.107	0.0850 to 0.115	99.9	70.0 to 130	0.200	20.0
BB20263	Barium, Total	mg/L	-0.0000164	0.000200	0.100	0.125	0.124	0.100	0.0850 to 0.115	96.4	70.0 to 130	0.803	20.0
BB20264	Manganese, Dissolved	mg/L	0.0000281	0.000147	0.100	1.24	1.21	0.0981	0.0850 to 0.115	70.0	70.0 to 130	2.45	20.0
BB20263	Manganese, Total	mg/L	-0.0000192	0.000147	0.100	0.107	0.106	0.103	0.0850 to 0.115	101	70.0 to 130	0.939	20.0
BB20263	Beryllium, Total	mg/L	0.0000135	0.000880	0.100	0.0941	0.101	0.100	0.0850 to 0.115	94.1	70.0 to 130	7.07	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: WMWBARAP

Sample Date: 11/2/21 10:47

Customer ID:

Delivery Date: 11/3/21 14:03

Description: Barry Ash Pond - MW-6

Laboratory ID Number: BB20263

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB20267	Sulfate	mg/L	-0.0591	1.00	20.0	28.2	12.5	21.1	18.0 to 22.0	81.5	80.0 to 120	4.92	20.0
BB20268	Alkalinity, Total as CaCO3	mg/L					6.72	51.2	45.0 to 55.0			2.93	10.0
BB20263	Chloride	mg/L	0.0392	1.00	10.0	16.9	6.49	10.4	9.00 to 11.0	105	80.0 to 120	1.40	20.0
BB20262	Solids, Dissolved	mg/L	0.0000	25.0			303	52.0	40.0 to 60.0			2.00	10.0
BB20263	Fluoride	mg/L	0.0342	0.100	2.50	2.53	0.0321	2.55	2.25 to 2.75	101	80.0 to 120	0.00	20.0

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-12V

Location Code: WMWBARAP
Collected: 11/1/21 13:45
Customer ID:
Submittal Date: 11/3/21 14:03

Laboratory ID Number: BB20264

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	11/8/21 10:29	11/9/21 12:57		1.015	0.0962	mg/L	0.030000	0.1015	J
* Calcium, Total	11/8/21 10:29	11/9/21 12:57		1.015	21.4	mg/L	0.070035	0.406	
* Iron, Total	11/8/21 10:29	11/9/21 13:54		101.5	87.7	mg/L	0.8120	4.06	
* Lithium, Total	11/8/21 10:29	11/9/21 12:57		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/8/21 10:29	11/9/21 12:57		1.015	15.1	mg/L	0.021315	0.406	
* Sodium, Total	11/8/21 10:29	11/9/21 12:57		1.015	39.9	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	11/8/21 11:10	11/9/21 15:05		101.5	85.6	mg/L	0.8120	4.06	RA
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	11/4/21 14:40	11/5/21 10:57		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	11/4/21 14:40	11/5/21 10:57		1.015	0.0256	mg/L	0.000068	0.000203	
* Barium, Total	11/4/21 14:40	11/5/21 10:57		1.015	0.103	mg/L	0.000102	0.000203	
* Beryllium, Total	11/4/21 14:40	11/5/21 10:57		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/4/21 14:40	11/5/21 10:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/4/21 14:40	11/5/21 10:57		1.015	0.000862	mg/L	0.000203	0.001015	J
* Cobalt, Total	11/4/21 14:40	11/5/21 10:57		1.015	0.00231	mg/L	0.000068	0.000203	
* Lead, Total	11/4/21 14:40	11/5/21 10:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	11/4/21 14:40	11/5/21 10:57		1.015	0.00118	mg/L	0.000068	0.000203	
* Potassium, Total	11/4/21 14:40	11/5/21 10:57		1.015	2.50	mg/L	0.169505	0.5075	
* Manganese, Total	11/4/21 14:40	11/5/21 10:57		1.015	1.19	mg/L	0.000068	0.000203	
* Selenium, Total	11/4/21 14:40	11/5/21 10:57		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/4/21 14:40	11/5/21 10:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	11/4/21 13:20	11/4/21 14:44		1.015	1.17	mg/L	0.000068	0.000203	RA
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	11/8/21 15:56	11/8/21 20:57		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	11/9/21 08:20	11/9/21 15:30		1	280	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	11/4/21 10:55	11/8/21 13:39		1	352	mg/L		25	

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

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-12V

Location Code: WMWBARAP
Collected: 11/1/21 13:45
Customer ID:
Submittal Date: 11/3/21 14:03

Laboratory ID Number: BB20264

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/9/21 08:20	11/9/21 15:30		1	280	mg/L			
Carbonate Alkalinity, (calc.)	11/9/21 08:20	11/9/21 15:30		1	0.07	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	11/5/21 14:19	11/5/21 14:19		2	26.1	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/5/21 15:43	11/5/21 15:43		1	0.123	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/9/21 09:53	11/9/21 09:53		1	10.9	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	11/1/21 13:42	11/1/21 13:42			652.92	uS/cm			FA
pH	11/1/21 13:42	11/1/21 13:42			6.09	SU			FA
Temperature	11/1/21 13:42	11/1/21 13:42			20.89	C			FA
Turbidity	11/1/21 13:42	11/1/21 13:42			1.45	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 11/1/21 13:45
Customer ID:
Delivery Date: 11/3/21 14:03

Description: Barry Ash Pond - MW-12V

Laboratory ID Number: BB20264

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB20271	Lead, Total	mg/L	0.0000115	0.000147	0.100	0.108	0.107	0.111	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BB20271	Barium, Total	mg/L	-0.0000164	0.000200	0.100	0.187	0.185	0.100	0.0850 to 0.115	97.6	70.0 to 130	1.08	20.0
BB20271	Cobalt, Total	mg/L	-0.0000126	0.000147	0.100	0.104	0.106	0.106	0.0850 to 0.115	103	70.0 to 130	1.90	20.0
BB20271	Iron, Total	mg/L	-9.020E-05	0.0176	0.2	74.4	73.2	0.205	0.170 to 0.230	700	70.0 to 130	1.63	20.0
BB20271	Mercury, Total by CVAA	mg/L	3.000E-05	0.000500	0.004	0.00398	0.00399	0.00397	0.00340 to 0.00460	99.5	70.0 to 130	0.251	20.0
BB20271	Antimony, Total	mg/L	0.000136	0.00100	0.100	0.0978	0.0989	0.100	0.0850 to 0.115	97.8	70.0 to 130	1.12	20.0
BB20271	Arsenic, Total	mg/L	0.0000244	0.000147	0.100	0.118	0.120	0.109	0.0850 to 0.115	102	70.0 to 130	1.68	20.0
BB20271	Boron, Total	mg/L	-0.00567	0.0650	1.00	1.12	1.11	1.03	0.850 to 1.15	105	70.0 to 130	0.897	20.0
BB20271	Chromium, Total	mg/L	0.0000405	0.000440	0.100	0.102	0.104	0.103	0.0850 to 0.115	98.5	70.0 to 130	1.94	20.0
BB20271	Cadmium, Total	mg/L	0.0000038	0.000147	0.100	0.101	0.0977	0.0990	0.0850 to 0.115	101	70.0 to 130	3.32	20.0
BB20271	Magnesium, Total	mg/L	-0.000601	0.0462	5.00	18.3	18.2	5.19	4.25 to 5.75	100	70.0 to 130	0.548	20.0
BB20264	Manganese, Dissolved	mg/L	0.0000281	0.000147	0.100	1.24	1.21	0.0981	0.0850 to 0.115	70.0	70.0 to 130	2.45	20.0
BB20271	Thallium, Total	mg/L	-0.0000108	0.000147	0.100	0.107	0.109	0.109	0.0850 to 0.115	107	70.0 to 130	1.85	20.0
BB20271	Potassium, Total	mg/L	0.00477	0.367	10.0	13.1	13.3	9.74	8.50 to 11.5	92.2	70.0 to 130	1.52	20.0
BB20271	Molybdenum, Total	mg/L	0.0000054	0.000147	0.100	0.101	0.100	0.104	0.0850 to 0.115	99.4	70.0 to 130	0.995	20.0
BB20271	Selenium, Total	mg/L	-0.0000048	0.00100	0.100	0.102	0.101	0.107	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BB20264	Iron, Dissolved	mg/L	3.430E-05	0.0176	0.2	85.7	86.1	0.206	0.170 to 0.230	50.0	70.0 to 130	0.466	20.0
BB20271	Beryllium, Total	mg/L	0.0000135	0.000880	0.100	0.0933	0.101	0.100	0.0850 to 0.115	93.3	70.0 to 130	7.93	20.0
BB20271	Lithium, Total	mg/L	0.000142	0.0154	0.200	0.219	0.216	0.195	0.170 to 0.230	110	70.0 to 130	1.38	20.0
BB20271	Manganese, Total	mg/L	-0.0000192	0.000147	0.100	0.665	0.680	0.103	0.0850 to 0.115	81.0	70.0 to 130	2.23	20.0
BB20271	Calcium, Total	mg/L	-0.0104	0.152	5.00	30.9	30.6	5.20	4.25 to 5.75	102	70.0 to 130	0.976	20.0
BB20271	Sodium, Total	mg/L	0.00239	0.0660	5.00	55.1	55.0	4.87	4.25 to 5.75	100	70.0 to 130	0.182	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: WMWBARAP

Sample Date: 11/1/21 13:45

Customer ID:

Delivery Date: 11/3/21 14:03

Description: Barry Ash Pond - MW-12V

Laboratory ID Number: BB20264

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB20267	Solids, Dissolved	mg/L	0.0000	25.0			330	52.0	40.0 to 60.0			1.83	10.0
BB20271	Chloride	mg/L	0.0148	1.00	40.0	69.4	27.4	9.98	9.00 to 11.0	111	80.0 to 120	8.76	20.0
BB20268	Alkalinity, Total as CaCO ₃	mg/L					6.72	51.2	45.0 to 55.0			2.93	10.0
BB20267	Sulfate	mg/L	-0.0591	1.00	20.0	28.2	12.5	21.1	18.0 to 22.0	81.5	80.0 to 120	4.92	20.0
BB20271	Fluoride	mg/L	0.00884	0.100	2.50	2.69	0.0962	2.59	2.25 to 2.75	104	80.0 to 120	4.87	20.0

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-12

Location Code: WMWBARAP
Collected: 11/1/21 14:30
Customer ID:
Submittal Date: 11/3/21 14:03

Laboratory ID Number: BB20265

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	11/8/21 10:29	11/9/21 13:00		1.015	0.0769	mg/L	0.030000	0.1015	J
* Calcium, Total	11/8/21 10:29	11/9/21 13:00		1.015	21.8	mg/L	0.070035	0.406	
* Iron, Total	11/8/21 10:29	11/9/21 13:57		20.3	70.8	mg/L	0.1624	0.812	
* Lithium, Total	11/8/21 10:29	11/9/21 13:00		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/8/21 10:29	11/9/21 13:00		1.015	15.8	mg/L	0.021315	0.406	
* Sodium, Total	11/8/21 10:29	11/9/21 13:57		20.3	44.5	mg/L	0.609	8.12	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	11/8/21 11:10	11/9/21 15:22		101.5	67.6	mg/L	0.8120	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	11/4/21 14:40	11/5/21 11:00		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	11/4/21 14:40	11/5/21 11:00		1.015	0.0245	mg/L	0.000068	0.000203	
* Barium, Total	11/4/21 14:40	11/5/21 11:00		1.015	0.0823	mg/L	0.000102	0.000203	
* Beryllium, Total	11/4/21 14:40	11/5/21 11:00		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/4/21 14:40	11/5/21 11:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/4/21 14:40	11/5/21 11:00		1.015	0.00423	mg/L	0.000203	0.001015	
* Cobalt, Total	11/4/21 14:40	11/5/21 11:00		1.015	0.00370	mg/L	0.000068	0.000203	
* Lead, Total	11/4/21 14:40	11/5/21 11:00		1.015	0.000292	mg/L	0.000068	0.000203	
* Molybdenum, Total	11/4/21 14:40	11/5/21 11:00		1.015	0.000985	mg/L	0.000068	0.000203	
* Potassium, Total	11/4/21 14:40	11/5/21 11:00		1.015	2.63	mg/L	0.169505	0.5075	
* Manganese, Total	11/4/21 14:40	11/5/21 11:00		1.015	0.772	mg/L	0.000068	0.000203	
* Selenium, Total	11/4/21 14:40	11/5/21 11:00		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/4/21 14:40	11/5/21 11:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	11/4/21 13:20	11/4/21 15:05		1.015	0.746	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	11/8/21 15:56	11/8/21 21:01		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	11/9/21 08:20	11/9/21 15:30		1	248	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	11/4/21 10:55	11/8/21 13:39		1	349	mg/L		25	

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

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-12

Location Code: WMWBARAP
Collected: 11/1/21 14:30
Customer ID:
Submittal Date: 11/3/21 14:03

Laboratory ID Number: BB20265

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/9/21 08:20	11/9/21 15:30		1	248	mg/L			
Carbonate Alkalinity, (calc.)	11/9/21 08:20	11/9/21 15:30		1	0.07	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	11/5/21 14:20	11/5/21 14:20		2	27.4	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/5/21 15:44	11/5/21 15:44		1	0.0928	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/9/21 09:54	11/9/21 09:54		1	27.0	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	11/1/21 14:27	11/1/21 14:27			600.77	uS/cm			FA
pH	11/1/21 14:27	11/1/21 14:27			5.75	SU			FA
Temperature	11/1/21 14:27	11/1/21 14:27			21.05	C			FA
Turbidity	11/1/21 14:27	11/1/21 14:27			4.52	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 11/1/21 14:30

Customer ID:

Delivery Date: 11/3/21 14:03

Description: Barry Ash Pond - MW-12

Laboratory ID Number: BB20265

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB20271	Lead, Total	mg/L	0.0000115	0.000147	0.100	0.108	0.107	0.111	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BB20271	Barium, Total	mg/L	-0.0000164	0.000200	0.100	0.187	0.185	0.100	0.0850 to 0.115	97.6	70.0 to 130	1.08	20.0
BB20271	Cobalt, Total	mg/L	-0.0000126	0.000147	0.100	0.104	0.106	0.106	0.0850 to 0.115	103	70.0 to 130	1.90	20.0
BB20271	Manganese, Dissolved	mg/L	0.0000281	0.000147	0.100	0.674	0.661	0.0981	0.0850 to 0.115	108	70.0 to 130	1.95	20.0
BB20271	Beryllium, Total	mg/L	0.0000135	0.000880	0.100	0.0933	0.101	0.100	0.0850 to 0.115	93.3	70.0 to 130	7.93	20.0
BB20271	Lithium, Total	mg/L	0.000142	0.0154	0.200	0.219	0.216	0.195	0.170 to 0.230	110	70.0 to 130	1.38	20.0
BB20271	Manganese, Total	mg/L	-0.0000192	0.000147	0.100	0.665	0.680	0.103	0.0850 to 0.115	81.0	70.0 to 130	2.23	20.0
BB20271	Calcium, Total	mg/L	-0.0104	0.152	5.00	30.9	30.6	5.20	4.25 to 5.75	102	70.0 to 130	0.976	20.0
BB20271	Sodium, Total	mg/L	0.00239	0.0660	5.00	55.1	55.0	4.87	4.25 to 5.75	100	70.0 to 130	0.182	20.0
BB20271	Iron, Total	mg/L	-9.020E-05	0.0176	0.2	74.4	73.2	0.205	0.170 to 0.230	700	70.0 to 130	1.63	20.0
BB20271	Mercury, Total by CVAA	mg/L	3.000E-05	0.000500	0.004	0.00398	0.00399	0.00397	0.00340 to 0.00460	99.5	70.0 to 130	0.251	20.0
BB20271	Antimony, Total	mg/L	0.000136	0.00100	0.100	0.0978	0.0989	0.100	0.0850 to 0.115	97.8	70.0 to 130	1.12	20.0
BB20271	Arsenic, Total	mg/L	0.0000244	0.000147	0.100	0.118	0.120	0.109	0.0850 to 0.115	102	70.0 to 130	1.68	20.0
BB20271	Boron, Total	mg/L	-0.00567	0.0650	1.00	1.12	1.11	1.03	0.850 to 1.15	105	70.0 to 130	0.897	20.0
BB20271	Thallium, Total	mg/L	-0.0000108	0.000147	0.100	0.107	0.109	0.109	0.0850 to 0.115	107	70.0 to 130	1.85	20.0
BB20271	Potassium, Total	mg/L	0.00477	0.367	10.0	13.1	13.3	9.74	8.50 to 11.5	92.2	70.0 to 130	1.52	20.0
BB20271	Molybdenum, Total	mg/L	0.0000054	0.000147	0.100	0.101	0.100	0.104	0.0850 to 0.115	99.4	70.0 to 130	0.995	20.0
BB20271	Selenium, Total	mg/L	-0.0000048	0.00100	0.100	0.102	0.101	0.107	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BB20271	Chromium, Total	mg/L	0.0000405	0.000440	0.100	0.102	0.104	0.103	0.0850 to 0.115	98.5	70.0 to 130	1.94	20.0
BB20271	Cadmium, Total	mg/L	0.0000038	0.000147	0.100	0.101	0.0977	0.0990	0.0850 to 0.115	101	70.0 to 130	3.32	20.0
BB20271	Magnesium, Total	mg/L	-0.000601	0.0462	5.00	18.3	18.2	5.19	4.25 to 5.75	100	70.0 to 130	0.548	20.0
BB20271	Iron, Dissolved	mg/L	3.430E-05	0.0176	0.2	71.5	72.1	0.206	0.170 to 0.230	-750	70.0 to 130	0.836	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: WMWBARAP

Sample Date: 11/1/21 14:30

Customer ID:

Delivery Date: 11/3/21 14:03

Description: Barry Ash Pond - MW-12

Laboratory ID Number: BB20265

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB20267	Sulfate	mg/L	-0.0591	1.00	20.0	28.2	12.5	21.1	18.0 to 22.0	81.5	80.0 to 120	4.92	20.0
BB20268	Alkalinity, Total as CaCO3	mg/L					6.72	51.2	45.0 to 55.0			2.93	10.0
BB20271	Fluoride	mg/L	0.00884	0.100	2.50	2.69	0.0962	2.59	2.25 to 2.75	104	80.0 to 120	4.87	20.0
BB20267	Solids, Dissolved	mg/L	0.0000	25.0			330	52.0	40.0 to 60.0			1.83	10.0
BB20271	Chloride	mg/L	0.0148	1.00	40.0	69.4	27.4	9.98	9.00 to 11.0	111	80.0 to 120	8.76	20.0

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-20V

Location Code: WMWBARAP
Collected: 11/1/21 15:20
Customer ID:
Submittal Date: 11/3/21 14:03

Laboratory ID Number: BB20266

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	11/8/21 10:29	11/9/21 13:04		1.015	0.110	mg/L	0.030000	0.1015	
* Calcium, Total	11/8/21 10:29	11/9/21 13:04		1.015	15.1	mg/L	0.070035	0.406	
* Iron, Total	11/8/21 10:29	11/9/21 14:00		20.3	76.4	mg/L	0.1624	0.812	
* Lithium, Total	11/8/21 10:29	11/9/21 13:04		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/8/21 10:29	11/9/21 13:04		1.015	9.08	mg/L	0.021315	0.406	
* Sodium, Total	11/8/21 10:29	11/9/21 14:00		20.3	46.8	mg/L	0.609	8.12	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	11/8/21 11:10	11/9/21 15:25		101.5	74.9	mg/L	0.8120	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	11/4/21 14:40	11/5/21 11:04		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	11/4/21 14:40	11/5/21 11:04		1.015	0.0182	mg/L	0.000068	0.000203	
* Barium, Total	11/4/21 14:40	11/5/21 11:04		1.015	0.0883	mg/L	0.000102	0.000203	
* Beryllium, Total	11/4/21 14:40	11/5/21 11:04		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/4/21 14:40	11/5/21 11:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/4/21 14:40	11/5/21 11:04		1.015	0.000606	mg/L	0.000203	0.001015	J
* Cobalt, Total	11/4/21 14:40	11/5/21 11:04		1.015	0.0236	mg/L	0.000068	0.000203	
* Lead, Total	11/4/21 14:40	11/5/21 11:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	11/4/21 14:40	11/5/21 11:04		1.015	0.00181	mg/L	0.000068	0.000203	
* Potassium, Total	11/4/21 14:40	11/5/21 11:04		1.015	2.23	mg/L	0.169505	0.5075	
* Manganese, Total	11/4/21 14:40	11/5/21 11:36		5.075	1.71	mg/L	0.000340	0.001015	
* Selenium, Total	11/4/21 14:40	11/5/21 11:04		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/4/21 14:40	11/5/21 11:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	11/4/21 13:20	11/5/21 11:40		5.075	1.77	mg/L	0.000340	0.001015	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	11/8/21 15:56	11/8/21 21:05		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	11/9/21 08:20	11/9/21 15:30		1	215	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	11/4/21 10:55	11/8/21 13:39		1	282	mg/L		25	

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

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-20V

Location Code: WMWBARAP
Collected: 11/1/21 15:20
Customer ID:
Submittal Date: 11/3/21 14:03

Laboratory ID Number: BB20266

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/9/21 08:20	11/9/21 15:30		1	215	mg/L			
Carbonate Alkalinity, (calc.)	11/9/21 08:20	11/9/21 15:30		1	0.10	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	11/5/21 14:21	11/5/21 14:21		2	29.6	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/5/21 15:45	11/5/21 15:45		1	0.140	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/9/21 09:56	11/9/21 09:56		1	5.66	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	11/1/21 15:15	11/1/21 15:15			562.28	uS/cm			FA
pH	11/1/21 15:15	11/1/21 15:15			6.00	SU			FA
Temperature	11/1/21 15:15	11/1/21 15:15			20.70	C			FA
Turbidity	11/1/21 15:15	11/1/21 15:15			2.45	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 11/1/21 15:20
Customer ID:
Delivery Date: 11/3/21 14:03

Description: Barry Ash Pond - MW-20V

Laboratory ID Number: BB20266

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB20271	Manganese, Dissolved	mg/L	0.0000281	0.000147	0.100	0.674	0.661	0.0981	0.0850 to 0.115	108	70.0 to 130	1.95	20.0
BB20271	Lead, Total	mg/L	0.0000115	0.000147	0.100	0.108	0.107	0.111	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BB20271	Thallium, Total	mg/L	-0.0000108	0.000147	0.100	0.107	0.109	0.109	0.0850 to 0.115	107	70.0 to 130	1.85	20.0
BB20271	Potassium, Total	mg/L	0.00477	0.367	10.0	13.1	13.3	9.74	8.50 to 11.5	92.2	70.0 to 130	1.52	20.0
BB20271	Molybdenum, Total	mg/L	0.0000054	0.000147	0.100	0.101	0.100	0.104	0.0850 to 0.115	99.4	70.0 to 130	0.995	20.0
BB20271	Selenium, Total	mg/L	-0.0000048	0.00100	0.100	0.102	0.101	0.107	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BB20271	Iron, Total	mg/L	-9.020E-05	0.0176	0.2	74.4	73.2	0.205	0.170 to 0.230	700	70.0 to 130	1.63	20.0
BB20271	Mercury, Total by CVAA	mg/L	3.000E-05	0.000500	0.004	0.00398	0.00399	0.00397	0.00340 to 0.00460	99.5	70.0 to 130	0.251	20.0
BB20271	Antimony, Total	mg/L	0.000136	0.00100	0.100	0.0978	0.0989	0.100	0.0850 to 0.115	97.8	70.0 to 130	1.12	20.0
BB20271	Arsenic, Total	mg/L	0.0000244	0.000147	0.100	0.118	0.120	0.109	0.0850 to 0.115	102	70.0 to 130	1.68	20.0
BB20271	Boron, Total	mg/L	-0.00567	0.0650	1.00	1.12	1.11	1.03	0.850 to 1.15	105	70.0 to 130	0.897	20.0
BB20271	Barium, Total	mg/L	-0.0000164	0.000200	0.100	0.187	0.185	0.100	0.0850 to 0.115	97.6	70.0 to 130	1.08	20.0
BB20271	Cobalt, Total	mg/L	-0.0000126	0.000147	0.100	0.104	0.106	0.106	0.0850 to 0.115	103	70.0 to 130	1.90	20.0
BB20271	Chromium, Total	mg/L	0.0000405	0.000440	0.100	0.102	0.104	0.103	0.0850 to 0.115	98.5	70.0 to 130	1.94	20.0
BB20271	Cadmium, Total	mg/L	0.0000038	0.000147	0.100	0.101	0.0977	0.0990	0.0850 to 0.115	101	70.0 to 130	3.32	20.0
BB20271	Magnesium, Total	mg/L	-0.000601	0.0462	5.00	18.3	18.2	5.19	4.25 to 5.75	100	70.0 to 130	0.548	20.0
BB20271	Iron, Dissolved	mg/L	3.430E-05	0.0176	0.2	71.5	72.1	0.206	0.170 to 0.230	-750	70.0 to 130	0.836	20.0
BB20271	Beryllium, Total	mg/L	0.0000135	0.000880	0.100	0.0933	0.101	0.100	0.0850 to 0.115	93.3	70.0 to 130	7.93	20.0
BB20271	Lithium, Total	mg/L	0.000142	0.0154	0.200	0.219	0.216	0.195	0.170 to 0.230	110	70.0 to 130	1.38	20.0
BB20271	Manganese, Total	mg/L	-0.0000192	0.000147	0.100	0.665	0.680	0.103	0.0850 to 0.115	81.0	70.0 to 130	2.23	20.0
BB20271	Calcium, Total	mg/L	-0.0104	0.152	5.00	30.9	30.6	5.20	4.25 to 5.75	102	70.0 to 130	0.976	20.0
BB20271	Sodium, Total	mg/L	0.00239	0.0660	5.00	55.1	55.0	4.87	4.25 to 5.75	100	70.0 to 130	0.182	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: WMWBARAP

Sample Date: 11/1/21 15:20

Customer ID:

Delivery Date: 11/3/21 14:03

Description: Barry Ash Pond - MW-20V

Laboratory ID Number: BB20266

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB20267	Sulfate	mg/L	-0.0591	1.00	20.0	28.2	12.5	21.1	18.0 to 22.0	81.5	80.0 to 120	4.92	20.0
BB20268	Alkalinity, Total as CaCO3	mg/L					6.72	51.2	45.0 to 55.0			2.93	10.0
BB20271	Fluoride	mg/L	0.00884	0.100	2.50	2.69	0.0962	2.59	2.25 to 2.75	104	80.0 to 120	4.87	20.0
BB20267	Solids, Dissolved	mg/L	0.0000	25.0			330	52.0	40.0 to 60.0			1.83	10.0
BB20271	Chloride	mg/L	0.0148	1.00	40.0	69.4	27.4	9.98	9.00 to 11.0	111	80.0 to 120	8.76	20.0

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-16

Location Code: WMWBARAP
Collected: 11/1/21 16:25
Customer ID:
Submittal Date: 11/3/21 14:03

Laboratory ID Number: BB20267

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	11/8/21 10:29	11/9/21 13:07		1.015	2.18	mg/L	0.030000	0.1015	
* Calcium, Total	11/8/21 10:29	11/9/21 13:07		1.015	13.4	mg/L	0.070035	0.406	
* Iron, Total	11/8/21 10:29	11/9/21 14:04		101.5	105	mg/L	0.8120	4.06	
* Lithium, Total	11/8/21 10:29	11/9/21 13:07		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/8/21 10:29	11/9/21 13:07		1.015	7.09	mg/L	0.021315	0.406	
* Sodium, Total	11/8/21 10:29	11/9/21 13:07		1.015	26.3	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	11/8/21 11:10	11/9/21 15:29		101.5	105	mg/L	0.8120	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	11/4/21 14:40	11/5/21 11:08		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	11/4/21 14:40	11/5/21 11:08		1.015	0.0151	mg/L	0.000068	0.000203	
* Barium, Total	11/4/21 14:40	11/5/21 11:08		1.015	0.0988	mg/L	0.000102	0.000203	
* Beryllium, Total	11/4/21 14:40	11/5/21 11:08		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/4/21 14:40	11/5/21 11:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/4/21 14:40	11/5/21 11:08		1.015	0.00180	mg/L	0.000203	0.001015	
* Cobalt, Total	11/4/21 14:40	11/5/21 11:08		1.015	0.0139	mg/L	0.000068	0.000203	
* Lead, Total	11/4/21 14:40	11/5/21 11:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	11/4/21 14:40	11/5/21 11:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	11/4/21 14:40	11/5/21 11:08		1.015	2.08	mg/L	0.169505	0.5075	
* Manganese, Total	11/4/21 14:40	11/5/21 11:08		1.015	0.776	mg/L	0.000068	0.000203	
* Selenium, Total	11/4/21 14:40	11/5/21 11:08		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/4/21 14:40	11/5/21 11:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	11/4/21 13:20	11/4/21 15:12		1.015	0.757	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	11/8/21 15:56	11/8/21 21:09		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	11/9/21 08:20	11/9/21 15:30		1	248	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	11/4/21 10:55	11/8/21 13:39		1	324	mg/L		25	

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

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-16

Location Code: WMWBARAP
Collected: 11/1/21 16:25
Customer ID:
Submittal Date: 11/3/21 14:03

Laboratory ID Number: BB20267

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/9/21 08:20	11/9/21 15:30		1	248	mg/L			
Carbonate Alkalinity, (calc.)	11/9/21 08:20	11/9/21 15:30		1	0.03	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	11/5/21 14:22	11/5/21 14:22		2	22.3	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/5/21 15:46	11/5/21 15:46		1	0.0887	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/9/21 09:57	11/9/21 09:57		1	11.9	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	11/1/21 16:21	11/1/21 16:21			549.29	uS/cm			FA
pH	11/1/21 16:21	11/1/21 16:21			5.36	SU			FA
Temperature	11/1/21 16:21	11/1/21 16:21			21.37	C			FA
Turbidity	11/1/21 16:21	11/1/21 16:21			2.21	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: WMWBARAP
Sample Date: 11/1/21 16:25
Customer ID:
Delivery Date: 11/3/21 14:03

Description: Barry Ash Pond - MW-16

Laboratory ID Number: BB20267

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB20271	Manganese, Dissolved	mg/L	0.0000281	0.000147	0.100	0.674	0.661	0.0981	0.0850 to 0.115	108	70.0 to 130	1.95	20.0
BB20271	Lead, Total	mg/L	0.0000115	0.000147	0.100	0.108	0.107	0.111	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BB20271	Barium, Total	mg/L	-0.0000164	0.000200	0.100	0.187	0.185	0.100	0.0850 to 0.115	97.6	70.0 to 130	1.08	20.0
BB20271	Cobalt, Total	mg/L	-0.0000126	0.000147	0.100	0.104	0.106	0.106	0.0850 to 0.115	103	70.0 to 130	1.90	20.0
BB20271	Thallium, Total	mg/L	-0.0000108	0.000147	0.100	0.107	0.109	0.109	0.0850 to 0.115	107	70.0 to 130	1.85	20.0
BB20271	Potassium, Total	mg/L	0.00477	0.367	10.0	13.1	13.3	9.74	8.50 to 11.5	92.2	70.0 to 130	1.52	20.0
BB20271	Molybdenum, Total	mg/L	0.0000054	0.000147	0.100	0.101	0.100	0.104	0.0850 to 0.115	99.4	70.0 to 130	0.995	20.0
BB20271	Selenium, Total	mg/L	-0.0000048	0.00100	0.100	0.102	0.101	0.107	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BB20271	Beryllium, Total	mg/L	0.0000135	0.000880	0.100	0.0933	0.101	0.100	0.0850 to 0.115	93.3	70.0 to 130	7.93	20.0
BB20271	Lithium, Total	mg/L	0.000142	0.0154	0.200	0.219	0.216	0.195	0.170 to 0.230	110	70.0 to 130	1.38	20.0
BB20271	Manganese, Total	mg/L	-0.0000192	0.000147	0.100	0.665	0.680	0.103	0.0850 to 0.115	81.0	70.0 to 130	2.23	20.0
BB20271	Calcium, Total	mg/L	-0.0104	0.152	5.00	30.9	30.6	5.20	4.25 to 5.75	102	70.0 to 130	0.976	20.0
BB20271	Sodium, Total	mg/L	0.00239	0.0660	5.00	55.1	55.0	4.87	4.25 to 5.75	100	70.0 to 130	0.182	20.0
BB20271	Chromium, Total	mg/L	0.0000405	0.000440	0.100	0.102	0.104	0.103	0.0850 to 0.115	98.5	70.0 to 130	1.94	20.0
BB20271	Cadmium, Total	mg/L	0.0000038	0.000147	0.100	0.101	0.0977	0.0990	0.0850 to 0.115	101	70.0 to 130	3.32	20.0
BB20271	Magnesium, Total	mg/L	-0.000601	0.0462	5.00	18.3	18.2	5.19	4.25 to 5.75	100	70.0 to 130	0.548	20.0
BB20271	Iron, Dissolved	mg/L	3.430E-05	0.0176	0.2	71.5	72.1	0.206	0.170 to 0.230	-750	70.0 to 130	0.836	20.0
BB20271	Iron, Total	mg/L	-9.020E-05	0.0176	0.2	74.4	73.2	0.205	0.170 to 0.230	700	70.0 to 130	1.63	20.0
BB20271	Mercury, Total by CVAA	mg/L	3.000E-05	0.000500	0.004	0.00398	0.00399	0.00397	0.00340 to 0.00460	99.5	70.0 to 130	0.251	20.0
BB20271	Antimony, Total	mg/L	0.000136	0.00100	0.100	0.0978	0.0989	0.100	0.0850 to 0.115	97.8	70.0 to 130	1.12	20.0
BB20271	Arsenic, Total	mg/L	0.0000244	0.000147	0.100	0.118	0.120	0.109	0.0850 to 0.115	102	70.0 to 130	1.68	20.0
BB20271	Boron, Total	mg/L	-0.00567	0.0650	1.00	1.12	1.11	1.03	0.850 to 1.15	105	70.0 to 130	0.897	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: WMWBARAP

Sample Date: 11/1/21 16:25

Customer ID:

Delivery Date: 11/3/21 14:03

Description: Barry Ash Pond - MW-16

Laboratory ID Number: BB20267

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB20267	Sulfate	mg/L	-0.0591	1.00	20.0	28.2	12.5	21.1	18.0 to 22.0	81.5	80.0 to 120	4.92	20.0
BB20268	Alkalinity, Total as CaCO3	mg/L					6.72	51.2	45.0 to 55.0			2.93	10.0
BB20271	Fluoride	mg/L	0.00884	0.100	2.50	2.69	0.0962	2.59	2.25 to 2.75	104	80.0 to 120	4.87	20.0
BB20267	Solids, Dissolved	mg/L	0.0000	25.0			330	52.0	40.0 to 60.0			1.83	10.0
BB20271	Chloride	mg/L	0.0148	1.00	40.0	69.4	27.4	9.98	9.00 to 11.0	111	80.0 to 120	8.76	20.0

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-25V

Location Code: WMWBARAP
Collected: 11/2/21 10:15
Customer ID:
Submittal Date: 11/3/21 14:03

Laboratory ID Number: BB20268

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	11/8/21 10:29	11/9/21 13:11		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	11/8/21 10:29	11/9/21 13:11		1.015	0.567	mg/L	0.070035	0.406		
* Iron, Total	11/8/21 10:29	11/9/21 13:11		1.015	0.0471	mg/L	0.008120	0.0406		
* Lithium, Total	11/8/21 10:29	11/9/21 13:11		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	11/8/21 10:29	11/9/21 13:11		1.015	0.324	mg/L	0.021315	0.406	J	
* Sodium, Total	11/8/21 10:29	11/9/21 13:11		1.015	4.90	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Iron, Dissolved	11/8/21 11:10	11/9/21 15:32		1.015	Not Detected	mg/L	0.008120	0.0406	U	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	11/4/21 14:40	11/5/21 11:11		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Arsenic, Total	11/4/21 14:40	11/5/21 11:11		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Barium, Total	11/4/21 14:40	11/5/21 11:11		1.015	0.00907	mg/L	0.000102	0.000203		
* Beryllium, Total	11/4/21 14:40	11/5/21 11:11		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	11/4/21 14:40	11/5/21 11:11		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	11/4/21 14:40	11/5/21 11:11		1.015	0.00130	mg/L	0.000203	0.001015		
* Cobalt, Total	11/4/21 14:40	11/5/21 11:11		1.015	0.000366	mg/L	0.000068	0.000203		
* Lead, Total	11/4/21 14:40	11/5/21 11:11		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Molybdenum, Total	11/4/21 14:40	11/5/21 11:11		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Potassium, Total	11/4/21 14:40	11/5/21 11:11		1.015	0.744	mg/L	0.169505	0.5075		
* Manganese, Total	11/4/21 14:40	11/5/21 11:11		1.015	0.00533	mg/L	0.000068	0.000203		
* Selenium, Total	11/4/21 14:40	11/5/21 11:11		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	11/4/21 14:40	11/5/21 11:11		1.015	Not Detected	mg/L	0.000068	0.000203	U	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Manganese, Dissolved	11/4/21 13:20	11/4/21 15:16		1.015	0.00496	mg/L	0.000068	0.000203		
Analytical Method: EPA 245.1		Analyst: ABB			Preparation Method: EPA 1638					
* Mercury, Total by CVAA	11/8/21 15:56	11/8/21 21:13		1	Not Detected	mg/L	0.0003	0.0005	U	
Analytical Method: SM 2320 B		Analyst: ALH			Preparation Method: EPA 1638					
Alkalinity, Total as CaCO3	11/9/21 08:20	11/9/21 15:30		1	6.92	mg/L		0.1		
Analytical Method: SM 2540C		Analyst: CNJ			Preparation Method: EPA 1638					
* Solids, Dissolved	11/4/21 10:55	11/8/21 13:39		1	36.0	mg/L		25		

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

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-25V

Location Code: WMWBARAP
Collected: 11/2/21 10:15
Customer ID:
Submittal Date: 11/3/21 14:03

Laboratory ID Number: BB20268

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/9/21 08:20	11/9/21 15:30		1	6.92	mg/L			
Carbonate Alkalinity, (calc.)	11/9/21 08:20	11/9/21 15:30		1	0.00	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	11/5/21 14:23	11/5/21 14:23		1	3.42	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/5/21 15:47	11/5/21 15:47		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/9/21 10:30	11/9/21 10:30		1	2.08	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	11/2/21 10:12	11/2/21 10:12			38.15	uS/cm			FA
pH	11/2/21 10:12	11/2/21 10:12			5.13	SU			FA
Temperature	11/2/21 10:12	11/2/21 10:12			22.18	C			FA
Turbidity	11/2/21 10:12	11/2/21 10:12			2.12	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 11/2/21 10:15
Customer ID:
Delivery Date: 11/3/21 14:03

Description: Barry Ash Pond - MW-25V

Laboratory ID Number: BB20268

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB20271	Manganese, Dissolved	mg/L	0.0000281	0.000147	0.100	0.674	0.661	0.0981	0.0850 to 0.115	108	70.0 to 130	1.95	20.0
BB20271	Iron, Total	mg/L	-9.020E-05	0.0176	0.2	74.4	73.2	0.205	0.170 to 0.230	700	70.0 to 130	1.63	20.0
BB20271	Mercury, Total by CVAA	mg/L	3.000E-05	0.000500	0.004	0.00398	0.00399	0.00397	0.00340 to 0.00460	99.5	70.0 to 130	0.251	20.0
BB20271	Antimony, Total	mg/L	0.000136	0.00100	0.100	0.0978	0.0989	0.100	0.0850 to 0.115	97.8	70.0 to 130	1.12	20.0
BB20271	Arsenic, Total	mg/L	0.0000244	0.000147	0.100	0.118	0.120	0.109	0.0850 to 0.115	102	70.0 to 130	1.68	20.0
BB20271	Boron, Total	mg/L	-0.00567	0.0650	1.00	1.12	1.11	1.03	0.850 to 1.15	105	70.0 to 130	0.897	20.0
BB20271	Barium, Total	mg/L	-0.0000164	0.000200	0.100	0.187	0.185	0.100	0.0850 to 0.115	97.6	70.0 to 130	1.08	20.0
BB20271	Cobalt, Total	mg/L	-0.0000126	0.000147	0.100	0.104	0.106	0.106	0.0850 to 0.115	103	70.0 to 130	1.90	20.0
BB20271	Lead, Total	mg/L	0.0000115	0.000147	0.100	0.108	0.107	0.111	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BB20271	Chromium, Total	mg/L	0.0000405	0.000440	0.100	0.102	0.104	0.103	0.0850 to 0.115	98.5	70.0 to 130	1.94	20.0
BB20271	Cadmium, Total	mg/L	0.0000038	0.000147	0.100	0.101	0.0977	0.0990	0.0850 to 0.115	101	70.0 to 130	3.32	20.0
BB20271	Magnesium, Total	mg/L	-0.000601	0.0462	5.00	18.3	18.2	5.19	4.25 to 5.75	100	70.0 to 130	0.548	20.0
BB20271	Iron, Dissolved	mg/L	3.430E-05	0.0176	0.2	71.5	72.1	0.206	0.170 to 0.230	-750	70.0 to 130	0.836	20.0
BB20271	Thallium, Total	mg/L	-0.0000108	0.000147	0.100	0.107	0.109	0.109	0.0850 to 0.115	107	70.0 to 130	1.85	20.0
BB20271	Potassium, Total	mg/L	0.00477	0.367	10.0	13.1	13.3	9.74	8.50 to 11.5	92.2	70.0 to 130	1.52	20.0
BB20271	Molybdenum, Total	mg/L	0.0000054	0.000147	0.100	0.101	0.100	0.104	0.0850 to 0.115	99.4	70.0 to 130	0.995	20.0
BB20271	Selenium, Total	mg/L	-0.0000048	0.00100	0.100	0.102	0.101	0.107	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BB20271	Beryllium, Total	mg/L	0.0000135	0.000880	0.100	0.0933	0.101	0.100	0.0850 to 0.115	93.3	70.0 to 130	7.93	20.0
BB20271	Lithium, Total	mg/L	0.000142	0.0154	0.200	0.219	0.216	0.195	0.170 to 0.230	110	70.0 to 130	1.38	20.0
BB20271	Manganese, Total	mg/L	-0.0000192	0.000147	0.100	0.665	0.680	0.103	0.0850 to 0.115	81.0	70.0 to 130	2.23	20.0
BB20271	Calcium, Total	mg/L	-0.0104	0.152	5.00	30.9	30.6	5.20	4.25 to 5.75	102	70.0 to 130	0.976	20.0
BB20271	Sodium, Total	mg/L	0.00239	0.0660	5.00	55.1	55.0	4.87	4.25 to 5.75	100	70.0 to 130	0.182	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: WMWBARAP

Sample Date: 11/2/21 10:15

Customer ID:

Delivery Date: 11/3/21 14:03

Description: Barry Ash Pond - MW-25V

Laboratory ID Number: BB20268

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BB20268	Alkalinity, Total as CaCO3	mg/L					6.72	51.2	45.0 to 55.0			2.93	10.0
BB20271	Sulfate	mg/L	-0.0441	1.00	160	259	137	21.1	18.0 to 22.0	78.8	80.0 to 120	2.96	20.0
BB20267	Solids, Dissolved	mg/L	0.0000	25.0			330	52.0	40.0 to 60.0			1.83	10.0
BB20271	Chloride	mg/L	0.0148	1.00	40.0	69.4	27.4	9.98	9.00 to 11.0	111	80.0 to 120	8.76	20.0
BB20271	Fluoride	mg/L	0.00884	0.100	2.50	2.69	0.0962	2.59	2.25 to 2.75	104	80.0 to 120	4.87	20.0

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-25H

Location Code: WMWBARAP
Collected: 11/2/21 11:15
Customer ID:
Submittal Date: 11/3/21 14:03

Laboratory ID Number: BB20269

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA		Preparation Method: EPA 1638					
* Boron, Total	11/8/21 10:29	11/9/21 13:14		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	11/8/21 10:29	11/9/21 13:14		1.015	1.05	mg/L	0.070035	0.406	
* Iron, Total	11/8/21 10:29	11/9/21 13:14		1.015	0.0827	mg/L	0.008120	0.0406	
* Lithium, Total	11/8/21 10:29	11/9/21 13:14		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/8/21 10:29	11/9/21 13:14		1.015	0.803	mg/L	0.021315	0.406	
* Sodium, Total	11/8/21 10:29	11/9/21 13:14		1.015	5.38	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA		Preparation Method: EPA 1638					
* Iron, Dissolved	11/8/21 11:10	11/9/21 15:35		1.015	0.0323	mg/L	0.008120	0.0406	J
Analytical Method: EPA 200.8		Analyst: DLJ		Preparation Method: EPA 1638					
* Antimony, Total	11/4/21 14:40	11/5/21 11:15		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	11/4/21 14:40	11/5/21 11:15		1.015	0.000162	mg/L	0.000068	0.000203	J
* Barium, Total	11/4/21 14:40	11/5/21 11:15		1.015	0.0203	mg/L	0.000102	0.000203	
* Beryllium, Total	11/4/21 14:40	11/5/21 11:15		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/4/21 14:40	11/5/21 11:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/4/21 14:40	11/5/21 11:15		1.015	0.000976	mg/L	0.000203	0.001015	J
* Cobalt, Total	11/4/21 14:40	11/5/21 11:15		1.015	0.00146	mg/L	0.000068	0.000203	
* Lead, Total	11/4/21 14:40	11/5/21 11:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	11/4/21 14:40	11/5/21 11:15		1.015	0.000140	mg/L	0.000068	0.000203	J
* Potassium, Total	11/4/21 14:40	11/5/21 11:15		1.015	1.03	mg/L	0.169505	0.5075	
* Manganese, Total	11/4/21 14:40	11/5/21 11:15		1.015	0.00405	mg/L	0.000068	0.000203	
* Selenium, Total	11/4/21 14:40	11/5/21 11:15		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/4/21 14:40	11/5/21 11:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ		Preparation Method: EPA 1638					
* Manganese, Dissolved	11/4/21 13:20	11/4/21 15:19		1.015	0.00401	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB		Preparation Method: EPA 1638					
* Mercury, Total by CVAA	11/8/21 15:56	11/8/21 21:17		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: ALH		Preparation Method: EPA 1638					
Alkalinity, Total as CaCO3	11/15/21 14:00	11/15/21 15:10		1	8.04	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ		Preparation Method: EPA 1638					
* Solids, Dissolved	11/8/21 11:30	11/9/21 12:34		1	34.7	mg/L		25	

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

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-25H

Location Code: WMWBARAP
Collected: 11/2/21 11:15
Customer ID:
Submittal Date: 11/3/21 14:03

Laboratory ID Number: BB20269

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/15/21 14:00	11/15/21 15:10		1	8.03	mg/L			
Carbonate Alkalinity, (calc.)	11/15/21 14:00	11/15/21 15:10		1	0.01	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	11/5/21 14:25	11/5/21 14:25		1	5.07	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/5/21 15:49	11/5/21 15:49		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/9/21 10:31	11/9/21 10:31		1	4.28	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	11/2/21 11:10	11/2/21 11:10			51.86	uS/cm			FA
pH	11/2/21 11:10	11/2/21 11:10			5.01	SU			FA
Temperature	11/2/21 11:10	11/2/21 11:10			22.59	C			FA
Turbidity	11/2/21 11:10	11/2/21 11:10			2.72	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: WMWBARAP
Sample Date: 11/2/21 11:15
Customer ID:
Delivery Date: 11/3/21 14:03

Description: Barry Ash Pond - MW-25H

Laboratory ID Number: BB20269

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB20271	Manganese, Dissolved	mg/L	0.0000281	0.000147	0.100	0.674	0.661	0.0981	0.0850 to 0.115	108	70.0 to 130	1.95	20.0
BB20271	Lead, Total	mg/L	0.0000115	0.000147	0.100	0.108	0.107	0.111	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BB20271	Iron, Total	mg/L	-9.020E-05	0.0176	0.2	74.4	73.2	0.205	0.170 to 0.230	700	70.0 to 130	1.63	20.0
BB20271	Mercury, Total by CVAA	mg/L	3.000E-05	0.000500	0.004	0.00398	0.00399	0.00397	0.00340 to 0.00460	99.5	70.0 to 130	0.251	20.0
BB20271	Antimony, Total	mg/L	0.000136	0.00100	0.100	0.0978	0.0989	0.100	0.0850 to 0.115	97.8	70.0 to 130	1.12	20.0
BB20271	Arsenic, Total	mg/L	0.0000244	0.000147	0.100	0.118	0.120	0.109	0.0850 to 0.115	102	70.0 to 130	1.68	20.0
BB20271	Boron, Total	mg/L	-0.00567	0.0650	1.00	1.12	1.11	1.03	0.850 to 1.15	105	70.0 to 130	0.897	20.0
BB20271	Barium, Total	mg/L	-0.0000164	0.000200	0.100	0.187	0.185	0.100	0.0850 to 0.115	97.6	70.0 to 130	1.08	20.0
BB20271	Cobalt, Total	mg/L	-0.0000126	0.000147	0.100	0.104	0.106	0.106	0.0850 to 0.115	103	70.0 to 130	1.90	20.0
BB20271	Chromium, Total	mg/L	0.0000405	0.000440	0.100	0.102	0.104	0.103	0.0850 to 0.115	98.5	70.0 to 130	1.94	20.0
BB20271	Cadmium, Total	mg/L	0.0000038	0.000147	0.100	0.101	0.0977	0.0990	0.0850 to 0.115	101	70.0 to 130	3.32	20.0
BB20271	Magnesium, Total	mg/L	-0.000601	0.0462	5.00	18.3	18.2	5.19	4.25 to 5.75	100	70.0 to 130	0.548	20.0
BB20271	Iron, Dissolved	mg/L	3.430E-05	0.0176	0.2	71.5	72.1	0.206	0.170 to 0.230	-750	70.0 to 130	0.836	20.0
BB20271	Beryllium, Total	mg/L	0.0000135	0.000880	0.100	0.0933	0.101	0.100	0.0850 to 0.115	93.3	70.0 to 130	7.93	20.0
BB20271	Lithium, Total	mg/L	0.000142	0.0154	0.200	0.219	0.216	0.195	0.170 to 0.230	110	70.0 to 130	1.38	20.0
BB20271	Manganese, Total	mg/L	-0.0000192	0.000147	0.100	0.665	0.680	0.103	0.0850 to 0.115	81.0	70.0 to 130	2.23	20.0
BB20271	Calcium, Total	mg/L	-0.0104	0.152	5.00	30.9	30.6	5.20	4.25 to 5.75	102	70.0 to 130	0.976	20.0
BB20271	Sodium, Total	mg/L	0.00239	0.0660	5.00	55.1	55.0	4.87	4.25 to 5.75	100	70.0 to 130	0.182	20.0
BB20271	Thallium, Total	mg/L	-0.0000108	0.000147	0.100	0.107	0.109	0.109	0.0850 to 0.115	107	70.0 to 130	1.85	20.0
BB20271	Potassium, Total	mg/L	0.00477	0.367	10.0	13.1	13.3	9.74	8.50 to 11.5	92.2	70.0 to 130	1.52	20.0
BB20271	Molybdenum, Total	mg/L	0.0000054	0.000147	0.100	0.101	0.100	0.104	0.0850 to 0.115	99.4	70.0 to 130	0.995	20.0
BB20271	Selenium, Total	mg/L	-0.0000048	0.00100	0.100	0.102	0.101	0.107	0.0850 to 0.115	102	70.0 to 130	0.985	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: WMWBARAP

Sample Date: 11/2/21 11:15

Customer ID:

Delivery Date: 11/3/21 14:03

Description: Barry Ash Pond - MW-25H

Laboratory ID Number: BB20269

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB20271	Alkalinity, Total as CaCO3	mg/L					259	45.6	45.0 to 55.0			0.387	10.0
BB20271	Chloride	mg/L	0.0148	1.00	40.0	69.4	27.4	9.98	9.00 to 11.0	111	80.0 to 120	8.76	20.0
BB20271	Fluoride	mg/L	0.00884	0.100	2.50	2.69	0.0962	2.59	2.25 to 2.75	104	80.0 to 120	4.87	20.0
BB20271	Solids, Dissolved	mg/L	1.00	25.0			409	55.0	40.0 to 60.0			4.76	10.0
BB20271	Sulfate	mg/L	-0.0441	1.00	160	259	137	21.1	18.0 to 22.0	78.8	80.0 to 120	2.96	20.0

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

Certificate Of Analysis

Description: Barry Ash Pond Equipment Blank-1

Location Code: WMWBARAPEB
Collected: 11/2/21 11:45
Customer ID:
Submittal Date: 11/3/21 14:03

Laboratory ID Number: BB20270

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	11/8/21 10:29	11/9/21 13:17		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	11/8/21 10:29	11/9/21 13:17		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	11/8/21 10:29	11/9/21 13:17		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	11/8/21 10:29	11/9/21 13:17		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/8/21 10:29	11/9/21 13:17		1.015	Not Detected	mg/L	0.021315	0.406	U
* Sodium, Total	11/8/21 10:29	11/9/21 13:17		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	11/4/21 14:40	11/5/21 11:18		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	11/4/21 14:40	11/5/21 11:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	11/4/21 14:40	11/5/21 11:18		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Beryllium, Total	11/4/21 14:40	11/5/21 11:18		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/4/21 14:40	11/5/21 11:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/4/21 14:40	11/5/21 11:18		1.015	0.000245	mg/L	0.000203	0.001015	J
* Cobalt, Total	11/4/21 14:40	11/5/21 11:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	11/4/21 14:40	11/5/21 11:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	11/4/21 14:40	11/5/21 11:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	11/4/21 14:40	11/5/21 11:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	11/4/21 14:40	11/5/21 11:18		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	11/4/21 14:40	11/5/21 11:18		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/4/21 14:40	11/5/21 11:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	11/8/21 15:56	11/8/21 21:21		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: CNJ						
* Solids, Dissolved	11/8/21 11:30	11/9/21 12:34		1	Not Detected	mg/L		25	U
Analytical Method: SM4500CI E			Analyst: JCC						
* Chloride	11/5/21 14:26	11/5/21 14:26		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	11/5/21 15:50	11/5/21 15:50		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011			Analyst: JCC						
* Sulfate	11/9/21 10:32	11/9/21 10:32		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Batch QC Summary

Customer Account: WMWBARAPEB
Sample Date: 11/2/21 11:45
Customer ID:
Delivery Date: 11/3/21 14:03

Description: Barry Ash Pond Equipment Blank-1

Laboratory ID Number: BB20270

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB20271	Lead, Total	mg/L	0.0000115	0.000147	0.100	0.108	0.107	0.111	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BB20271	Barium, Total	mg/L	-0.0000164	0.000200	0.100	0.187	0.185	0.100	0.0850 to 0.115	97.6	70.0 to 130	1.08	20.0
BB20271	Cobalt, Total	mg/L	-0.0000126	0.000147	0.100	0.104	0.106	0.106	0.0850 to 0.115	103	70.0 to 130	1.90	20.0
BB20271	Chromium, Total	mg/L	0.0000405	0.000440	0.100	0.102	0.104	0.103	0.0850 to 0.115	98.5	70.0 to 130	1.94	20.0
BB20271	Cadmium, Total	mg/L	0.0000038	0.000147	0.100	0.101	0.0977	0.0990	0.0850 to 0.115	101	70.0 to 130	3.32	20.0
BB20271	Magnesium, Total	mg/L	-0.000601	0.0462	5.00	18.3	18.2	5.19	4.25 to 5.75	100	70.0 to 130	0.548	20.0
BB20271	Iron, Total	mg/L	-9.020E-05	0.0176	0.2	74.4	73.2	0.205	0.170 to 0.230	700	70.0 to 130	1.63	20.0
BB20271	Mercury, Total by CVAA	mg/L	3.000E-05	0.000500	0.004	0.00398	0.00399	0.00397	0.00340 to 0.00460	99.5	70.0 to 130	0.251	20.0
BB20271	Antimony, Total	mg/L	0.000136	0.00100	0.100	0.0978	0.0989	0.100	0.0850 to 0.115	97.8	70.0 to 130	1.12	20.0
BB20271	Arsenic, Total	mg/L	0.0000244	0.000147	0.100	0.118	0.120	0.109	0.0850 to 0.115	102	70.0 to 130	1.68	20.0
BB20271	Boron, Total	mg/L	-0.00567	0.0650	1.00	1.12	1.11	1.03	0.850 to 1.15	105	70.0 to 130	0.897	20.0
BB20271	Thallium, Total	mg/L	-0.0000108	0.000147	0.100	0.107	0.109	0.109	0.0850 to 0.115	107	70.0 to 130	1.85	20.0
BB20271	Potassium, Total	mg/L	0.00477	0.367	10.0	13.1	13.3	9.74	8.50 to 11.5	92.2	70.0 to 130	1.52	20.0
BB20271	Molybdenum, Total	mg/L	0.0000054	0.000147	0.100	0.101	0.100	0.104	0.0850 to 0.115	99.4	70.0 to 130	0.995	20.0
BB20271	Selenium, Total	mg/L	-0.0000048	0.00100	0.100	0.102	0.101	0.107	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BB20271	Beryllium, Total	mg/L	0.0000135	0.000880	0.100	0.0933	0.101	0.100	0.0850 to 0.115	93.3	70.0 to 130	7.93	20.0
BB20271	Lithium, Total	mg/L	0.000142	0.0154	0.200	0.219	0.216	0.195	0.170 to 0.230	110	70.0 to 130	1.38	20.0
BB20271	Manganese, Total	mg/L	-0.0000192	0.000147	0.100	0.665	0.680	0.103	0.0850 to 0.115	81.0	70.0 to 130	2.23	20.0
BB20271	Calcium, Total	mg/L	-0.0104	0.152	5.00	30.9	30.6	5.20	4.25 to 5.75	102	70.0 to 130	0.976	20.0
BB20271	Sodium, Total	mg/L	0.00239	0.0660	5.00	55.1	55.0	4.87	4.25 to 5.75	100	70.0 to 130	0.182	20.0

Comments:

Batch QC Summary

Customer Account: WMWBARAPEB

Sample Date: 11/2/21 11:45

Customer ID:

Delivery Date: 11/3/21 14:03

Description: Barry Ash Pond Equipment Blank-1

Laboratory ID Number: BB20270

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB20271	Fluoride	mg/L	0.00884	0.100	2.50	2.69	0.0962	2.59	2.25 to 2.75	104	80.0 to 120	4.87	20.0
BB20271	Chloride	mg/L	0.0148	1.00	40.0	69.4	27.4	9.98	9.00 to 11.0	111	80.0 to 120	8.76	20.0
BB20271	Solids, Dissolved	mg/L	1.00	25.0			409	55.0	40.0 to 60.0			4.76	10.0
BB20271	Sulfate	mg/L	-0.0441	1.00	160	259	137	21.1	18.0 to 22.0	78.8	80.0 to 120	2.96	20.0

Comments:

Certificate Of Analysis

Description: Barry Ash Pond - MW-11

Location Code: WMWBARAP
Collected: 11/2/21 12:50
Customer ID:
Submittal Date: 11/3/21 14:03

Laboratory ID Number: BB20271

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	11/8/21 10:29	11/9/21 13:21		1.015	0.0691	mg/L	0.030000	0.1015	J
* Calcium, Total	11/8/21 10:29	11/9/21 13:21		1.015	25.8	mg/L	0.070035	0.406	
* Iron, Total	11/8/21 10:29	11/9/21 14:07		20.3	73.0	mg/L	0.1624	0.812	RA
* Lithium, Total	11/8/21 10:29	11/9/21 13:21		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/8/21 10:29	11/9/21 13:21		1.015	13.3	mg/L	0.021315	0.406	
* Sodium, Total	11/8/21 10:29	11/9/21 14:07		20.3	50.1	mg/L	0.609	8.12	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	11/8/21 11:10	11/9/21 15:39		101.5	73.0	mg/L	0.8120	4.06	RA
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	11/4/21 14:40	11/5/21 11:22		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	11/4/21 14:40	11/5/21 11:22		1.015	0.0161	mg/L	0.000068	0.000203	
* Barium, Total	11/4/21 14:40	11/5/21 11:22		1.015	0.0894	mg/L	0.000102	0.000203	
* Beryllium, Total	11/4/21 14:40	11/5/21 11:22		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/4/21 14:40	11/5/21 11:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/4/21 14:40	11/5/21 11:22		1.015	0.00348	mg/L	0.000203	0.001015	
* Cobalt, Total	11/4/21 14:40	11/5/21 11:22		1.015	0.00118	mg/L	0.000068	0.000203	
* Lead, Total	11/4/21 14:40	11/5/21 11:22		1.015	0.000126	mg/L	0.000068	0.000203	J
* Molybdenum, Total	11/4/21 14:40	11/5/21 11:22		1.015	0.00161	mg/L	0.000068	0.000203	
* Potassium, Total	11/4/21 14:40	11/5/21 11:22		1.015	3.88	mg/L	0.169505	0.5075	
* Manganese, Total	11/4/21 14:40	11/5/21 11:22		1.015	0.584	mg/L	0.000068	0.000203	
* Selenium, Total	11/4/21 14:40	11/5/21 11:22		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/4/21 14:40	11/5/21 11:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	11/4/21 13:20	11/4/21 15:23		1.015	0.566	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	11/8/21 15:56	11/8/21 21:25		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	11/15/21 14:00	11/15/21 15:10		1	258	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	11/8/21 11:30	11/9/21 12:34		1	390	mg/L		25	

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

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

Certificate Of Analysis

Description: Barry Ash Pond - MW-11

Location Code: WMWBARAP
Collected: 11/2/21 12:50
Customer ID:
Submittal Date: 11/3/21 14:03

Laboratory ID Number: BB20271

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/15/21 14:00	11/15/21 15:10		1	258	mg/L			
Carbonate Alkalinity, (calc.)	11/15/21 14:00	11/15/21 15:10		1	0.07	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	11/5/21 14:27	11/5/21 14:27		4	25.1	mg/L	2.00	4	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/5/21 15:51	11/5/21 15:51		1	0.101	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/9/21 10:33	11/9/21 10:33		8	133	mg/L	4.00	8	R
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	11/2/21 12:47	11/2/21 12:47			634.96	uS/cm			FA
pH	11/2/21 12:47	11/2/21 12:47			5.84	SU			FA
Temperature	11/2/21 12:47	11/2/21 12:47			21.15	C			FA
Turbidity	11/2/21 12:47	11/2/21 12:47			6.85	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: WMWBARAP
Sample Date: 11/2/21 12:50
Customer ID:
Delivery Date: 11/3/21 14:03

Description: Barry Ash Pond - MW-11

Laboratory ID Number: BB20271

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB20271	Manganese, Dissolved	mg/L	0.0000281	0.000147	0.100	0.674	0.661	0.0981	0.0850 to 0.115	108	70.0 to 130	1.95	20.0
BB20271	Lead, Total	mg/L	0.0000115	0.000147	0.100	0.108	0.107	0.111	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BB20271	Beryllium, Total	mg/L	0.0000135	0.000880	0.100	0.0933	0.101	0.100	0.0850 to 0.115	93.3	70.0 to 130	7.93	20.0
BB20271	Lithium, Total	mg/L	0.000142	0.0154	0.200	0.219	0.216	0.195	0.170 to 0.230	110	70.0 to 130	1.38	20.0
BB20271	Manganese, Total	mg/L	-0.0000192	0.000147	0.100	0.665	0.680	0.103	0.0850 to 0.115	81.0	70.0 to 130	2.23	20.0
BB20271	Calcium, Total	mg/L	-0.0104	0.152	5.00	30.9	30.6	5.20	4.25 to 5.75	102	70.0 to 130	0.976	20.0
BB20271	Sodium, Total	mg/L	0.00239	0.0660	5.00	55.1	55.0	4.87	4.25 to 5.75	100	70.0 to 130	0.182	20.0
BB20271	Barium, Total	mg/L	-0.0000164	0.000200	0.100	0.187	0.185	0.100	0.0850 to 0.115	97.6	70.0 to 130	1.08	20.0
BB20271	Cobalt, Total	mg/L	-0.0000126	0.000147	0.100	0.104	0.106	0.106	0.0850 to 0.115	103	70.0 to 130	1.90	20.0
BB20271	Iron, Total	mg/L	-9.020E-05	0.0176	0.2	74.4	73.2	0.205	0.170 to 0.230	700	70.0 to 130	1.63	20.0
BB20271	Mercury, Total by CVAA	mg/L	3.000E-05	0.000500	0.004	0.00398	0.00399	0.00397	0.00340 to 0.00460	99.5	70.0 to 130	0.251	20.0
BB20271	Antimony, Total	mg/L	0.000136	0.00100	0.100	0.0978	0.0989	0.100	0.0850 to 0.115	97.8	70.0 to 130	1.12	20.0
BB20271	Arsenic, Total	mg/L	0.0000244	0.000147	0.100	0.118	0.120	0.109	0.0850 to 0.115	102	70.0 to 130	1.68	20.0
BB20271	Boron, Total	mg/L	-0.00567	0.0650	1.00	1.12	1.11	1.03	0.850 to 1.15	105	70.0 to 130	0.897	20.0
BB20271	Chromium, Total	mg/L	0.0000405	0.000440	0.100	0.102	0.104	0.103	0.0850 to 0.115	98.5	70.0 to 130	1.94	20.0
BB20271	Cadmium, Total	mg/L	0.0000038	0.000147	0.100	0.101	0.0977	0.0990	0.0850 to 0.115	101	70.0 to 130	3.32	20.0
BB20271	Magnesium, Total	mg/L	-0.000601	0.0462	5.00	18.3	18.2	5.19	4.25 to 5.75	100	70.0 to 130	0.548	20.0
BB20271	Iron, Dissolved	mg/L	3.430E-05	0.0176	0.2	71.5	72.1	0.206	0.170 to 0.230	-750	70.0 to 130	0.836	20.0
BB20271	Thallium, Total	mg/L	-0.0000108	0.000147	0.100	0.107	0.109	0.109	0.0850 to 0.115	107	70.0 to 130	1.85	20.0
BB20271	Potassium, Total	mg/L	0.00477	0.367	10.0	13.1	13.3	9.74	8.50 to 11.5	92.2	70.0 to 130	1.52	20.0
BB20271	Molybdenum, Total	mg/L	0.0000054	0.000147	0.100	0.101	0.100	0.104	0.0850 to 0.115	99.4	70.0 to 130	0.995	20.0
BB20271	Selenium, Total	mg/L	-0.0000048	0.00100	0.100	0.102	0.101	0.107	0.0850 to 0.115	102	70.0 to 130	0.985	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: WMWBARAP

Sample Date: 11/2/21 12:50

Customer ID:

Delivery Date: 11/3/21 14:03

Description: Barry Ash Pond - MW-11

Laboratory ID Number: BB20271

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB20271	Chloride	mg/L	0.0148	1.00	40.0	69.4	27.4	9.98	9.00 to 11.0	111	80.0 to 120	8.76	20.0
BB20271	Alkalinity, Total as CaCO3	mg/L					259	45.6	45.0 to 55.0			0.387	10.0
BB20271	Fluoride	mg/L	0.00884	0.100	2.50	2.69	0.0962	2.59	2.25 to 2.75	104	80.0 to 120	4.87	20.0
BB20271	Solids, Dissolved	mg/L	1.00	25.0			409	55.0	40.0 to 60.0			4.76	10.0
BB20271	Sulfate	mg/L	-0.0441	1.00	160	259	137	21.1	18.0 to 22.0	78.8	80.0 to 120	2.96	20.0

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

Definitions

Project Number: WMWBARAP_1345

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.
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: TJ Daugherty		Requested By: Greg Dyer
		Location	Barry Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	Anions	250 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	TDS	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments: Upon field peer review, it was determined that sample MW-14V had been incorrectly labeled as MW-14. Waterlevel and map review were used to confirm transcription errors. Correcting BB19848 to MW-14V per TJD. LBM 11/3/21

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-17H	10/25/2021	13:43	6	Groundwater		BB19840
MW-17H Dup	10/25/2021	13:43	6	Sample Duplicate		BB19841
MW-17V	10/25/2021	14:55	6	Groundwater		BB19842
MW-8	10/26/2021	09:20	6	Groundwater		BB19843
MW-8V	10/26/2021	10:15	6	Groundwater		BB19844
MW-16V	10/26/2021	11:35	6	Groundwater		BB19845
MW-24H	10/26/2021	12:48	6	Groundwater		BB19846
MW-15	10/26/2021	13:48	6	Groundwater		BB19847
MW-14V	10/26/2021	15:00	6	Groundwater		BB19848
MW-13	10/26/2021	15:52	6	Groundwater		BB19849
FB-1	10/26/2021	16:10	4	Field Blank		BB19850

Relinquished By	Received By	Date/Time
		10/27/2021 11:05
		10/27/2021 15:15

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	4677-23342-4-1	
Sample Event	1345	
	Cooler Temp	0.1 degrees C
	Thermometer ID	5408-27568-2-2
	pH Strip ID	8440-53679-10-5

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 **10/27/2021 16:00**

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: Anthony Goggins		Requested By: Greg Dyer
		Location	Barry Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	Anions	250 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	TDS	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments: Relinquishing samples to LBM. MW-18H sample time corrected to 1438 per data file. Time added to FB-2 on COC as it was left blank. Time retrieved from field book. DFG

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-18H	10/25/2021	14:38	6	Groundwater		BB19828
MW-18H Dup	10/25/2021	14:38	6	Sample Duplicate		BB19829
FB-3	10/25/2021	15:00	4	Field Blank		BB19830
MW-19H	10/25/2021	15:55	6	Groundwater		BB19831
MW-20H	10/26/2021	09:57	6	Groundwater		BB19832
MW-22H	10/26/2021	11:02	6	Groundwater		BB19833
MW-15V	10/26/2021	11:50	6	Groundwater		BB19834
MW-15V Dup	10/26/2021	11:50	6	Sample Duplicate		BB19835
FB-2	10/26/2021	12:10	4	Field Blank		BB19836
MW-23H	10/26/2021	13:45	6	Groundwater		BB19837
MW-23V	10/26/2021	14:32	6	Groundwater		BB19838
MW-13V	10/26/2021	15:41	6	Groundwater		BB19839

Relinquished By	Received By	Date/Time
		10/27/2021 10:36
		10/27/2021 15:02

SmarTroll ID	7586-41445-5-4	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	4677-23343-4-2	
Sample Event	1345	
Cooler Temp	0.0 degrees C	
Thermometer ID	5408-27568-2-2	
pH Strip ID	8440-53679-10-5	

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer	
	Collector: Anthony Goggins		Requested By	Greg Dyer
			Location	Barry Ash Pond

1	Metals	500 mL	3	Hg	250 mL	5	Anions	250 mL	7	N/A	N/A
2	Dissolved Metals	500 mL	4	TDS	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-7	10/27/2021	09:57	6	Groundwater		BB19959
MW-7V	10/27/2021	10:42	6	Groundwater		BB19960
MW-14	10/27/2021	12:07	6	Groundwater		BB19961

Relinquished By	Received By	Date/Time
<i>Anthony Goggins</i>	<i>James Miller</i>	10/28/2021 11:04

SmarTroll ID	7586-41445-5-4	All metals and radiological bottles have pH < 2	<input checked="" type="checkbox"/>
Turbidity ID	4677-23343-4-2	Cooler Temp	0.0 degrees C
Sample Event	1345	Thermometer ID	5408-27568-2-2
		pH Strip ID	8440-53679-10-5

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody Groundwater

APC General Testing Laboratory

 Field Complete

 Outside Lab

 Lab Complete

 Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Collector	TJ Daugherty	Requested By	Greg Dyer
		Location	Barry Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	Anions	250 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	TDS	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

 Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-9	10/27/2021	09:20	6	Groundwater		BB19956
MW-10V	10/27/2021	10:30	6	Groundwater		BB19957
MW-10	10/27/2021	12:00	6	Groundwater		BB19958

Relinquished By	Received By	Date/Time
		10/28/2021 12:29

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	4677-23342-4-1	
Sample Event	1345	
Cooler Temp	0.3 degrees C	
Thermometer ID	5408-27568-2-2	
pH Strip ID	8440-53679-10-5	

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete

Outside Lab

Lab Complete

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: Dallas Gentry		Requested By: Greg Dyer
		Location	Barry Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	Anions	250 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	TDS	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-1V	11/01/2021	13:31	6	Groundwater		BB20254
MW-1	11/01/2021	14:16	6	Groundwater		BB20255
MW-1 dup	11/01/2021	14:16	6	Sample Duplicate		BB20256
FB-4	11/01/2021	14:45	4	Field Blank		BB20257
MW-2	11/01/2021	15:27	6	Groundwater		BB20258
MW-3	11/01/2021	16:32	6	Groundwater		BB20259
MW-4	11/01/2021	17:28	6	Groundwater		BB20260
MW-5V	11/02/2021	09:06	6	Groundwater		BB20261
MW-5	11/02/2021	09:46	6	Groundwater		BB20262
MW-6	11/02/2021	10:47	6	Groundwater		BB20263

Relinquished By	Received By	Date/Time
<i>Mel Dyer</i>	<i>Laura May</i>	11/03/2021 11:34

SmarTroll ID	7586-41444-5-3	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-20010-2-2	
Sample Event	1345	
Cooler Temp	0.0 degrees C	
Thermometer ID	5408-27568-2-2	
pH Strip ID	8440-53679-10-5	

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete Outside Lab
 Lab Complete

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Collector	TJ Daugherty	Requested By	Greg Dyer
		Location	Barry Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	Anions	250 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	TDS	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-12V	11/01/2021	13:45	6	Groundwater		BB20264
MW-12	11/01/2021	14:30	6	Groundwater		BB20265
MW-20V	11/01/2021	15:20	6	Groundwater		BB20266
MW-16	11/01/2021	16:25	6	Groundwater		BB20267
MW-25V	11/02/2021	10:15	6	Groundwater		BB20268
MW-25H	11/02/2021	11:15	6	Groundwater		BB20269
EB-1	11/02/2021	11:45	4	Equipment Blank		BB20270
MW-11	11/02/2021	12:50	6	Groundwater		BB20271

Relinquished By	Received By	Date/Time
		11/03/2021 12:14

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	4677-23342-4-1	Cooler Temp
Sample Event	1345	Thermometer ID
		pH Strip ID
		0.0 degrees C
		5408-27568-2-2
		8440-53679-10-5

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
		Location	Barry Ash Pond

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments: Rad MS/MSD collected at MW-8. Upon field peer review, it was determined that sample MW-14V had been incorrectly labeled as MW-14. Waterlevel and map review were used to confirm transcription errors. Correcting BB19871 to MW-14V per TJD. LBM

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-17H	10/25/2021	13:43	1	Groundwater		BB19863
MW-17H Dup	10/25/2021	13:43	1	Sample Duplicate		BB19864
MW-17V	10/25/2021	14:55	1	Groundwater		BB19865
MW-8	10/26/2021	09:20	3	Groundwater		BB19866
MW-8V	10/26/2021	10:15	1	Groundwater		BB19867
MW-16V	10/26/2021	11:35	1	Groundwater		BB19868
MW-24H	10/26/2021	12:48	1	Groundwater		BB19869
MW-15	10/26/2021	13:48	1	Groundwater		BB19870
MW-14V	10/26/2021	15:00	1	Groundwater		BB19871
MW-13	10/26/2021	15:52	1	Groundwater		BB19872
FB-1	10/26/2021	16:10	1	Field Blank		BB19873

Relinquished By	Received By	Date/Time
		10/27/2021 11:05
		10/27/2021 15:16

SmarTroll ID	7586-41443-5-2
Turbidity ID	4677-23342-4-1
Sample Event	1345

All metals and radiological bottles have pH < 2

Cooler Temp	N/A
Thermometer ID	N/A
pH Strip ID	8440-53679-10-5

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 10/27/2021 16:00

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Collector	Anthony Goggins	Requested By	Greg Dyer
		Location	Barry Ash Pond

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments: MS and MSD collected at MW-19H. Relinquishing samples to LBM. MW-18H sample time corrected to 1438 per data file. Time added to FB-2 on COC as it was left blank. Time retrieved from field book. DFG

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-18H	10/25/2021	14:38	1	Groundwater		BB19851
MW-18H Dup	10/25/2021	14:38	1	Sample Duplicate		BB19852
FB-3	10/25/2021	15:00	1	Field Blank		BB19853
MW-19H	10/25/2021	15:55	3	Groundwater		BB19854
MW-20H	10/26/2021	09:57	1	Groundwater		BB19855
MW-22H	10/26/2021	11:02	1	Groundwater		BB19856
MW-15V	10/26/2021	11:50	1	Groundwater		BB19857
MW-15V Dup	10/26/2021	11:50	1	Sample Duplicate		BB19858
FB-2	10/26/2021	12:10	1	Field Blank		BB19859
MW-23H	10/26/2021	13:45	1	Groundwater		BB19860
MW-23V	10/26/2021	14:32	1	Groundwater		BB19861
MW-13V	10/26/2021	15:41	1	Groundwater		BB19862

Relinquished By	Received By	Date/Time
		10/27/2021 10:37
		10/27/2021 15:11

SmarTroll ID	7586-41445-5-4	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	4677-23343-4-2	Cooler Temp
Sample Event	1345	Thermometer ID
		pH Strip ID
		8440-53679-10-5

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine		Results To	Dustin Brooks, Greg Dyer		
	Collector: Anthony Goggins			Requested By	Greg Dyer	
					Location: Barry Ash Pond	

Bottles

1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-7	10/27/2021	09:57	1	Groundwater		BB19965
MW-7V	10/27/2021	10:42	1	Groundwater		BB19966
MW-14	10/27/2021	12:07	1	Groundwater		BB19967

Relinquished By	Received By	Date/Time
<i>Anthony Goggins</i>	<i>Greg Dyer</i>	10/28/2021 11:05

SmarTroll ID	7586-41445-5-4	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>	
Turbidity ID	4677-23343-4-2		
Sample Event	1345		
Cooler Temp	N/A		
Thermometer ID	N/A	pH Strip ID	8440-53679-10-5

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: Barry Ash Pond	

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-9	10/27/2021	09:20	1	Groundwater		BB19962
MW-10V	10/27/2021	10:30	1	Groundwater		BB19963
MW-10	10/27/2021	12:00	1	Groundwater		BB19964

Relinquished By	Received By	Date/Time
		10/28/2021 12:29

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2	<input checked="" type="checkbox"/>
Turbidity ID	4677-23342-4-1	Cooler Temp	N/A
Sample Event	1345	Thermometer ID	N/A
		pH Strip ID	8440-53679-10-5

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: Dallas Gentry		Requested By
		Location	Barry Ash Pond

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-1V	11/01/2021	13:31	1	Groundwater		BB20272
MW-1	11/01/2021	14:16	1	Groundwater		BB20273
MW-1 dup	11/01/2021	14:16	1	Sample Duplicate		BB20274
FB-4	11/01/2021	14:45	1	Field Blank		BB20275
MW-2	11/01/2021	15:27	1	Groundwater		BB20276
MW-3	11/01/2021	16:32	1	Groundwater		BB20277
MW-4	11/01/2021	17:28	1	Groundwater		BB20278
MW-5V	11/02/2021	09:06	1	Groundwater		BB20279
MW-5	11/02/2021	09:46	1	Groundwater		BB20280
MW-6	11/02/2021	10:47	1	Groundwater		BB20281

Relinquished By	Received By	Date/Time
<i>M. Dyer</i>	<i>Greg Dyer</i>	11/03/2021 11:34

SmarTroll ID	7586-41444-5-3	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>	
Turbidity ID	3901-20010-2-2		
Sample Event	1345		
		Cooler Temp	N/A
		Thermometer ID	N/A
		pH Strip ID	8440-53679-10-5

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	Barry Ash Pond	

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-12V	11/01/2021	13:45	1	Groundwater		BB20282
MW-12	11/01/2021	14:30	1	Groundwater		BB20283
MW-20V	11/01/2021	15:20	1	Groundwater		BB20284
MW-16	11/01/2021	16:25	1	Groundwater		BB20285
MW-25V	11/02/2021	10:15	1	Groundwater		BB20286
MW-25H	11/02/2021	11:15	1	Groundwater		BB20287
EB-1	11/02/2021	11:45	1	Equipment Blank		BB20288
MW-11	11/02/2021	12:50	1	Groundwater		BB20289

Relinquished By	Received By	Date/Time
		11/03/2021 12:14

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>	
Turbidity ID	4677-23342-4-1		
Sample Event	1345		
		Cooler Temp	N/A
		Thermometer ID	N/A
		pH Strip ID	8440-53679-10-5

Bottles/Pre-Preserved Bottles are provided by the GTL

January 12, 2022

Laura Midkiff
Alabama Power
744 Highway 87
GSC #8
Calera, AL 35040

RE: Project: BARRY ASH POND WMWBARAP_1345
Pace Project No.: 92573121

Dear Laura Midkiff:

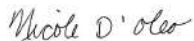
Enclosed are the analytical results for sample(s) received by the laboratory on November 09, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

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

Sincerely,



Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Brooke Caton, Alabama Power
Renee Jernigan, Alabama Power



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BARRY ASH POND WMWBARAP_1345
Pace Project No.: 92573121

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92573121001	BB19851 MW-18H	Water	10/25/21 14:38	11/09/21 10:15
92573121002	BB19852 MW-18H DUP	Water	10/25/21 14:38	11/09/21 10:15
92573121003	BB19853 FB-3	Water	10/25/21 15:00	11/09/21 10:15
92573121004	BB19854 MW-19H	Water	10/25/21 15:55	11/09/21 10:15
92573121005	BB19854 MW-19H MS	Water	10/25/21 15:55	11/09/21 10:15
92573121006	BB19854 MW-19H MSD	Water	10/25/21 15:55	11/09/21 10:15
92573121007	BB19855 MW-20H	Water	10/26/21 09:57	11/09/21 10:15
92573121008	BB19856 MW-22H	Water	10/26/21 11:02	11/09/21 10:15
92573121009	BB19857 MW-15V	Water	10/26/21 11:50	11/09/21 10:15
92573121010	BB19858 MW-15V DUP	Water	10/26/21 11:50	11/09/21 10:15
92573121011	BB19859 FB-2	Water	10/26/21 12:10	11/09/21 10:15
92573121012	BB19860 MW-23H	Water	10/26/21 13:45	11/09/21 10:15
92573121013	BB19861 MW-23V	Water	10/26/21 14:32	11/09/21 10:15
92573121014	BB19862 MW-13V	Water	10/26/21 15:41	11/09/21 10:15
92573121015	BB19863 MW-17H	Water	10/25/21 13:43	11/09/21 10:15
92573121016	BB19864 MW-17H DUP	Water	10/25/21 13:43	11/09/21 10:15
92573121017	BB19865 MW-17V	Water	10/25/21 14:55	11/09/21 10:15
92573121018	BB19866 MW-8	Water	10/26/21 09:20	11/09/21 10:15
92573121019	BB19866 MW-8 MS	Water	10/26/21 09:20	11/09/21 10:15
92573121020	BB19866 MW-8 MSD	Water	10/26/21 09:20	11/09/21 10:15
92573121021	BB19867 MW-8V	Water	10/26/21 10:15	11/09/21 10:15
92573121022	BB19868 MW-16V	Water	10/26/21 11:35	11/09/21 10:15
92573121023	BB19869 MW-24H	Water	10/26/21 12:48	11/09/21 10:15
92573121024	BB19870 MW-15	Water	10/26/21 13:48	11/09/21 10:15
92573121025	BB19871 MW-14V	Water	10/26/21 15:00	11/09/21 10:15
92573121026	BB19872 MW-13	Water	10/26/21 15:52	11/09/21 10:15
92573121027	BB19873 FB-1	Water	10/26/21 16:10	11/09/21 10:15
92573121028	BB19962 MW-9	Water	10/27/21 09:20	11/09/21 10:15
92573121029	BB19963 MW-10V	Water	10/27/21 10:30	11/09/21 10:15
92573121030	BB19964 MW-10	Water	10/27/21 12:00	11/09/21 10:15
92573121031	BB19965 MW-7	Water	10/27/21 09:57	11/09/21 10:15
92573121032	BB19966 MW-7V	Water	10/27/21 10:42	11/09/21 10:15
92573121033	BB19967 MW-14	Water	10/27/21 12:07	11/09/21 10:15
92573121034	BB20272 MW-1V	Water	11/01/21 13:31	11/09/21 10:15
92573121035	BB20273 MW-1	Water	11/01/21 14:16	11/09/21 10:15
92573121036	BB20274 MW-1 DUP	Water	11/01/21 14:16	11/09/21 10:15
92573121037	BB20275 FB-4	Water	11/01/21 14:45	11/09/21 10:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BARRY ASH POND WMWBARAP_1345
Pace Project No.: 92573121

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92573121038	BB20276 MW-2	Water	11/01/21 15:27	11/09/21 10:15
92573121039	BB20277 MW-3	Water	11/01/21 16:32	11/09/21 10:15
92573121040	BB20278 MW-4	Water	11/01/21 17:28	11/09/21 10:15
92573121041	BB20279 MW-5V	Water	11/02/21 09:06	11/09/21 10:15
92573121042	BB20280 MW-5	Water	11/02/21 09:46	11/09/21 10:15
92573121043	BB20281 MW-6	Water	11/02/21 10:47	11/09/21 10:15
92573121044	BB20282 MW-12V	Water	11/01/21 13:45	11/09/21 10:15
92573121045	BB20283 MW-12	Water	11/01/21 14:30	11/09/21 10:15
92573121046	BB20284 MW-20V	Water	11/01/21 15:20	11/09/21 10:15
92573121047	BB20285 MW-16	Water	11/01/21 16:25	11/09/21 10:15
92573121048	BB20286 MW-25V	Water	11/02/21 10:15	11/09/21 10:15
92573121049	BB20287 MW-25H	Water	11/02/21 11:15	11/09/21 10:15
92573121050	BB20288 EB-1	Water	11/02/21 11:45	11/09/21 10:15
92573121051	BB20289 MW-11	Water	11/02/21 12:50	11/09/21 10:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BARRY ASH POND WMWBARAP_1345
Pace Project No.: 92573121

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92573121001	BB19851 MW-18H	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92573121002	BB19852 MW-18H DUP	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92573121003	BB19853 FB-3	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92573121004	BB19854 MW-19H	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92573121005	BB19854 MW-19H MS	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92573121006	BB19854 MW-19H MSD	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92573121007	BB19855 MW-20H	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92573121008	BB19856 MW-22H	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92573121009	BB19857 MW-15V	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92573121010	BB19858 MW-15V DUP	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92573121011	BB19859 FB-2	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92573121012	BB19860 MW-23H	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92573121013	BB19861 MW-23V	EPA 9315	JJY	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: BARRY ASH POND WMWBARAP_1345
Pace Project No.: 92573121

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92573121014	BB19862 MW-13V	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92573121015	BB19863 MW-17H	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92573121016	BB19864 MW-17H DUP	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92573121017	BB19865 MW-17V	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92573121018	BB19866 MW-8	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92573121019	BB19866 MW-8 MS	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92573121020	BB19866 MW-8 MSD	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92573121021	BB19867 MW-8V	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92573121022	BB19868 MW-16V	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92573121023	BB19869 MW-24H	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92573121024	BB19870 MW-15	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92573121025	BB19871 MW-14V	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92573121026	BB19872 MW-13	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BARRY ASH POND WMWBARAP_1345
Pace Project No.: 92573121

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92573121027	BB19873 FB-1	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92573121028	BB19962 MW-9	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92573121029	BB19963 MW-10V	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92573121030	BB19964 MW-10	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92573121031	BB19965 MW-7	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92573121032	BB19966 MW-7V	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92573121033	BB19967 MW-14	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92573121034	BB20272 MW-1V	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92573121035	BB20273 MW-1	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92573121036	BB20274 MW-1 DUP	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92573121037	BB20275 FB-4	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92573121038	BB20276 MW-2	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92573121039	BB20277 MW-3	EPA 9315	JJY	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BARRY ASH POND WMWBARAP_1345
Pace Project No.: 92573121

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92573121040	BB20278 MW-4	EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92573121041	BB20279 MW-5V	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92573121042	BB20280 MW-5	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92573121043	BB20281 MW-6	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92573121044	BB20282 MW-12V	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92573121045	BB20283 MW-12	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92573121046	BB20284 MW-20V	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92573121047	BB20285 MW-16	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92573121048	BB20286 MW-25V	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92573121049	BB20287 MW-25H	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92573121050	BB20288 EB-1	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92573121051	BB20289 MW-11	EPA 9320	VAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: BARRY ASH POND WMWBARAP_1345
Pace Project No.: 92573121

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Method: EPA 9315

Description: 9315 Total Radium

Client: Alabama Power

Date: January 12, 2022

General Information:

51 samples were analyzed for EPA 9315 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Method: EPA 9320

Description: 9320 Radium 228

Client: Alabama Power

Date: January 12, 2022

General Information:

51 samples were analyzed for EPA 9320 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Method: Total Radium Calculation

Description: Total Radium 228+226

Client: Alabama Power

Date: January 12, 2022

General Information:

47 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: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Sample: BB19851 MW-18H **Lab ID: 92573121001** Collected: 10/25/21 14:38 Received: 11/09/21 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.352U ± 0.254 (0.435) C:101% T:NA	pCi/L	01/06/22 06:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.845 ± 0.378 (0.620) C:73% T:92%	pCi/L	12/21/21 11:24	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.20 ± 0.632 (1.06)	pCi/L	01/07/22 14:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Sample: BB19852 MW-18H DUP **Lab ID: 92573121002** Collected: 10/25/21 14:38 Received: 11/09/21 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.603U ± 0.391 (0.685) C:76% T:NA	pCi/L	01/06/22 06:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.875 ± 0.359 (0.537) C:69% T:97%	pCi/L	12/21/21 11:24	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.48 ± 0.750 (1.22)	pCi/L	01/07/22 14:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Sample: BB19853 FB-3 **Lab ID: 92573121003** Collected: 10/25/21 15:00 Received: 11/09/21 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0592U ± 0.219 (0.547) C:79% T:NA	pCi/L	01/06/22 06:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.170U ± 0.279 (0.695) C:69% T:90%	pCi/L	12/21/21 11:24	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.0592U ± 0.498 (1.24)	pCi/L	01/07/22 14:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Sample: BB19854 MW-19H **Lab ID: 92573121004** Collected: 10/25/21 15:55 Received: 11/09/21 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.185U ± 0.217 (0.438) C:84% T:NA	pCi/L	01/06/22 06:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.841 ± 0.432 (0.763) C:67% T:90%	pCi/L	12/21/21 11:24	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.03U ± 0.649 (1.20)	pCi/L	01/07/22 14:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Sample: BB19854 MW-19H MS **Lab ID: 92573121005** Collected: 10/25/21 15:55 Received: 11/09/21 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	107.29 %REC ± NA (NA) C:NA T:NA	pCi/L	01/06/22 06:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	111.28 %REC ± NA (NA) C:NA T:NA	pCi/L	12/21/21 11:26	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Sample: BB19854 MW-19H MSD **Lab ID: 92573121006** Collected: 10/25/21 15:55 Received: 11/09/21 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	91.08 %REC 16.34 RPD ± NA (NA) C:NA T:NA	pCi/L	01/06/22 07:07	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	93.81 %REC 17.03 RPD ± NA (NA) C:NA T:NA	pCi/L	12/21/21 11:26	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Sample: BB19855 MW-20H **Lab ID: 92573121007** Collected: 10/26/21 09:57 Received: 11/09/21 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.615 ± 0.359 (0.572) C:80% T:NA	pCi/L	01/06/22 07:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.664U ± 0.399 (0.742) C:66% T:93%	pCi/L	12/21/21 11:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.28U ± 0.758 (1.31)	pCi/L	01/07/22 14:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Sample: BB19856 MW-22H **Lab ID: 92573121008** Collected: 10/26/21 11:02 Received: 11/09/21 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.869 ± 0.374 (0.409) C:85% T:NA	pCi/L	01/06/22 07:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.647U ± 0.381 (0.712) C:71% T:98%	pCi/L	12/21/21 11:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.52 ± 0.755 (1.12)	pCi/L	01/07/22 14:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Sample: BB19857 MW-15V **Lab ID: 92573121009** Collected: 10/26/21 11:50 Received: 11/09/21 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	1.05 ± 0.433 (0.491) C:75% T:NA	pCi/L	01/06/22 07:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.48 ± 0.477 (0.603) C:70% T:94%	pCi/L	12/21/21 11:24	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.53 ± 0.910 (1.09)	pCi/L	01/07/22 14:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Sample: BB19858 MW-15V DUP **Lab ID: 92573121010** Collected: 10/26/21 11:50 Received: 11/09/21 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	1.75 ± 0.547 (0.459) C:83% T:NA	pCi/L	01/06/22 07:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.07 ± 0.436 (0.689) C:72% T:90%	pCi/L	12/21/21 11:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.82 ± 0.983 (1.15)	pCi/L	01/07/22 14:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Sample: BB19859 FB-2 **Lab ID: 92573121011** Collected: 10/26/21 12:10 Received: 11/09/21 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0484U ± 0.205 (0.521) C:82% T:NA	pCi/L	01/06/22 07:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.285U ± 0.325 (0.684) C:73% T:95%	pCi/L	12/21/21 11:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.333U ± 0.530 (1.21)	pCi/L	01/07/22 14:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Sample: BB19860 MW-23H **Lab ID: 92573121012** Collected: 10/26/21 13:45 Received: 11/09/21 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.501 ± 0.302 (0.456) C:85% T:NA	pCi/L	01/06/22 07:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.624U ± 0.372 (0.695) C:72% T:98%	pCi/L	12/21/21 11:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.13U ± 0.674 (1.15)	pCi/L	01/07/22 14:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Sample: BB19861 MW-23V **Lab ID: 92573121013** Collected: 10/26/21 14:32 Received: 11/09/21 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.274U ± 0.277 (0.551) C:86% T:NA	pCi/L	01/06/22 07:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.0107U ± 0.310 (0.718) C:69% T:97%	pCi/L	12/21/21 11:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.285U ± 0.587 (1.27)	pCi/L	01/07/22 14:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Sample: BB19862 MW-13V **Lab ID: 92573121014** Collected: 10/26/21 15:41 Received: 11/09/21 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.637 ± 0.373 (0.584) C:76% T:NA	pCi/L	01/06/22 07:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.959 ± 0.414 (0.677) C:72% T:93%	pCi/L	12/21/21 11:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.60 ± 0.787 (1.26)	pCi/L	01/07/22 14:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Sample: BB19863 MW-17H **Lab ID: 92573121015** Collected: 10/25/21 13:43 Received: 11/09/21 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.275U ± 0.222 (0.381) C:92% T:NA	pCi/L	01/06/22 07:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.29 ± 0.452 (0.638) C:72% T:96%	pCi/L	12/21/21 11:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.57 ± 0.674 (1.02)	pCi/L	01/07/22 14:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Sample: BB19864 MW-17H DUP **Lab ID: 92573121016** Collected: 10/25/21 13:43 Received: 11/09/21 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.290U ± 0.248 (0.455) C:94% T:NA	pCi/L	01/06/22 07:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.786 ± 0.384 (0.665) C:69% T:100%	pCi/L	12/21/21 11:24	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.08U ± 0.632 (1.12)	pCi/L	01/07/22 14:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Sample: BB19865 MW-17V **Lab ID: 92573121017** Collected: 10/25/21 14:55 Received: 11/09/21 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.113U ± 0.190 (0.425) C:88% T:NA	pCi/L	01/06/22 07:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.923 ± 0.419 (0.711) C:73% T:96%	pCi/L	12/21/21 11:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.04U ± 0.609 (1.14)	pCi/L	01/07/22 14:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Sample: BB19866 MW-8 **Lab ID: 92573121018** Collected: 10/26/21 09:20 Received: 11/09/21 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.507 ± 0.278 (0.390) C:95% T:NA	pCi/L	01/06/22 07:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.10 ± 0.527 (0.886) C:55% T:96%	pCi/L	12/28/21 12:37	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.61 ± 0.805 (1.28)	pCi/L	01/07/22 14:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Sample: BB19866 MW-8 MS **Lab ID: 92573121019** Collected: 10/26/21 09:20 Received: 11/09/21 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	109.45 %REC ± NA (NA) C:NA T:NA	pCi/L	01/06/22 07:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	94.32 %REC ± NA (NA) C:NA T:NA	pCi/L	12/28/21 12:37	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Sample: BB19866 MW-8 MSD **Lab ID: 92573121020** Collected: 10/26/21 09:20 Received: 11/09/21 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	99.60 %REC 9.43 RPD ± NA (NA) C:NA T:NA	pCi/L	01/06/22 07:15	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	83.76 %REC 11.86 RPD ± NA (NA) C:NA T:NA	pCi/L	12/28/21 12:38	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Sample: BB19867 MW-8V **Lab ID: 92573121021** Collected: 10/26/21 10:15 Received: 11/09/21 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.676 ± 0.378 (0.618) C:91% T:NA	pCi/L	01/06/22 07:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.930 ± 0.405 (0.668) C:72% T:96%	pCi/L	12/21/21 11:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.61 ± 0.783 (1.29)	pCi/L	01/07/22 14:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Sample: BB19868 MW-16V **Lab ID: 92573121022** Collected: 10/26/21 11:35 Received: 11/09/21 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.217U ± 0.239 (0.484) C:86% T:NA	pCi/L	01/06/22 07:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.556U ± 0.325 (0.593) C:76% T:93%	pCi/L	12/21/21 11:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.773U ± 0.564 (1.08)	pCi/L	01/07/22 14:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Sample: BB19869 MW-24H **Lab ID: 92573121023** Collected: 10/26/21 12:48 Received: 11/09/21 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.798 ± 0.340 (0.382) C:97% T:NA	pCi/L	01/06/22 07:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.189U ± 0.449 (0.999) C:54% T:96%	pCi/L	12/28/21 12:37	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.987U ± 0.789 (1.38)	pCi/L	01/07/22 14:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Sample: BB19870 MW-15 **Lab ID: 92573121024** Collected: 10/26/21 13:48 Received: 11/09/21 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.358U ± 0.256 (0.430) C:91% T:NA	pCi/L	01/06/22 07:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.59 ± 0.651 (1.04) C:54% T:95%	pCi/L	12/28/21 12:38	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.95 ± 0.907 (1.47)	pCi/L	01/07/22 14:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Sample: BB19871 MW-14V **Lab ID: 92573121025** Collected: 10/26/21 15:00 Received: 11/09/21 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.359U ± 0.257 (0.427) C:88% T:NA	pCi/L	01/06/22 07:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.980U ± 0.659 (1.26) C:48% T:89%	pCi/L	12/28/21 12:38	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.34U ± 0.916 (1.69)	pCi/L	01/07/22 14:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Sample: BB19872 MW-13 **Lab ID: 92573121026** Collected: 10/26/21 15:52 Received: 11/09/21 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.162U ± 0.182 (0.353) C:91% T:NA	pCi/L	01/06/22 07:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.58 ± 0.702 (1.15) C:50% T:85%	pCi/L	12/28/21 12:38	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.74 ± 0.884 (1.50)	pCi/L	01/07/22 14:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Sample: BB19873 FB-1 **Lab ID: 92573121027** Collected: 10/26/21 16:10 Received: 11/09/21 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0625U ± 0.185 (0.453) C:89% T:NA	pCi/L	01/06/22 07:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.883U ± 0.574 (1.08) C:52% T:89%	pCi/L	12/28/21 12:38	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.946U ± 0.759 (1.53)	pCi/L	01/07/22 14:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Sample: BB19962 MW-9 **Lab ID: 92573121028** Collected: 10/27/21 09:20 Received: 11/09/21 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.611 ± 0.332 (0.506) C:88% T:NA	pCi/L	01/06/22 12:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.455U ± 0.469 (0.969) C:55% T:90%	pCi/L	12/28/21 12:38	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.07U ± 0.801 (1.48)	pCi/L	01/07/22 14:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Sample: BB19963 MW-10V **Lab ID: 92573121029** Collected: 10/27/21 10:30 Received: 11/09/21 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.666 ± 0.312 (0.387) C:95% T:NA	pCi/L	01/06/22 12:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.774U ± 0.576 (1.12) C:50% T:88%	pCi/L	12/28/21 12:38	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.44U ± 0.888 (1.51)	pCi/L	01/07/22 14:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Sample: BB19964 MW-10 **Lab ID: 92573121030** Collected: 10/27/21 12:00 Received: 11/09/21 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.218U ± 0.230 (0.455) C:93% T:NA	pCi/L	01/06/22 12:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.982U ± 0.608 (1.14) C:51% T:90%	pCi/L	12/28/21 12:38	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.20U ± 0.838 (1.60)	pCi/L	01/07/22 14:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Sample: BB19965 MW-7 **Lab ID: 92573121031** Collected: 10/27/21 09:57 Received: 11/09/21 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.130U ± 0.171 (0.353) C:93% T:NA	pCi/L	01/06/22 12:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.33 ± 0.676 (1.18) C:48% T:89%	pCi/L	12/28/21 12:38	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.46U ± 0.847 (1.53)	pCi/L	01/07/22 14:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Sample: BB19966 MW-7V **Lab ID: 92573121032** Collected: 10/27/21 10:42 Received: 11/09/21 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.405 ± 0.254 (0.361) C:89% T:NA	pCi/L	01/06/22 08:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.509U ± 0.482 (0.980) C:51% T:88%	pCi/L	12/28/21 12:39	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.914U ± 0.736 (1.34)	pCi/L	01/07/22 14:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Sample: BB19967 MW-14 **Lab ID: 92573121033** Collected: 10/27/21 12:07 Received: 11/09/21 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.223U ± 0.228 (0.450) C:93% T:NA	pCi/L	01/06/22 08:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.364U ± 0.498 (1.06) C:48% T:89%	pCi/L	12/28/21 12:39	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.587U ± 0.726 (1.51)	pCi/L	01/07/22 14:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Sample: BB20272 MW-1V **Lab ID: 92573121034** Collected: 11/01/21 13:31 Received: 11/09/21 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.310U ± 0.288 (0.574) C:93% T:NA	pCi/L	01/06/22 08:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.990U ± 0.564 (1.01) C:50% T:88%	pCi/L	12/28/21 12:39	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.30U ± 0.852 (1.58)	pCi/L	01/07/22 14:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Sample: BB20273 MW-1 **Lab ID: 92573121035** Collected: 11/01/21 14:16 Received: 11/09/21 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.910 ± 0.408 (0.531) C:81% T:NA	pCi/L	01/06/22 08:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.31 ± 0.623 (1.05) C:53% T:88%	pCi/L	12/28/21 12:39	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.22 ± 1.03 (1.58)	pCi/L	01/07/22 14:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Sample: BB20274 MW-1 DUP **Lab ID: 92573121036** Collected: 11/01/21 14:16 Received: 11/09/21 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	1.13 ± 0.411 (0.399) C:93% T:NA	pCi/L	01/06/22 08:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.57 ± 0.657 (1.05) C:53% T:91%	pCi/L	12/28/21 12:39	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.70 ± 1.07 (1.45)	pCi/L	01/07/22 14:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BB20275 FB-4 Lab ID: 92573121037 Collected: 11/01/21 14:45 Received: 11/09/21 10:15 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.0266U ± 0.157 (0.456) C:96% T:NA	pCi/L	01/06/22 08:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.0276U ± 0.432 (1.02) C:50% T:90%	pCi/L	12/28/21 12:39	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.000U ± 0.589 (1.48)	pCi/L	01/07/22 14:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Sample: BB20276 MW-2 **Lab ID: 92573121038** Collected: 11/01/21 15:27 Received: 11/09/21 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.108U ± 0.215 (0.497) C:94% T:NA	pCi/L	01/06/22 08:47	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.415U ± 0.556 (1.19) C:46% T:92%	pCi/L	12/28/21 12:39	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.523U ± 0.771 (1.69)	pCi/L	01/07/22 14:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Sample: BB20277 MW-3 **Lab ID: 92573121039** Collected: 11/01/21 16:32 Received: 11/09/21 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.361U ± 0.287 (0.527) C:89% T:NA	pCi/L	01/06/22 08:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.327U ± 0.478 (1.03) C:51% T:93%	pCi/L	12/28/21 12:39	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.688U ± 0.765 (1.56)	pCi/L	01/07/22 14:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Sample: BB20278 MW-4 **Lab ID: 92573121040** Collected: 11/01/21 17:28 Received: 11/09/21 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.497 ± 0.273 (0.364) C:90% T:NA	pCi/L	01/06/22 08:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.391U ± 0.403 (0.839) C:67% T:94%	pCi/L	12/27/21 11:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.888U ± 0.676 (1.20)	pCi/L	01/07/22 14:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Sample: BB20279 MW-5V **Lab ID: 92573121041** Collected: 11/02/21 09:06 Received: 11/09/21 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.158U ± 0.258 (0.574) C:92% T:NA	pCi/L	01/10/22 09:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.0138U ± 0.333 (0.776) C:68% T:96%	pCi/L	12/27/21 11:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.158U ± 0.591 (1.35)	pCi/L	01/10/22 16:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Sample: BB20280 MW-5 **Lab ID: 92573121042** Collected: 11/02/21 09:46 Received: 11/09/21 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.592 ± 0.300 (0.391) C:94% T:NA	pCi/L	01/10/22 09:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.47 ± 0.522 (0.757) C:63% T:102%	pCi/L	12/27/21 11:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.06 ± 0.822 (1.15)	pCi/L	01/10/22 16:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Sample: BB20281 MW-6 **Lab ID: 92573121043** Collected: 11/02/21 10:47 Received: 11/09/21 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.00492U ± 0.126 (0.365) C:98% T:NA	pCi/L	01/10/22 09:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.773U ± 0.476 (0.907) C:65% T:97%	pCi/L	12/27/21 11:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.773U ± 0.602 (1.27)	pCi/L	01/10/22 16:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Sample: BB20282 MW-12V **Lab ID: 92573121044** Collected: 11/01/21 13:45 Received: 11/09/21 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.714 ± 0.328 (0.381) C:90% T:NA	pCi/L	01/10/22 09:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.0997U ± 0.375 (0.846) C:61% T:100%	pCi/L	12/27/21 11:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.814U ± 0.703 (1.23)	pCi/L	01/10/22 16:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Sample: BB20283 MW-12 **Lab ID: 92573121045** Collected: 11/01/21 14:30 Received: 11/09/21 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.263U ± 0.226 (0.401) C:87% T:NA	pCi/L	01/10/22 09:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.53 ± 0.533 (0.752) C:63% T:100%	pCi/L	12/27/21 11:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.79 ± 0.759 (1.15)	pCi/L	01/10/22 16:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Sample: BB20284 MW-20V **Lab ID: 92573121046** Collected: 11/01/21 15:20 Received: 11/09/21 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.396U ± 0.299 (0.547) C:90% T:NA	pCi/L	01/10/22 09:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.08 ± 0.465 (0.760) C:64% T:100%	pCi/L	12/27/21 11:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.48 ± 0.764 (1.31)	pCi/L	01/10/22 16:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Sample: BB20285 MW-16 **Lab ID: 92573121047** Collected: 11/01/21 16:25 Received: 11/09/21 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.307U ± 0.244 (0.420) C:88% T:NA	pCi/L	01/10/22 09:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.972 ± 0.481 (0.843) C:64% T:97%	pCi/L	12/27/21 11:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.28 ± 0.725 (1.26)	pCi/L	01/10/22 16:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Sample: BB20286 MW-25V **Lab ID: 92573121048** Collected: 11/02/21 10:15 Received: 11/09/21 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0920U ± 0.159 (0.357) C:94% T:NA	pCi/L	01/10/22 09:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.960 ± 0.448 (0.769) C:66% T:98%	pCi/L	12/27/21 11:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.05U ± 0.607 (1.13)	pCi/L	01/10/22 16:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Sample: BB20287 MW-25H **Lab ID: 92573121049** Collected: 11/02/21 11:15 Received: 11/09/21 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0473U ± 0.151 (0.376) C:97% T:NA	pCi/L	01/10/22 09:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.660U ± 0.411 (0.773) C:60% T:101%	pCi/L	12/27/21 11:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.707U ± 0.562 (1.15)	pCi/L	01/10/22 16:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BB20288 EB-1 Lab ID: 92573121050 Collected: 11/02/21 11:45 Received: 11/09/21 10:15 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.0314U ± 0.164 (0.460) C:99% T:NA	pCi/L	01/10/22 09:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.0283U ± 0.388 (0.890) C:65% T:97%	pCi/L	12/27/21 11:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.0283U ± 0.552 (1.35)	pCi/L	01/10/22 16:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Sample: BB20289 MW-11 **Lab ID: 92573121051** Collected: 11/02/21 12:50 Received: 11/09/21 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.299U ± 0.257 (0.486) C:96% T:NA	pCi/L	01/10/22 09:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.205U ± 0.394 (0.865) C:62% T:93%	pCi/L	12/27/21 11:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.504U ± 0.651 (1.35)	pCi/L	01/10/22 16:31	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

QC Batch: 475651

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92573121018, 92573121019, 92573121020, 92573121023, 92573121024, 92573121025, 92573121026, 92573121027, 92573121028, 92573121029, 92573121030, 92573121031, 92573121032, 92573121033, 92573121034, 92573121035, 92573121036, 92573121037, 92573121038, 92573121039

METHOD BLANK: 2297614

Matrix: Water

Associated Lab Samples: 92573121018, 92573121019, 92573121020, 92573121023, 92573121024, 92573121025, 92573121026, 92573121027, 92573121028, 92573121029, 92573121030, 92573121031, 92573121032, 92573121033, 92573121034, 92573121035, 92573121036, 92573121037, 92573121038, 92573121039

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.410 ± 0.384 (0.742) C:54% T:86%	pCi/L	12/28/21 12:37	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345
Pace Project No.: 92573121

QC Batch:	474377	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92573121001, 92573121002, 92573121003, 92573121004, 92573121005, 92573121006, 92573121007, 92573121008, 92573121009, 92573121010, 92573121011, 92573121012, 92573121013, 92573121014, 92573121015, 92573121016, 92573121017, 92573121021, 92573121022, 92573121023

METHOD BLANK: 2291660 Matrix: Water

Associated Lab Samples: 92573121001, 92573121002, 92573121003, 92573121004, 92573121005, 92573121006, 92573121007, 92573121008, 92573121009, 92573121010, 92573121011, 92573121012, 92573121013, 92573121014, 92573121015, 92573121016, 92573121017, 92573121021, 92573121022, 92573121023

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.272 ± 0.210 (0.341) C:96% T:NA	pCi/L	01/06/22 06:48	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

QC Batch: 475652 Analysis Method: EPA 9320

QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92573121040, 92573121041, 92573121042, 92573121043, 92573121044, 92573121045, 92573121046, 92573121047, 92573121048, 92573121049, 92573121050, 92573121051

METHOD BLANK: 2297615 Matrix: Water

Associated Lab Samples: 92573121040, 92573121041, 92573121042, 92573121043, 92573121044, 92573121045, 92573121046, 92573121047, 92573121048, 92573121049, 92573121050, 92573121051

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.691 ± 0.401 (0.728) C:60% T:98%	pCi/L	12/27/21 11:21	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

QC Batch: 474378

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92573121018, 92573121019, 92573121020, 92573121024, 92573121025, 92573121026, 92573121027, 92573121028, 92573121029, 92573121030, 92573121031, 92573121032, 92573121033, 92573121034, 92573121035, 92573121036, 92573121037, 92573121038, 92573121039, 92573121040

METHOD BLANK: 2291661

Matrix: Water

Associated Lab Samples: 92573121018, 92573121019, 92573121020, 92573121024, 92573121025, 92573121026, 92573121027, 92573121028, 92573121029, 92573121030, 92573121031, 92573121032, 92573121033, 92573121034, 92573121035, 92573121036, 92573121037, 92573121038, 92573121039, 92573121040

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.404 ± 0.254 (0.379) C:87% T:NA	pCi/L	01/06/22 07:15	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

QC Batch: 475650

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92573121001, 92573121002, 92573121003, 92573121004, 92573121005, 92573121006, 92573121007, 92573121008, 92573121009, 92573121010, 92573121011, 92573121012, 92573121013, 92573121014, 92573121015, 92573121016, 92573121017, 92573121021, 92573121022

METHOD BLANK: 2297613

Matrix: Water

Associated Lab Samples: 92573121001, 92573121002, 92573121003, 92573121004, 92573121005, 92573121006, 92573121007, 92573121008, 92573121009, 92573121010, 92573121011, 92573121012, 92573121013, 92573121014, 92573121015, 92573121016, 92573121017, 92573121021, 92573121022

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.529 ± 0.291 (0.510) C:72% T:99%	pCi/L	12/21/21 11:28	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BARRY ASH POND WMWBARAP_1345
Pace Project No.: 92573121

QC Batch:	474379	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92573121041, 92573121042, 92573121043, 92573121044, 92573121045, 92573121046, 92573121047, 92573121048, 92573121049, 92573121050, 92573121051

METHOD BLANK:	2291663	Matrix:	Water
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Associated Lab Samples: 92573121041, 92573121042, 92573121043, 92573121044, 92573121045, 92573121046, 92573121047, 92573121048, 92573121049, 92573121050, 92573121051

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.105 ± 0.108 (0.425) C:88% T:NA	pCi/L	01/10/22 09:38	

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QUALIFIERS

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BARRY ASH POND WMWBARAP_1345
Pace Project No.: 92573121

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92573121001	BB19851 MW-18H	EPA 9315	474377		
92573121002	BB19852 MW-18H DUP	EPA 9315	474377		
92573121003	BB19853 FB-3	EPA 9315	474377		
92573121004	BB19854 MW-19H	EPA 9315	474377		
92573121005	BB19854 MW-19H MS	EPA 9315	474377		
92573121006	BB19854 MW-19H MSD	EPA 9315	474377		
92573121007	BB19855 MW-20H	EPA 9315	474377		
92573121008	BB19856 MW-22H	EPA 9315	474377		
92573121009	BB19857 MW-15V	EPA 9315	474377		
92573121010	BB19858 MW-15V DUP	EPA 9315	474377		
92573121011	BB19859 FB-2	EPA 9315	474377		
92573121012	BB19860 MW-23H	EPA 9315	474377		
92573121013	BB19861 MW-23V	EPA 9315	474377		
92573121014	BB19862 MW-13V	EPA 9315	474377		
92573121015	BB19863 MW-17H	EPA 9315	474377		
92573121016	BB19864 MW-17H DUP	EPA 9315	474377		
92573121017	BB19865 MW-17V	EPA 9315	474377		
92573121018	BB19866 MW-8	EPA 9315	474378		
92573121019	BB19866 MW-8 MS	EPA 9315	474378		
92573121020	BB19866 MW-8 MSD	EPA 9315	474378		
92573121021	BB19867 MW-8V	EPA 9315	474377		
92573121022	BB19868 MW-16V	EPA 9315	474377		
92573121023	BB19869 MW-24H	EPA 9315	474377		
92573121024	BB19870 MW-15	EPA 9315	474378		
92573121025	BB19871 MW-14V	EPA 9315	474378		
92573121026	BB19872 MW-13	EPA 9315	474378		
92573121027	BB19873 FB-1	EPA 9315	474378		
92573121028	BB19962 MW-9	EPA 9315	474378		
92573121029	BB19963 MW-10V	EPA 9315	474378		
92573121030	BB19964 MW-10	EPA 9315	474378		
92573121031	BB19965 MW-7	EPA 9315	474378		
92573121032	BB19966 MW-7V	EPA 9315	474378		
92573121033	BB19967 MW-14	EPA 9315	474378		
92573121034	BB20272 MW-1V	EPA 9315	474378		
92573121035	BB20273 MW-1	EPA 9315	474378		
92573121036	BB20274 MW-1 DUP	EPA 9315	474378		
92573121037	BB20275 FB-4	EPA 9315	474378		
92573121038	BB20276 MW-2	EPA 9315	474378		
92573121039	BB20277 MW-3	EPA 9315	474378		
92573121040	BB20278 MW-4	EPA 9315	474378		
92573121041	BB20279 MW-5V	EPA 9315	474379		
92573121042	BB20280 MW-5	EPA 9315	474379		
92573121043	BB20281 MW-6	EPA 9315	474379		
92573121044	BB20282 MW-12V	EPA 9315	474379		
92573121045	BB20283 MW-12	EPA 9315	474379		
92573121046	BB20284 MW-20V	EPA 9315	474379		
92573121047	BB20285 MW-16	EPA 9315	474379		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92573121048	BB20286 MW-25V	EPA 9315	474379		
92573121049	BB20287 MW-25H	EPA 9315	474379		
92573121050	BB20288 EB-1	EPA 9315	474379		
92573121051	BB20289 MW-11	EPA 9315	474379		
92573121001	BB19851 MW-18H	EPA 9320	475650		
92573121002	BB19852 MW-18H DUP	EPA 9320	475650		
92573121003	BB19853 FB-3	EPA 9320	475650		
92573121004	BB19854 MW-19H	EPA 9320	475650		
92573121005	BB19854 MW-19H MS	EPA 9320	475650		
92573121006	BB19854 MW-19H MSD	EPA 9320	475650		
92573121007	BB19855 MW-20H	EPA 9320	475650		
92573121008	BB19856 MW-22H	EPA 9320	475650		
92573121009	BB19857 MW-15V	EPA 9320	475650		
92573121010	BB19858 MW-15V DUP	EPA 9320	475650		
92573121011	BB19859 FB-2	EPA 9320	475650		
92573121012	BB19860 MW-23H	EPA 9320	475650		
92573121013	BB19861 MW-23V	EPA 9320	475650		
92573121014	BB19862 MW-13V	EPA 9320	475650		
92573121015	BB19863 MW-17H	EPA 9320	475650		
92573121016	BB19864 MW-17H DUP	EPA 9320	475650		
92573121017	BB19865 MW-17V	EPA 9320	475650		
92573121018	BB19866 MW-8	EPA 9320	475651		
92573121019	BB19866 MW-8 MS	EPA 9320	475651		
92573121020	BB19866 MW-8 MSD	EPA 9320	475651		
92573121021	BB19867 MW-8V	EPA 9320	475650		
92573121022	BB19868 MW-16V	EPA 9320	475650		
92573121023	BB19869 MW-24H	EPA 9320	475651		
92573121024	BB19870 MW-15	EPA 9320	475651		
92573121025	BB19871 MW-14V	EPA 9320	475651		
92573121026	BB19872 MW-13	EPA 9320	475651		
92573121027	BB19873 FB-1	EPA 9320	475651		
92573121028	BB19962 MW-9	EPA 9320	475651		
92573121029	BB19963 MW-10V	EPA 9320	475651		
92573121030	BB19964 MW-10	EPA 9320	475651		
92573121031	BB19965 MW-7	EPA 9320	475651		
92573121032	BB19966 MW-7V	EPA 9320	475651		
92573121033	BB19967 MW-14	EPA 9320	475651		
92573121034	BB20272 MW-1V	EPA 9320	475651		
92573121035	BB20273 MW-1	EPA 9320	475651		
92573121036	BB20274 MW-1 DUP	EPA 9320	475651		
92573121037	BB20275 FB-4	EPA 9320	475651		
92573121038	BB20276 MW-2	EPA 9320	475651		
92573121039	BB20277 MW-3	EPA 9320	475651		
92573121040	BB20278 MW-4	EPA 9320	475652		
92573121041	BB20279 MW-5V	EPA 9320	475652		
92573121042	BB20280 MW-5	EPA 9320	475652		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BARRY ASH POND WMWBARAP_1345

Pace Project No.: 92573121

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92573121043	BB20281 MW-6	EPA 9320	475652		
92573121044	BB20282 MW-12V	EPA 9320	475652		
92573121045	BB20283 MW-12	EPA 9320	475652		
92573121046	BB20284 MW-20V	EPA 9320	475652		
92573121047	BB20285 MW-16	EPA 9320	475652		
92573121048	BB20286 MW-25V	EPA 9320	475652		
92573121049	BB20287 MW-25H	EPA 9320	475652		
92573121050	BB20288 EB-1	EPA 9320	475652		
92573121051	BB20289 MW-11	EPA 9320	475652		
92573121001	BB19851 MW-18H	Total Radium Calculation	478859		
92573121002	BB19852 MW-18H DUP	Total Radium Calculation	478859		
92573121003	BB19853 FB-3	Total Radium Calculation	478859		
92573121004	BB19854 MW-19H	Total Radium Calculation	478859		
92573121007	BB19855 MW-20H	Total Radium Calculation	478859		
92573121008	BB19856 MW-22H	Total Radium Calculation	478859		
92573121009	BB19857 MW-15V	Total Radium Calculation	478859		
92573121010	BB19858 MW-15V DUP	Total Radium Calculation	478859		
92573121011	BB19859 FB-2	Total Radium Calculation	478859		
92573121012	BB19860 MW-23H	Total Radium Calculation	478859		
92573121013	BB19861 MW-23V	Total Radium Calculation	478859		
92573121014	BB19862 MW-13V	Total Radium Calculation	478859		
92573121015	BB19863 MW-17H	Total Radium Calculation	478859		
92573121016	BB19864 MW-17H DUP	Total Radium Calculation	478859		
92573121017	BB19865 MW-17V	Total Radium Calculation	478859		
92573121018	BB19866 MW-8	Total Radium Calculation	478858		
92573121021	BB19867 MW-8V	Total Radium Calculation	478859		
92573121022	BB19868 MW-16V	Total Radium Calculation	478859		
92573121023	BB19869 MW-24H	Total Radium Calculation	478859		
92573121024	BB19870 MW-15	Total Radium Calculation	478858		
92573121025	BB19871 MW-14V	Total Radium Calculation	478858		
92573121026	BB19872 MW-13	Total Radium Calculation	478858		
92573121027	BB19873 FB-1	Total Radium Calculation	478858		
92573121028	BB19962 MW-9	Total Radium Calculation	478858		
92573121029	BB19963 MW-10V	Total Radium Calculation	478858		
92573121030	BB19964 MW-10	Total Radium Calculation	478858		
92573121031	BB19965 MW-7	Total Radium Calculation	478858		
92573121032	BB19966 MW-7V	Total Radium Calculation	478858		
92573121033	BB19967 MW-14	Total Radium Calculation	478858		
92573121034	BB20272 MW-1V	Total Radium Calculation	478858		
92573121035	BB20273 MW-1	Total Radium Calculation	478858		
92573121036	BB20274 MW-1 DUP	Total Radium Calculation	478858		
92573121037	BB20275 FB-4	Total Radium Calculation	478858		
92573121038	BB20276 MW-2	Total Radium Calculation	478858		
92573121039	BB20277 MW-3	Total Radium Calculation	478858		
92573121040	BB20278 MW-4	Total Radium Calculation	478858		
92573121041	BB20279 MW-5V	Total Radium Calculation	479016		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BARRY ASH POND WMWBARAP_1345
Pace Project No.: 92573121

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92573121042	BB20280 MW-5	Total Radium Calculation	479016		
92573121043	BB20281 MW-6	Total Radium Calculation	479016		
92573121044	BB20282 MW-12V	Total Radium Calculation	479016		
92573121045	BB20283 MW-12	Total Radium Calculation	479016		
92573121046	BB20284 MW-20V	Total Radium Calculation	479016		
92573121047	BB20285 MW-16	Total Radium Calculation	479016		
92573121048	BB20286 MW-25V	Total Radium Calculation	479016		
92573121049	BB20287 MW-25H	Total Radium Calculation	479016		
92573121050	BB20288 EB-1	Total Radium Calculation	479016		
92573121051	BB20289 MW-11	Total Radium Calculation	479016		

REPORT OF LABORATORY ANALYSIS

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92573121

Pittsburgh Lab Sample Condition Upon Receipt



Client Name: Pace NC

Project

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 5320 6279 5853

Label	<u>AD</u>
LIMS Login	<u>VA</u>

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used _____ Type of Ice: Wet Blue None

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

Temp should be above freezing to 6°C

Comments:	Yes	No	N/A	pH paper Lot#	Date and initials of person examining contents:	
				<u>1003801</u>	<u>11/30/21</u>	
Chain of Custody Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.		
Chain of Custody Filled Out:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.		
Chain of Custody Relinquished:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3.		
Sampler Name & Signature on COC:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4.		
Sample Labels match COC:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.		
-Includes date/time/ID Matrix: <u>WT</u>						
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6.		
Short Hold Time Analysis (<72hr remaining):	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7.		
Rush Turn Around Time Requested:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8.		
Sufficient Volume:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.		
Correct Containers Used:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10.		
-Pace Containers Used:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Containers Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11.		
Orthophosphate field filtered	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12.		
Hex Cr Aqueous sample field filtered	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13.		
Organic Samples checked for dechlorination:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14.		
Filtered volume received for Dissolved tests	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15.		
All containers have been checked for preservation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16.		
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix						
All containers meet method preservation requirements.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed: <u>AD</u>	Date/time of preservation	
				Lot # of added preservative		
Headspace in VOA Vials (>6mm):	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	17.		
Trip Blank Present:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	18.		
Trip Blank Custody Seals Present	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
Rad Samples Screened < 0.5 mrem/hr	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed: <u>AD</u>	Date: <u>11/30/21</u>	Survey Meter SN: <u>1503</u>

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

PH: AES Due Date: 12/10/21
CLIENT: PACE_92_HUNC

W0#: 30452168

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Section B

Section C

Required Client Information:
 Company: Alabama Power Company
 Address: 744 Highway 87 GSC Bldg #8
 Calera, AL 35040
 Email To: ldmidkiff@southemco.com
 Phone: 205-664-6197 Fax
 Requested Due Date: 28 days

Required Project Information:
 Report To: Laura Midkiff
 Copy To: Brooke Carlton & Renee Jernigan
 Purchase Order #: APC10700668
 Project Name: Plant Barry Ash Pond
 Project Number: VMMWBARAP 1345

Invoice Information:
 Attention: Laura Midkiff
 Company Name: Alabama Power Co.
 Address: 744 Highway 87 GSC Bldg #8
 Pace Quote: CCR
 Pace Project Manager: Kevin Herring@cpacalabs.com
 Pace Profile #: 13805

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample Ids must be unique	MATRIX CODE (see vaxd codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyses Test				Residual Chlorine (Y/N)			
				START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	EPA 9315	EPA 9320	Total Radium Sum		Matrix Spike/Matrix Spike D		
1	BB19851	MMW-18H	GM/G	10/29/2021	14:38		1															
2	BB19852	MMW-18H DUP	GM/G	10/29/2021	14:38		1															
3	BB19853	FB-3	GM/G	10/29/2021	15:00		1															
4	BB19854	MMW-19H	GM/G	10/29/2021	15:55		3															
5	BB19855	MMW-20H	GM/G	10/29/2021	8:57		1															
6	BB19856	MMW-22H	GM/G	10/29/2021	11:02		1															
7	BB19857	MMW-15V	GM/G	10/29/2021	11:50		1															
8	BB19858	MMW-15V DUP	GM/G	10/29/2021	11:50		1															
9	BB19859	FB-2	GM/G	10/29/2021	12:10		1															
10	BB19860	MMW-23H	GM/G	10/29/2021	13:45		1															
11	BB19861	MMW-23V	GM/G	10/29/2021	14:32		1															
12	BB19862	MMW-13V	GM/G	10/29/2021	15:41		1															
ADDITIONAL COMMENTS:				REINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION							DATE	TIME	SAMPLE CONDITIONS					
				Laura Midkiff APC GTL		11/2/2021	15:30	<i>[Signature]</i>							11/9/21	1015						
SAMPLER NAME AND SIGNATURE				PRINT Name of SAMPLER:				SIGNATURE of SAMPLER:				DATE Signed:				TEMP In C						

MO#: 92573121

PH: NMG Due Date: 12/10/21
 CLIENT: 92-9L Power

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: lmidkiff@southernco.com
 Phone: 205-664-6197 Fax
 Requested Due Date: 28 days

Section B

Required Project Information:

Report To: Laura Midkiff
 Copy To: Brooke Caton & Renee Jernigan
 Purchase Order #: APC10700668
 Project Name: Plant Barry Ash Pond
 Project Number: VMWBARAP_1345

Section C

Invoice Information:

Attention: Laura Midkiff
 Company Name: Alabama Power Co.
 Address: 744 Highway 87 GSC Bldg #8
 POC Name: Kevin Hemming
 POC Project Manager: Kevin.Hemming@apacelabs.com
 POC Profile #: 13805

Page : 2 Of 6

ITEM #	SAMPLE ID One Character per box (A-Z, 0-9, -,) Sample Ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)			
				START DATE	START TIME			END DATE	END TIME	Unpreserved	H2SO4	HNO3	HCl	NaOH									Na2S2O3	Methanol	Other
1	BB19863	MMW-17H	GMG	10/25/2021	13:43		1	X																	
2	BB19864	MMW-17H DUP	GMG	10/25/2021	13:43		1	X																	
3	BB19865	MMW-17V	GMG	10/25/2021	14:55		1	X																	
4	BB19866	MMW-8	GMG	10/26/2021	9:20		3	X																	
5	BB19867	MMW-8V	GMG	10/26/2021	10:15		1	X																	
6	BB19868	MMW-15V	GMG	10/26/2021	11:35		1	X																	
7	BB19869	MMW-24H	GMG	10/26/2021	12:48		1	X																	
8	BB19870	MMW-15	GMG	10/26/2021	13:48		1	X																	
9	BB19871	MMW-14V	GMG	10/26/2021	15:00		1	X																	
10	BB19872	MMW-13	GMG	10/26/2021	15:52		1	X																	
11	BB19873	FB-1	GMG	10/26/2021	16:10		1	X																	
12																									

REQUISITIONED BY: AFFILIATION: Laura Midkiff/ APC GTL DATE: 11/3/2021 TIME: 15:30

ACCEPTED BY: AFFILIATION: *[Signature]* DATE: 11/9/21 TIME: 10:15

SAMPLER NAME AND SIGNATURE: _____ DATE SIGNED: _____

PRINT NAME OF SAMPLER: _____


SIGNATURE OF SAMPLER: _____

CHAIN-OF-CUSTODY / Analytical Request Document
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Section A Required Client Information: **Section B** Required Project Information: **Section C** Invoice Information:

Company: Alabama Power Company	Report To: Laura Midkiff	Attention: Laura Midkiff
Address: 744 Highway 87 GSC Bldg #8 Calera, AL 35040	Copy To: Brooke Caton & Renee Jermigan	Company Name: Alabama Power Co.
Email To: lbmidkiff@southernco.com	Purchase Order #: APC10700668	Address: 744 Highway 87 GSC Bldg #8
Phone: 205-664-6197	Project Name: Plant Barry Ash Pond	Place Order: CCR
Requested Due Date: 28 days	Project Number: VMWBARAP 1345	Place Project Manager: Kevin.Herring@apacalabs.com
		Place Profile #: 13805
		State/Location: AL

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique	MATRIX Drinking Water Waste Water Process Water Sewage Oil Wine Air Other Tissue	CODE DW WW PW S O W A O T TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyses Test	Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)							
						START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol					Other						
1	BB19962			GW G	10/27/2021 9:20				1	X																	
2	BB19963			GW G	10/27/2021 10:30				1	X																	
3	BB19964			GW G	10/27/2021 12:00				1	X																	
4																											
5																											
6																											
7																											
8																											
9																											
10																											
11																											
12																											

ADDITIONAL COMMENTS:	RELINQUISHED BY / AFFILIATION: Laura Midkiff APC GTL	DATE: 11/2/2021	TIME: 15:30	ACCEPTED BY / AFFILIATION: 	DATE: 11/9/21	TIME: 10:15
SAMPLER NAME AND SIGNATURE						
PRINT Name of SAMPLER:				DATE Signed:		
SIGNATURE OF SAMPLER:				DATE Signed:		

Page : 3 Of 6

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: **Section B** Required Project Information: **Section C** Invoice Information:

Company: Alabama Power Company	Report To: Laura Midkiff	Attention: Laura Midkiff
Address: 744 Highway 87 GSC Bldg #8 Calera, AL 35040	Copy To: Brooke Caton & Renee Jernigan	Company Name: Alabama Power Co.
Email To: lmidkiff@southernco.com	Purchase Order #: APC10700668	Address: 744 Highway 87 GSC Bldg #8
Phone: 205-664-6197 Fax:	Project Name: Plant Barry Ash Pond	Facility: CCR
Requested Due Date: 28 days	Project Number: WWWW/BARAP 1345	Face Project Manager: Kevin.Herring@pecelabs.com
		Face Profile #: 13805
		Requested Analysis Filtered (Y/N): AL
		Regulatory Agency:
		State / Location:

ITEM #	SAMPLE ID (A-Z, 0-9 /, -) Sample IDs must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	Preservatives							Analyses Test	Y/N	Residual Chlorine (Y/N)	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
				START DATE	START TIME				END DATE	END TIME	H2SO4	HNO3	HCl	NaOH	Na2S2O3							
1	BB19865	MMW-7	GMG	10/27/2021	9:57		1	X	X	X	X	X	X	X	X	X						
2	BB19866	MMW-7V	GMG	10/27/2021	10:42		1	X	X	X	X	X	X	X	X	X						
3	BB19867	MMW-14	GMG	10/27/2021	12:07		1	X	X	X	X	X	X	X	X	X						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
ADDITIONAL COMMENTS				RELINQUISHED BY / AFFILIATION				DATE	TIME	ACCEPTED BY / AFFILIATION				DATE	TIME	SAMPLE CONDITIONS						
				Laura Midkiff/ APC GTL				11/3/2021	15:30					11/9/21	10:15							

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

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: Alabama Power Company
 744 Highway 87 GSC Bldg #8
 Calera, AL 35040
 Phone: 205-684-6197 Fax: 205-684-6197
 Requested Due Date: 28 days

Section B Required Project Information:
 Report To: Laura Midkiff
 Copy To: Brooke Catton & Renee Jernigan
 Purchase Order #: APC10700668
 Project Name: Plant Barry Ash Pond
 Project Number: WNWBARAP 1345

Section C Invoice Information:
 Attention: Laura Midkiff
 Company Name: Alabama Power Co.
 Address: 744 Highway 87 GSC Bldg #8
 City: Calera, AL 35040
 State: AL
 Invoice #: 13805
 Date Issued: 11/22/2021

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample IDs must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	Preservatives							Analyses Test	Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)
				START DATE	START TIME				END DATE	END TIME	H2SO4	HNO3	HCl	NaOH	Na2S2O3				
1	BB20272	MW-1V	GWG	11/1/2021	13:31		1	X								X			
2	BB20273	MW-1	GWG	11/1/2021	14:16		1	X								X			
3	BB20274	MW-1 DUP	GWG	11/1/2021	14:16		1	X								X			
4	BB20275	FB-4	GWG	11/1/2021	14:45		1	X								X			
5	BB20276	MW-2	GWG	11/1/2021	15:27		1	X								X			
6	BB20277	MW-3	GWG	11/1/2021	16:32		1	X								X			
7	BB20278	MW-4	GWG	11/1/2021	17:29		1	X								X			
8	BB20279	MW-5V	GWG	11/22/2021	9:06		1	X								X			
9	BB20280	MW-5	GWG	11/22/2021	9:46		1	X								X			
10	BB20281	MW-6	GWG	11/22/2021	10:47		1	X								X			
11																			
12																			

ADDITIONAL COMMENTS: Laura Midkiff APC GTL
 RECEIVED BY / AFFILIATION: Laura Midkiff APC GTL
 DATE: 11/22/2021
 TIME: 15:30
 ACCEPTED BY / AFFILIATION: *[Signature]*
 DATE: 11/22/2021
 TIME: 15:30

SAMPLER MAKE AND SIGNATURE: *[Signature]*
 PRINT NAME OF SAMPLER: *[Signature]*
 SIGNATURE OF SAMPLER: *[Signature]*
 DATE SIGNED: 11/22/2021

TEMP In C: _____
 Received on Ice (Y/N): _____
 Custody Sealed Cooler (Y/N): _____
 Samples Intact (Y/N): _____

CHAIN-OF-CUSTODY / Analytical Request Document

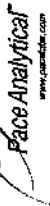
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C 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 Calton & Renee Jernigan	Company Name:	Alabama Power Co.
Email To:	lmickiff@southernco.com	Purchase Order #:	APC10700668	Address:	744 Highway 87 GSC Bldg #8
Phone:	205-864-8197	Project Name:	Plant Barry Ash Pond	Page Project Manager:	Kevin Herring@pacelabs.com
Requested Due Date:	28 days	Project Number:	WNVWBARAP 1345	Page Profile #:	13805
				Requested Analysis Filtered (N):	AL

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9, -,) Sample IDs must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		DATE	TIME	REQUISITIONED BY / AFFILIATION	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	TEMP In C	Residual Chlorine (Y/N)	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)			
				START	END																			
1	BE20282	MM-12V	GMG	11/1/2021	13:45																			
2	BE20283	MM-12	GMG	11/1/2021	14:30																			
3	BE20284	MM-20V	GMG	11/1/2021	15:20																			
4	BE20285	MM-16	GMG	11/1/2021	16:25																			
5	BE20286	MM-25V	GMG	11/2/2021	10:15																			
6	BE20287	MM-25H	GMG	11/2/2021	11:15																			
7	BE20288	EB-1	GMG	11/2/2021	11:45																			
8	BE20289	MM-11	GMG	11/2/2021	12:50																			
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS:		REQUISITIONED BY / AFFILIATION		DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME
		Laura Mickiff APC GTL		11/9/2021	15:30								
		LABORATORY											
		SAMPLER NAME AND SIGNATURE											
		PRINT Name of SAMPLER:											
		SIGNATURE of SAMPLER:											
		DATE Signed:											

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: JJY
Date: 12/16/2021
Worklist: 63938
Matrix: DW

Method Blank Assessment	
MB Sample ID	2291660
MB Concentration:	0.272
MB Counting Uncertainty:	0.207
MB MDC:	0.341
MB Numerical Performance Indicator:	2.58
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCSD (Y or N)?	Y
Count Date:		LCSD63938	1/6/2022
Spike I.D.:		19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):		24.031	24.031
Volume Used (mL):		0.10	0.10
Aliquot Volume (L, g, F):		0.208	0.208
Target Conc. (pCi/L, g, F):		11.528	11.574
Uncertainty (Calculated):		0.138	0.138
Result (pCi/L, g, F):		12.554	13.933
LCS/LCSD Counting Uncertainty (pCi/L, g, F):		1.140	1.228
Numerical Performance Indicator:		1.75	3.74
Percent Recovery:		108.90%	120.38%
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.:	LCSD63938
Duplicate Sample I.D.:	LCSD63938
Duplicate Result (pCi/L, g, F):	12.554
Sample Result Counting Uncertainty (pCi/L, g, F):	1.140
Sample Duplicate Result (pCi/L, g, F):	13.933
Sample Duplicate Counting Uncertainty (pCi/L, g, F):	1.228
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	-1.613
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	10.01%
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:

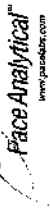
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Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:		10/25/2021	
Sample I.D.:		92573121004	
Sample MS I.D.:		92573121005	
Sample MSD I.D.:		92573121006	
Spike I.D.:		19-033	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		24.033	
Spike Volume Used in MS (mL):		0.20	
MS Aliquot (L, g, F):		0.205	
MS Target Conc. (pCi/L, g, F):		23.463	
MSD Aliquot (L, g, F):		0.205	
MSD Target Conc. (pCi/L, g, F):		23.417	
MS Spike Uncertainty (calculated):		0.282	
MSD Spike Uncertainty (calculated):		0.281	
Sample Result Counting Uncertainty (pCi/L, g, F):		0.185	
Sample Matrix Spike Result:		0.215	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		25.357	
Sample Matrix Spike Duplicate Result:		1.782	
Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		21.513	
MS Numerical Performance Indicator:		1.574	
MSD Numerical Performance Indicator:		1.844	
MS Percent Recovery:		-2.538	
MSD Percent Recovery:		107.29%	
MS Status vs Numerical Indicator:		91.08%	
MS Status vs Recovery:		N/A	
MSD Status vs Recovery:		N/A	
MS/MSD Upper % Recovery Limits:		Pass	
MS/MSD Lower % Recovery Limits:		125%	
% RPD Limit:		75%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	92573121004
Sample MS I.D.:	92573121005
Sample MSD I.D.:	92573121006
Sample Matrix Spike Result:	25.357
Sample Matrix Spike Duplicate Result:	1.782
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	21.513
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.574
Duplicate Numerical Performance Indicator:	3.169
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	16.34%
MS/MSD Duplicate Status vs Numerical Indicator:	N/A
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Handwritten signature/initials

Quality Control Sample Performance Assessment



Test: Ra-228
Analyst: VAL
Date: 12/15/2021
Worklist: 64090
Matrix: WT

Method Blank Assessment	
MB Sample ID	2297613
MB concentration:	0.529
MB 2 Sigma CSU:	0.291
MB MDC:	0.510
MB Numerical Performance Indicator:	3.56
MB Status vs. Numerical Indicator:	Fail*
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment	
LCSD (Y or N)?	N
LCSD64090	LCSD64090
Count Date:	12/21/2021
Spike ID:	21-029
Decay Corrected Spike Concentration (pCi/mL):	37.008
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.817
Target Conc. (pCi/L, g, F):	4.530
Uncertainty (Calculated):	0.222
Result (pCi/L, g, F):	4.325
LCSD/LCSD 2 Sigma CSU (pCi/L, g, F):	0.965
Numerical Performance Indicator:	-0.41
Percent Recovery:	95.48%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	135%
Lower % Recovery Limits:	60%

Duplicate Sample Assessment	
Sample ID:	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample ID:	
Sample Result (pCi/L, g, F):	
Sample Result 2 Sigma CSU (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	
Duplicate Numerical Performance Indicator:	
Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
Duplicate Status vs RPD:	
% RPD Limit:	

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

Comments:

*The method blank result is below the reporting limit for this analysis and is acceptable.

12/23/21

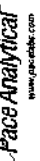
Analyst Must Manually Enter All Fields Highlighted In Yellow.

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:	Sample I.D.	10/25/2021	
Sample MS I.D.	Sample MS I.D.	92573121004	
Sample MSD I.D.	Sample MSD I.D.	92573121005	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	Spike I.D.:	21-029	
Spike Volume Used in MS (mL):	Spike I.D.:	37.709	
Spike Volume Used in MSD (mL):	MS Target Conc. (pCi/L, g, F):	0.20	
MS Aliquot (L, g, F):	MS Aliquot (L, g, F):	0.815	
MS Target Conc. (pCi/L, g, F):	MSD Aliquot (L, g, F):	9.259	
MSD Aliquot (L, g, F):	MS Spike Uncertainty (calculated):	0.811	
MS Spike Uncertainty (calculated):	MSD Spike Uncertainty (calculated):	9.301	
MSD Spike Uncertainty (calculated):	Sample Result:	0.454	
Sample Result 2 Sigma CSU (pCi/L, g, F):	Sample Matrix Spike Result:	0.456	
Sample Matrix Spike Result:	Sample Matrix Spike Duplicate Result:	0.432	
Sample Matrix Spike Duplicate Result:	Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	11.145	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	MS Numerical Performance Indicator:	2.204	
MS Numerical Performance Indicator:	MSD Numerical Performance Indicator:	9.566	
MS Percent Recovery:	MS Percent Recovery:	1.915	
MS Status vs Numerical Indicator:	MS Status vs Numerical Indicator:	0.893	
MS Status vs Recovery:	MS Status vs Recovery:	-0.560	
MS/MSD Upper % Recovery Limits:	MS/MSD Upper % Recovery Limits:	111.28%	
MS/MSD Lower % Recovery Limits:	MS/MSD Lower % Recovery Limits:	93.81%	
		Pass	
		Pass	
		Pass	
		Pass	
		135%	
		60%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.	92573121004
Sample MS I.D.	92573121005
Sample MSD I.D.	92573121006
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	11.145
Sample Matrix Spike Duplicate Result:	2.204
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	9.566
Duplicate Numerical Performance Indicator:	1.915
Duplicate Numerical Performance Indicator (Based on the Percent Recoveries):	1.059
MS/MSD Duplicate RPD:	17.03%
MS/MSD Duplicate Status vs Numerical Indicator:	Pass
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

12/23/21

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: JC2
Date: 12/15/2021
Worklist: 64091
Matrix: WT

Method Blank Assessment	
MB Sample ID	2297614
MB concentration:	0.410
MB 2 Sigma CSU:	0.384
MB MDC:	0.742
MB Numerical Performance Indicator:	2.09
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCSD (Y or N)?	N
		LCSD64091	LCSD64091
Count Date:	12/28/2021		
Spike I.D.:	21-029		
Decay Corrected Spike Concentration (pCi/mL):	36.922		
Volume Used (mL):	0.10		
Aliquot Volume (L, g, F):	0.814		
Target Conc. (pCi/L, g, F):	4.536		
Uncertainty (Calculated):	0.222		
Result (pCi/L, g, F):	5.349		
LCSD/LCSD 2 Sigma CSU (pCi/L, g, F):	1.349		
Numerical Performance Indicator:	117.93%		
Percent Recovery:	N/A		
Status vs Numerical Indicator:	Pass		
Status vs Recovery:	135%		
Upper % Recovery Limits:	60%		
Lower % Recovery Limits:			

Duplicate Sample Assessment		Enter Duplicate sample IDs if other than LCS/LCSD in the space below:
Sample I.D.:		
Duplicate Sample I.D.:		
Sample Result (pCi/L, g, F):		
Duplicate Result (pCi/L, g, F):		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Sample Duplicate Result (pCi/L, g, F):		
Duplicate Duplicate Result (pCi/L, g, F):		
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Are sample and/or duplicate results below RL?		
Duplicate Numerical Performance Indicator:		
Duplicate RPD:		
Duplicate Status vs Numerical Indicator:		
Duplicate Status vs RPD:		
% RPD Limit:		

See Below ##

Comments:

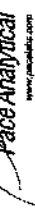
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Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:	10/26/2021		
Sample I.D.:	92573121018		
Sample MS I.D.:	92573121019		
Sample MSD I.D.:	92573121020		
Spike I.D.:	21-029		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	37.700		
Spike Volume Used in MS (mL):	0.20		
Spike Volume Used in MSD (mL):	0.20		
MS Aliquot (L, g, F):	0.811		
MS Aliquot (L, g, F):	0.808		
MS Target Conc. (pCi/L, g, F):	9.300		
MSD Aliquot (L, g, F):	0.808		
MSD Target Conc. (pCi/L, g, F):	9.334		
MS Spike Uncertainty (calculated):	0.456		
MSD Spike Uncertainty (calculated):	0.457		
Sample Result:	1.100		
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.527		
Sample Matrix Spike Result:	9.871		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	2.085		
Sample Matrix Spike Duplicate Result:	8.918		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.887		
MS Numerical Performance Indicator:	-0.471		
MSD Numerical Performance Indicator:	-1.471		
MS Percent Recovery:	94.32%		
MSD Percent Recovery:	83.76%		
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.:	92573121018
Sample MS I.D.:	92573121019
Sample MSD I.D.:	92573121020
Matrix Spike Result:	9.871
Sample Matrix Spike Result:	2.085
Matrix Spike Duplicate Result:	8.918
Sample Matrix Spike Duplicate Result:	1.887
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.664
Duplicate Numerical Performance Indicator:	11.86%
MS/MSD Duplicate RPD:	Pass
MS/MSD Duplicate Status vs Numerical Indicator:	Pass
MS/MSD Duplicate Status vs RPD:	36%
% RPD Limit:	

Handwritten signature/initials

Quality Control Sample Performance Assessment



Test: Ra-228
Analyst: VAL
Date: 12/15/2021
Worklist: 64092
Matrix: WT

Method Blank Assessment

MB Sample ID	2297615
MB concentration:	0.691
MB 2 Sigma CSU:	0.401
MB MDC:	0.728
MB Numerical Performance Indicator:	3.38
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment

LCSID (Y or N)?	Y	
	LCS64092	LCS64092
Count Date:	12/27/2021	12/27/2021
Spike ID:	21-029	21-029
Decay Corrected Spike Concentration (pCi/mL):	36.935	36.935
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.811	0.806
Target Conc. (pCi/L, g, F):	4.552	4.585
Uncertainty (calculated):	0.223	0.225
Result (pCi/L, g, F):	3.970	4.502
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.945	1.025
Numerical Performance Indicator:	-1.17	-0.15
Percent Recovery:	87.22%	98.20%
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.:	LCS64092	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.:	LCS64092	
Sample Result (pCi/L, g, F):	3.970	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.945	
Sample Duplicate Result (pCi/L, g, F):	4.502	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.025	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.749	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	11.85%	
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:

*If the lowest activity sample in this batch is greater than ten times the blank value, the blank is acceptable; otherwise this batch must be re-prepped.

Analyst Must Manually Enter All Fields Highlighted in Yellow.

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

Matrix Spike/Matrix Spike Duplicate Sample Assessment

<p>Sample I.D. Sample MS I.D. Sample MSD I.D.</p> <p>Sample Matrix Spike Result: Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): Duplicate Numerical Performance Indicator: (Based on the Percent Recoveries) MS/MSD Duplicate RPD: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD: % RPD Limit:</p>	
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Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: JJY
Date: 12/16/2021
Worklist: 63939
Matrix: DW

Method Blank Assessment	
MB Sample ID	2291661
MB Concentration:	0.494
MB Counting Uncertainty:	0.247
MB MDC:	0.379
MB Numerical Performance Indicator:	3.21
MB Status vs Numerical Indicator:	N/A
MB Status vs MDC:	See Comment*

Laboratory Control Sample Assessment		LCS#	Y or N?
Count Date:		LCS063939	Y
Spike I.D.:		1/6/2022	
Decay Corrected Spike Concentration (pCi/mL):		19-033	1/6/2022
Volume Used (mL):		24.031	24.031
Aliquot Volume (L, g, F):		0.10	0.10
Target Conc. (pCi/L, g, F):		0.214	0.212
Uncertainty (Calculated):		11.220	11.357
Result (pCi/L, g, F):		0.135	0.136
LCS/LCSD Counting Uncertainty (pCi/L, g, F):		11.062	12.296
Numerical Performance Indicator:		1.108	1.168
Percent Recovery:		-0.28	1.56
Status vs Numerical Indicator:		98.58%	108.26%
Upper % Recovery Limits:		N/A	N/A
Lower % Recovery Limits:		Pass	Pass
		125%	125%
		75%	75%

Duplicate Sample Assessment	
Sample I.D.:	LCS063939
Duplicate Sample I.D.:	LCS063939
Sample Result Counting Uncertainty (pCi/L, g, F):	11.062
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.108
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	12.296
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.168
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	-1.502
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	9.35%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

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

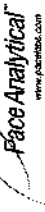
Comments:
*The method blank result is below the reporting limit for this analysis and is acceptable.

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:		10/26/2021	
Sample I.D.:		92573121018	
Sample MS I.D.:		92573121019	
Sample MSD I.D.:		92573121020	
Spike I.D.:		19-033	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		24.033	
Spike Volume Used in MS (mL):		0.20	
Spike Volume Used in MSD (mL):		0.20	
MS Aliquot (L, g, F):		0.207	
MS Target Conc. (pCi/L, g, F):		23.276	
MSD Aliquot (L, g, F):		0.208	
MSD Target Conc. (pCi/L, g, F):		23.084	
MS Spike Uncertainty (calculated):		0.279	
MSD Spike Uncertainty (calculated):		0.277	
Sample Result:		0.507	
Sample Result Counting Uncertainty (pCi/L, g, F):		0.269	
Sample Matrix Spike Result:		25.984	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		1.785	
Sample Matrix Spike Duplicate Result:		23.499	
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):		1.625	
MS Numerical Performance Indicator:		2.361	
MSD Numerical Performance Indicator:		-0.108	
MS Percent Recovery:		109.45%	
MSD Percent Recovery:		99.60%	
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.:	92573121018
Sample MS I.D.:	92573121019
Sample MSD I.D.:	92573121020
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	25.984
Sample Matrix Spike Duplicate Result:	1.785
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	23.499
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.625
Matrix Spike Duplicate Numerical Performance Indicator:	2.018
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	9.43%
MS/MSD Duplicate Status vs Numerical Indicator:	N/A
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

QC

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: JJY
Date: 12/20/2021
Worklist: 63940
Matrix: DW

Method Blank Assessment	
MB Sample ID	2291663
MB concentration:	-0.105
M/B Counting Uncertainty:	0.107
MB MDC:	0.425
MB Numerical Performance Indicator:	-1.91
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCS# (Y or N)†	Y
LCS63940	LCS D63940
17/10/2022	17/10/2022
19-033	19-033
24.031	24.031
0.10	0.10
0.206	0.207
11.692	11.614
0.140	0.139
13.308	13.359
1.276	1.231
2.47	2.76
113.83%	115.03%
N/A	N/A
Pass	Pass
125%	125%
75%	75%

Duplicate Sample Assessment	
Sample I.D.:	92573121041
Duplicate Sample I.D.:	92573121041DUP
Sample Result Counting Uncertainty (pCi/L, g, F):	0.158
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.257
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.471
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.333
Are sample and/or duplicate results below RL?	See Below #
Duplicate Numerical Performance Indicator:	-1.463
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	99.80%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Fail***
% RPD Limit:	25%

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

Comments:

***Batch must be re-assessed due to unacceptable precision. N/A
LAM 1/10/22

Sample Matrix Spike Control Assessment	
Sample Collection Date:	Sample I.D.:
Sample MS I.D.:	Sample MS I.D.:
Sample MSD I.D.:	Sample MSD I.D.:
Spike 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 Target Conc. (pCi/L, g, F):
MS Spike Uncertainty (calculated):	MSD Target Conc. (pCi/L, g, F):
MSD Spike Uncertainty (calculated):	MS Spike Uncertainty (calculated):
Sample Result Counting Uncertainty (pCi/L, g, F):	MSD Spike Uncertainty (calculated):
Sample Matrix Spike Result:	Sample Result Counting Uncertainty (pCi/L, g, F):
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	Sample Matrix Spike Result:
Sample Matrix Spike Duplicate Result:	Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	Sample Matrix Spike Duplicate Result:
MS Numerical Performance Indicator:	Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
MSD Numerical Performance Indicator:	MS Numerical Performance Indicator:
MS Percent Recovery:	MSD Numerical Performance Indicator:
MSD Percent Recovery:	MS Percent Recovery:
MS Status vs Numerical Indicator:	MSD Percent Recovery:
MSD Status vs Numerical Indicator:	MS Status vs Numerical Indicator:
MS Status vs Recovery:	MSD Status vs Numerical Indicator:
MS/MSD Upper % Recovery Limits:	MS Status vs Recovery:
MS/MSD Lower % Recovery Limits:	MS/MSD Upper % Recovery Limits:
	MS/MSD Lower % Recovery Limits:

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	Sample I.D.:
Sample MS I.D.:	Sample MS I.D.:
Sample MSD I.D.:	Sample MSD I.D.:
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	Sample Matrix Spike Result:
Sample Matrix Spike Duplicate Result:	Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:	Sample Matrix Spike Duplicate Result:
Duplicate Numerical Performance Indicator:	Sample Matrix Spike Duplicate Result:
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	Duplicate Numerical Performance Indicator:
MS/MSD Duplicate Status vs Numerical Indicator:	(Based on the Percent Recoveries) MS/MSD Duplicate RPD:
MS/MSD Duplicate Status vs RPD:	MS/MSD Duplicate Status vs Numerical Indicator:
% RPD Limit:	MS/MSD Duplicate Status vs RPD:
	% RPD Limit:

LAM 1/10/22

**Alabama Power Company
Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-7	10/27/2021 9:39	Conductivity	252.2	uS/cm
BY-AP-MW-7	10/27/2021 9:39	DO	0.26	mg/L
BY-AP-MW-7	10/27/2021 9:39	Depth to Water Detail	22.83	ft
BY-AP-MW-7	10/27/2021 9:39	Oxidation Reduction Potention	-64.48	mv
BY-AP-MW-7	10/27/2021 9:39	pH	6.31	SU
BY-AP-MW-7	10/27/2021 9:39	Temperature	21.46	C
BY-AP-MW-7	10/27/2021 9:39	Turbidity	10.93	NTU
BY-AP-MW-7	10/27/2021 9:44	Conductivity	247.11	uS/cm
BY-AP-MW-7	10/27/2021 9:44	DO	0.23	mg/L
BY-AP-MW-7	10/27/2021 9:44	Depth to Water Detail	22.83	ft
BY-AP-MW-7	10/27/2021 9:44	Oxidation Reduction Potention	-61.88	mv
BY-AP-MW-7	10/27/2021 9:44	pH	6.38	SU
BY-AP-MW-7	10/27/2021 9:44	Temperature	21.47	C
BY-AP-MW-7	10/27/2021 9:44	Turbidity	16.7	NTU
BY-AP-MW-7	10/27/2021 9:49	Conductivity	244.23	uS/cm
BY-AP-MW-7	10/27/2021 9:49	DO	0.22	mg/L
BY-AP-MW-7	10/27/2021 9:49	Depth to Water Detail	22.83	ft
BY-AP-MW-7	10/27/2021 9:49	Oxidation Reduction Potention	-58.34	mv
BY-AP-MW-7	10/27/2021 9:49	pH	6.4	SU
BY-AP-MW-7	10/27/2021 9:49	Temperature	21.45	C
BY-AP-MW-7	10/27/2021 9:49	Turbidity	7.43	NTU
BY-AP-MW-7	10/27/2021 9:54	Conductivity	241.68	uS/cm
BY-AP-MW-7	10/27/2021 9:54	DO	0.22	mg/L
BY-AP-MW-7	10/27/2021 9:54	Depth to Water Detail	22.83	ft
BY-AP-MW-7	10/27/2021 9:54	Oxidation Reduction Potention	-52.31	mv
BY-AP-MW-7	10/27/2021 9:54	pH	6.35	SU
BY-AP-MW-7	10/27/2021 9:54	Temperature	21.45	C
BY-AP-MW-7	10/27/2021 9:54	Turbidity	4.81	NTU

**Alabama Power Company
Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-7V	10/27/2021 10:23	Conductivity	305.39	uS/cm
BY-AP-MW-7V	10/27/2021 10:23	DO	0.32	mg/L
BY-AP-MW-7V	10/27/2021 10:23	Depth to Water Detail	22.47	ft
BY-AP-MW-7V	10/27/2021 10:23	Oxidation Reduction Potention	-88.35	mv
BY-AP-MW-7V	10/27/2021 10:23	pH	6.81	SU
BY-AP-MW-7V	10/27/2021 10:23	Temperature	21.7	C
BY-AP-MW-7V	10/27/2021 10:23	Turbidity	2.84	NTU
BY-AP-MW-7V	10/27/2021 10:28	Conductivity	309.84	uS/cm
BY-AP-MW-7V	10/27/2021 10:28	DO	0.26	mg/L
BY-AP-MW-7V	10/27/2021 10:28	Depth to Water Detail	22.47	ft
BY-AP-MW-7V	10/27/2021 10:28	Oxidation Reduction Potention	-94.8	mv
BY-AP-MW-7V	10/27/2021 10:28	pH	6.82	SU
BY-AP-MW-7V	10/27/2021 10:28	Temperature	21.73	C
BY-AP-MW-7V	10/27/2021 10:28	Turbidity	2.51	NTU
BY-AP-MW-7V	10/27/2021 10:33	Conductivity	316.15	uS/cm
BY-AP-MW-7V	10/27/2021 10:33	DO	0.24	mg/L
BY-AP-MW-7V	10/27/2021 10:33	Depth to Water Detail	22.47	ft
BY-AP-MW-7V	10/27/2021 10:33	Oxidation Reduction Potention	-98.51	mv
BY-AP-MW-7V	10/27/2021 10:33	pH	6.82	SU
BY-AP-MW-7V	10/27/2021 10:33	Temperature	21.71	C
BY-AP-MW-7V	10/27/2021 10:33	Turbidity	2.43	NTU
BY-AP-MW-7V	10/27/2021 10:38	Conductivity	319.93	uS/cm
BY-AP-MW-7V	10/27/2021 10:38	DO	0.24	mg/L
BY-AP-MW-7V	10/27/2021 10:38	Depth to Water Detail	22.47	ft
BY-AP-MW-7V	10/27/2021 10:38	Oxidation Reduction Potention	-98.44	mv
BY-AP-MW-7V	10/27/2021 10:38	pH	6.78	SU
BY-AP-MW-7V	10/27/2021 10:38	Temperature	21.81	C
BY-AP-MW-7V	10/27/2021 10:38	Turbidity	2.43	NTU

**Alabama Power Company
Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-13V	10/26/2021 15:18	Conductivity	668.91	uS/cm
BY-AP-MW-13V	10/26/2021 15:18	DO	0.3	mg/L
BY-AP-MW-13V	10/26/2021 15:18	Depth to Water Detail	23	ft
BY-AP-MW-13V	10/26/2021 15:18	Oxidation Reduction Potention	-78.19	mv
BY-AP-MW-13V	10/26/2021 15:18	pH	7.02	SU
BY-AP-MW-13V	10/26/2021 15:18	Temperature	21.08	C
BY-AP-MW-13V	10/26/2021 15:18	Turbidity	3.05	NTU
BY-AP-MW-13V	10/26/2021 15:23	Conductivity	647.83	uS/cm
BY-AP-MW-13V	10/26/2021 15:23	DO	0.25	mg/L
BY-AP-MW-13V	10/26/2021 15:23	Depth to Water Detail	23	ft
BY-AP-MW-13V	10/26/2021 15:23	Oxidation Reduction Potention	-76.26	mv
BY-AP-MW-13V	10/26/2021 15:23	pH	6.94	SU
BY-AP-MW-13V	10/26/2021 15:23	Temperature	21.03	C
BY-AP-MW-13V	10/26/2021 15:23	Turbidity	2.8	NTU
BY-AP-MW-13V	10/26/2021 15:28	Conductivity	627.34	uS/cm
BY-AP-MW-13V	10/26/2021 15:28	DO	0.25	mg/L
BY-AP-MW-13V	10/26/2021 15:28	Depth to Water Detail	23	ft
BY-AP-MW-13V	10/26/2021 15:28	Oxidation Reduction Potention	-73.36	mv
BY-AP-MW-13V	10/26/2021 15:28	pH	6.87	SU
BY-AP-MW-13V	10/26/2021 15:28	Temperature	20.98	C
BY-AP-MW-13V	10/26/2021 15:28	Turbidity	2.69	NTU
BY-AP-MW-13V	10/26/2021 15:33	Conductivity	609.42	uS/cm
BY-AP-MW-13V	10/26/2021 15:33	DO	0.24	mg/L
BY-AP-MW-13V	10/26/2021 15:33	Depth to Water Detail	23	ft
BY-AP-MW-13V	10/26/2021 15:33	Oxidation Reduction Potention	-71.57	mv
BY-AP-MW-13V	10/26/2021 15:33	pH	6.84	SU
BY-AP-MW-13V	10/26/2021 15:33	Temperature	20.89	C
BY-AP-MW-13V	10/26/2021 15:33	Turbidity	2.42	NTU
BY-AP-MW-13V	10/26/2021 15:38	Conductivity	600.49	uS/cm
BY-AP-MW-13V	10/26/2021 15:38	DO	0.23	mg/L
BY-AP-MW-13V	10/26/2021 15:38	Depth to Water Detail	23	ft
BY-AP-MW-13V	10/26/2021 15:38	Oxidation Reduction Potention	-70.03	mv
BY-AP-MW-13V	10/26/2021 15:38	pH	6.81	SU
BY-AP-MW-13V	10/26/2021 15:38	Temperature	20.92	C
BY-AP-MW-13V	10/26/2021 15:38	Turbidity	2.77	NTU

**Alabama Power Company
Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-14	10/27/2021 11:44	Conductivity	525.05	uS/cm
BY-AP-MW-14	10/27/2021 11:44	DO	0.26	mg/L
BY-AP-MW-14	10/27/2021 11:44	Depth to Water Detail	10	ft
BY-AP-MW-14	10/27/2021 11:44	Oxidation Reduction Potention	-41.4	mv
BY-AP-MW-14	10/27/2021 11:44	pH	6.7	SU
BY-AP-MW-14	10/27/2021 11:44	Temperature	20.72	C
BY-AP-MW-14	10/27/2021 11:44	Turbidity	3.73	NTU
BY-AP-MW-14	10/27/2021 11:49	Conductivity	525.77	uS/cm
BY-AP-MW-14	10/27/2021 11:49	DO	0.23	mg/L
BY-AP-MW-14	10/27/2021 11:49	Depth to Water Detail	10	ft
BY-AP-MW-14	10/27/2021 11:49	Oxidation Reduction Potention	-45.58	mv
BY-AP-MW-14	10/27/2021 11:49	pH	6.64	SU
BY-AP-MW-14	10/27/2021 11:49	Temperature	20.67	C
BY-AP-MW-14	10/27/2021 11:49	Turbidity	3.73	NTU
BY-AP-MW-14	10/27/2021 11:54	Conductivity	520.34	uS/cm
BY-AP-MW-14	10/27/2021 11:54	DO	0.22	mg/L
BY-AP-MW-14	10/27/2021 11:54	Depth to Water Detail	10	ft
BY-AP-MW-14	10/27/2021 11:54	Oxidation Reduction Potention	-47.64	mv
BY-AP-MW-14	10/27/2021 11:54	pH	6.55	SU
BY-AP-MW-14	10/27/2021 11:54	Temperature	20.7	C
BY-AP-MW-14	10/27/2021 11:54	Turbidity	3.91	NTU
BY-AP-MW-14	10/27/2021 11:59	Conductivity	517.39	uS/cm
BY-AP-MW-14	10/27/2021 11:59	DO	0.21	mg/L
BY-AP-MW-14	10/27/2021 11:59	Depth to Water Detail	10	ft
BY-AP-MW-14	10/27/2021 11:59	Oxidation Reduction Potention	-46.65	mv
BY-AP-MW-14	10/27/2021 11:59	pH	6.44	SU
BY-AP-MW-14	10/27/2021 11:59	Temperature	20.67	C
BY-AP-MW-14	10/27/2021 11:59	Turbidity	4.28	NTU
BY-AP-MW-14	10/27/2021 12:04	Conductivity	513.72	uS/cm
BY-AP-MW-14	10/27/2021 12:04	DO	0.21	mg/L
BY-AP-MW-14	10/27/2021 12:04	Depth to Water Detail	10	ft
BY-AP-MW-14	10/27/2021 12:04	Oxidation Reduction Potention	-49	mv
BY-AP-MW-14	10/27/2021 12:04	pH	6.41	SU
BY-AP-MW-14	10/27/2021 12:04	Temperature	20.55	C
BY-AP-MW-14	10/27/2021 12:04	Turbidity	4.39	NTU

**Alabama Power Company
Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-15V	10/26/2021 11:33	Conductivity	642.55	uS/cm
BY-AP-MW-15V	10/26/2021 11:33	DO	0.39	mg/L
BY-AP-MW-15V	10/26/2021 11:33	Depth to Water Detail	4.24	ft
BY-AP-MW-15V	10/26/2021 11:33	Oxidation Reduction Potention	11.87	mv
BY-AP-MW-15V	10/26/2021 11:33	pH	5.94	SU
BY-AP-MW-15V	10/26/2021 11:33	Temperature	21.06	C
BY-AP-MW-15V	10/26/2021 11:33	Turbidity	3.43	NTU
BY-AP-MW-15V	10/26/2021 11:38	Conductivity	655.48	uS/cm
BY-AP-MW-15V	10/26/2021 11:38	DO	0.34	mg/L
BY-AP-MW-15V	10/26/2021 11:38	Depth to Water Detail	4.24	ft
BY-AP-MW-15V	10/26/2021 11:38	Oxidation Reduction Potention	10.37	mv
BY-AP-MW-15V	10/26/2021 11:38	pH	5.94	SU
BY-AP-MW-15V	10/26/2021 11:38	Temperature	21.04	C
BY-AP-MW-15V	10/26/2021 11:38	Turbidity	1.64	NTU
BY-AP-MW-15V	10/26/2021 11:43	Conductivity	659.51	uS/cm
BY-AP-MW-15V	10/26/2021 11:43	DO	0.3	mg/L
BY-AP-MW-15V	10/26/2021 11:43	Depth to Water Detail	4.24	ft
BY-AP-MW-15V	10/26/2021 11:43	Oxidation Reduction Potention	9.67	mv
BY-AP-MW-15V	10/26/2021 11:43	pH	5.93	SU
BY-AP-MW-15V	10/26/2021 11:43	Temperature	21.06	C
BY-AP-MW-15V	10/26/2021 11:43	Turbidity	1.61	NTU
BY-AP-MW-15V	10/26/2021 11:48	Conductivity	661.41	uS/cm
BY-AP-MW-15V	10/26/2021 11:48	DO	0.3	mg/L
BY-AP-MW-15V	10/26/2021 11:48	Depth to Water Detail	4.24	ft
BY-AP-MW-15V	10/26/2021 11:48	Oxidation Reduction Potention	8.21	mv
BY-AP-MW-15V	10/26/2021 11:48	pH	5.93	SU
BY-AP-MW-15V	10/26/2021 11:48	Temperature	21.09	C
BY-AP-MW-15V	10/26/2021 11:48	Turbidity	1.82	NTU

**Alabama Power Company
Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-18H	10/25/2021 14:19	Conductivity	505.28	uS/cm
BY-AP-MW-18H	10/25/2021 14:19	DO	0.26	mg/L
BY-AP-MW-18H	10/25/2021 14:19	Depth to Water Detail	8.15	ft
BY-AP-MW-18H	10/25/2021 14:19	Oxidation Reduction Potention	-81.08	mv
BY-AP-MW-18H	10/25/2021 14:19	pH	6.95	SU
BY-AP-MW-18H	10/25/2021 14:19	Temperature	20.92	C
BY-AP-MW-18H	10/25/2021 14:19	Turbidity	11.8	NTU
BY-AP-MW-18H	10/25/2021 14:24	Conductivity	512.29	uS/cm
BY-AP-MW-18H	10/25/2021 14:24	DO	0.28	mg/L
BY-AP-MW-18H	10/25/2021 14:24	Depth to Water Detail	8.15	ft
BY-AP-MW-18H	10/25/2021 14:24	Oxidation Reduction Potention	-80.17	mv
BY-AP-MW-18H	10/25/2021 14:24	pH	6.88	SU
BY-AP-MW-18H	10/25/2021 14:24	Temperature	20.9	C
BY-AP-MW-18H	10/25/2021 14:24	Turbidity	8.21	NTU
BY-AP-MW-18H	10/25/2021 14:29	Conductivity	509.35	uS/cm
BY-AP-MW-18H	10/25/2021 14:29	DO	0.26	mg/L
BY-AP-MW-18H	10/25/2021 14:29	Depth to Water Detail	8.15	ft
BY-AP-MW-18H	10/25/2021 14:29	Oxidation Reduction Potention	-79.02	mv
BY-AP-MW-18H	10/25/2021 14:29	pH	6.8	SU
BY-AP-MW-18H	10/25/2021 14:29	Temperature	20.94	C
BY-AP-MW-18H	10/25/2021 14:29	Turbidity	5.48	NTU
BY-AP-MW-18H	10/25/2021 14:34	Conductivity	508.75	uS/cm
BY-AP-MW-18H	10/25/2021 14:34	DO	0.23	mg/L
BY-AP-MW-18H	10/25/2021 14:34	Depth to Water Detail	8.15	ft
BY-AP-MW-18H	10/25/2021 14:34	Oxidation Reduction Potention	-77.97	mv
BY-AP-MW-18H	10/25/2021 14:34	pH	6.76	SU
BY-AP-MW-18H	10/25/2021 14:34	Temperature	20.96	C
BY-AP-MW-18H	10/25/2021 14:34	Turbidity	4.13	NTU

**Alabama Power Company
Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-19H	10/25/2021 15:23	Conductivity	168.97	uS/cm
BY-AP-MW-19H	10/25/2021 15:23	DO	0.54	mg/L
BY-AP-MW-19H	10/25/2021 15:23	Depth to Water Detail	7.21	ft
BY-AP-MW-19H	10/25/2021 15:23	Oxidation Reduction Potention	34.28	mv
BY-AP-MW-19H	10/25/2021 15:23	pH	6.21	SU
BY-AP-MW-19H	10/25/2021 15:23	Temperature	21.35	C
BY-AP-MW-19H	10/25/2021 15:23	Turbidity	3.94	NTU
BY-AP-MW-19H	10/25/2021 15:28	Conductivity	175.71	uS/cm
BY-AP-MW-19H	10/25/2021 15:28	DO	0.48	mg/L
BY-AP-MW-19H	10/25/2021 15:28	Depth to Water Detail	7.21	ft
BY-AP-MW-19H	10/25/2021 15:28	Oxidation Reduction Potention	25.38	mv
BY-AP-MW-19H	10/25/2021 15:28	pH	6.17	SU
BY-AP-MW-19H	10/25/2021 15:28	Temperature	21.29	C
BY-AP-MW-19H	10/25/2021 15:28	Turbidity	2.15	NTU
BY-AP-MW-19H	10/25/2021 15:33	Conductivity	182.66	uS/cm
BY-AP-MW-19H	10/25/2021 15:33	DO	0.44	mg/L
BY-AP-MW-19H	10/25/2021 15:33	Depth to Water Detail	7.21	ft
BY-AP-MW-19H	10/25/2021 15:33	Oxidation Reduction Potention	15.92	mv
BY-AP-MW-19H	10/25/2021 15:33	pH	6.16	SU
BY-AP-MW-19H	10/25/2021 15:33	Temperature	21.22	C
BY-AP-MW-19H	10/25/2021 15:33	Turbidity	1.68	NTU
BY-AP-MW-19H	10/25/2021 15:38	Conductivity	187.07	uS/cm
BY-AP-MW-19H	10/25/2021 15:38	DO	0.38	mg/L
BY-AP-MW-19H	10/25/2021 15:38	Depth to Water Detail	7.21	ft
BY-AP-MW-19H	10/25/2021 15:38	Oxidation Reduction Potention	8.6	mv
BY-AP-MW-19H	10/25/2021 15:38	pH	6.15	SU
BY-AP-MW-19H	10/25/2021 15:38	Temperature	21.18	C
BY-AP-MW-19H	10/25/2021 15:38	Turbidity	1.66	NTU
BY-AP-MW-19H	10/25/2021 15:43	Conductivity	193.49	uS/cm
BY-AP-MW-19H	10/25/2021 15:43	DO	0.38	mg/L
BY-AP-MW-19H	10/25/2021 15:43	Depth to Water Detail	7.21	ft
BY-AP-MW-19H	10/25/2021 15:43	Oxidation Reduction Potention	0.58	mv
BY-AP-MW-19H	10/25/2021 15:43	pH	6.13	SU
BY-AP-MW-19H	10/25/2021 15:43	Temperature	21.11	C
BY-AP-MW-19H	10/25/2021 15:43	Turbidity	1.77	NTU
BY-AP-MW-19H	10/25/2021 15:48	Conductivity	194.16	uS/cm
BY-AP-MW-19H	10/25/2021 15:48	DO	0.35	mg/L
BY-AP-MW-19H	10/25/2021 15:48	Depth to Water Detail	7.21	ft
BY-AP-MW-19H	10/25/2021 15:48	Oxidation Reduction Potention	-3.83	mv
BY-AP-MW-19H	10/25/2021 15:48	pH	6.12	SU
BY-AP-MW-19H	10/25/2021 15:48	Temperature	21.14	C
BY-AP-MW-19H	10/25/2021 15:48	Turbidity	1.49	NTU
BY-AP-MW-19H	10/25/2021 15:53	Conductivity	197.23	uS/cm
BY-AP-MW-19H	10/25/2021 15:53	DO	0.33	mg/L

**Alabama Power Company
Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-19H	10/25/2021 15:53	Depth to Water Detail	7.21	ft
BY-AP-MW-19H	10/25/2021 15:53	Oxidation Reduction Potention	-9.74	mv
BY-AP-MW-19H	10/25/2021 15:53	pH	6.13	SU
BY-AP-MW-19H	10/25/2021 15:53	Temperature	21.22	C
BY-AP-MW-19H	10/25/2021 15:53	Turbidity	1.74	NTU

**Alabama Power Company
Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-20H	10/26/2021 9:38	Conductivity	778.19	uS/cm
BY-AP-MW-20H	10/26/2021 9:38	DO	0.33	mg/L
BY-AP-MW-20H	10/26/2021 9:38	Depth to Water Detail	6.91	ft
BY-AP-MW-20H	10/26/2021 9:38	Oxidation Reduction Potention	-86.75	mv
BY-AP-MW-20H	10/26/2021 9:38	pH	6.49	SU
BY-AP-MW-20H	10/26/2021 9:38	Temperature	20.05	C
BY-AP-MW-20H	10/26/2021 9:38	Turbidity	2.05	NTU
BY-AP-MW-20H	10/26/2021 9:43	Conductivity	778.82	uS/cm
BY-AP-MW-20H	10/26/2021 9:43	DO	0.26	mg/L
BY-AP-MW-20H	10/26/2021 9:43	Depth to Water Detail	6.91	ft
BY-AP-MW-20H	10/26/2021 9:43	Oxidation Reduction Potention	-87.02	mv
BY-AP-MW-20H	10/26/2021 9:43	pH	6.48	SU
BY-AP-MW-20H	10/26/2021 9:43	Temperature	20.04	C
BY-AP-MW-20H	10/26/2021 9:43	Turbidity	2.34	NTU
BY-AP-MW-20H	10/26/2021 9:48	Conductivity	777.4	uS/cm
BY-AP-MW-20H	10/26/2021 9:48	DO	0.24	mg/L
BY-AP-MW-20H	10/26/2021 9:48	Depth to Water Detail	6.91	ft
BY-AP-MW-20H	10/26/2021 9:48	Oxidation Reduction Potention	-87.3	mv
BY-AP-MW-20H	10/26/2021 9:48	pH	6.49	SU
BY-AP-MW-20H	10/26/2021 9:48	Temperature	20.02	C
BY-AP-MW-20H	10/26/2021 9:48	Turbidity	1.7	NTU
BY-AP-MW-20H	10/26/2021 9:53	Conductivity	778.59	uS/cm
BY-AP-MW-20H	10/26/2021 9:53	DO	0.26	mg/L
BY-AP-MW-20H	10/26/2021 9:53	Depth to Water Detail	6.91	ft
BY-AP-MW-20H	10/26/2021 9:53	Oxidation Reduction Potention	-87	mv
BY-AP-MW-20H	10/26/2021 9:53	pH	6.49	SU
BY-AP-MW-20H	10/26/2021 9:53	Temperature	20.02	C
BY-AP-MW-20H	10/26/2021 9:53	Turbidity	1.6	NTU

**Alabama Power Company
Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-22H	10/26/2021 10:44	Conductivity	659.02	uS/cm
BY-AP-MW-22H	10/26/2021 10:44	DO	0.28	mg/L
BY-AP-MW-22H	10/26/2021 10:44	Depth to Water Detail	5.46	ft
BY-AP-MW-22H	10/26/2021 10:44	Oxidation Reduction Potention	-95.01	mv
BY-AP-MW-22H	10/26/2021 10:44	pH	6.81	SU
BY-AP-MW-22H	10/26/2021 10:44	Temperature	20.38	C
BY-AP-MW-22H	10/26/2021 10:44	Turbidity	3.36	NTU
BY-AP-MW-22H	10/26/2021 10:49	Conductivity	661.32	uS/cm
BY-AP-MW-22H	10/26/2021 10:49	DO	0.29	mg/L
BY-AP-MW-22H	10/26/2021 10:49	Depth to Water Detail	5.46	ft
BY-AP-MW-22H	10/26/2021 10:49	Oxidation Reduction Potention	-97.15	mv
BY-AP-MW-22H	10/26/2021 10:49	pH	6.82	SU
BY-AP-MW-22H	10/26/2021 10:49	Temperature	20.32	C
BY-AP-MW-22H	10/26/2021 10:49	Turbidity	2.3	NTU
BY-AP-MW-22H	10/26/2021 10:54	Conductivity	667.01	uS/cm
BY-AP-MW-22H	10/26/2021 10:54	DO	0.31	mg/L
BY-AP-MW-22H	10/26/2021 10:54	Depth to Water Detail	5.46	ft
BY-AP-MW-22H	10/26/2021 10:54	Oxidation Reduction Potention	-102.09	mv
BY-AP-MW-22H	10/26/2021 10:54	pH	6.86	SU
BY-AP-MW-22H	10/26/2021 10:54	Temperature	20.31	C
BY-AP-MW-22H	10/26/2021 10:54	Turbidity	2.09	NTU
BY-AP-MW-22H	10/26/2021 10:59	Conductivity	667.72	uS/cm
BY-AP-MW-22H	10/26/2021 10:59	DO	0.27	mg/L
BY-AP-MW-22H	10/26/2021 10:59	Depth to Water Detail	5.46	ft
BY-AP-MW-22H	10/26/2021 10:59	Oxidation Reduction Potention	-103.9	mv
BY-AP-MW-22H	10/26/2021 10:59	pH	6.86	SU
BY-AP-MW-22H	10/26/2021 10:59	Temperature	20.28	C
BY-AP-MW-22H	10/26/2021 10:59	Turbidity	1.97	NTU

**Alabama Power Company
Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-23H	10/26/2021 13:26	Conductivity	508.52	uS/cm
BY-AP-MW-23H	10/26/2021 13:26	DO	0.39	mg/L
BY-AP-MW-23H	10/26/2021 13:26	Depth to Water Detail	8.86	ft
BY-AP-MW-23H	10/26/2021 13:26	Oxidation Reduction Potention	-74.22	mv
BY-AP-MW-23H	10/26/2021 13:26	pH	6.74	SU
BY-AP-MW-23H	10/26/2021 13:26	Temperature	20.29	C
BY-AP-MW-23H	10/26/2021 13:26	Turbidity	2.3	NTU
BY-AP-MW-23H	10/26/2021 13:31	Conductivity	498	uS/cm
BY-AP-MW-23H	10/26/2021 13:31	DO	0.34	mg/L
BY-AP-MW-23H	10/26/2021 13:31	Depth to Water Detail	8.86	ft
BY-AP-MW-23H	10/26/2021 13:31	Oxidation Reduction Potention	-76.01	mv
BY-AP-MW-23H	10/26/2021 13:31	pH	6.66	SU
BY-AP-MW-23H	10/26/2021 13:31	Temperature	20.24	C
BY-AP-MW-23H	10/26/2021 13:31	Turbidity	1.83	NTU
BY-AP-MW-23H	10/26/2021 13:36	Conductivity	490.02	uS/cm
BY-AP-MW-23H	10/26/2021 13:36	DO	0.31	mg/L
BY-AP-MW-23H	10/26/2021 13:36	Depth to Water Detail	8.86	ft
BY-AP-MW-23H	10/26/2021 13:36	Oxidation Reduction Potention	-75.94	mv
BY-AP-MW-23H	10/26/2021 13:36	pH	6.59	SU
BY-AP-MW-23H	10/26/2021 13:36	Temperature	20.23	C
BY-AP-MW-23H	10/26/2021 13:36	Turbidity	1.82	NTU
BY-AP-MW-23H	10/26/2021 13:41	Conductivity	480.91	uS/cm
BY-AP-MW-23H	10/26/2021 13:41	DO	0.3	mg/L
BY-AP-MW-23H	10/26/2021 13:41	Depth to Water Detail	8.86	ft
BY-AP-MW-23H	10/26/2021 13:41	Oxidation Reduction Potention	-75.89	mv
BY-AP-MW-23H	10/26/2021 13:41	pH	6.54	SU
BY-AP-MW-23H	10/26/2021 13:41	Temperature	20.2	C
BY-AP-MW-23H	10/26/2021 13:41	Turbidity	1.78	NTU

**Alabama Power Company
Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-23V	10/26/2021 14:15	Conductivity	657.01	uS/cm
BY-AP-MW-23V	10/26/2021 14:15	DO	0.4	mg/L
BY-AP-MW-23V	10/26/2021 14:15	Depth to Water Detail	13.51	ft
BY-AP-MW-23V	10/26/2021 14:15	Oxidation Reduction Potention	-148.27	mv
BY-AP-MW-23V	10/26/2021 14:15	pH	8.08	SU
BY-AP-MW-23V	10/26/2021 14:15	Temperature	20.98	C
BY-AP-MW-23V	10/26/2021 14:15	Turbidity	2.67	NTU
BY-AP-MW-23V	10/26/2021 14:20	Conductivity	678.05	uS/cm
BY-AP-MW-23V	10/26/2021 14:20	DO	0.33	mg/L
BY-AP-MW-23V	10/26/2021 14:20	Depth to Water Detail	13.51	ft
BY-AP-MW-23V	10/26/2021 14:20	Oxidation Reduction Potention	-164.6	mv
BY-AP-MW-23V	10/26/2021 14:20	pH	8.23	SU
BY-AP-MW-23V	10/26/2021 14:20	Temperature	20.87	C
BY-AP-MW-23V	10/26/2021 14:20	Turbidity	2.62	NTU
BY-AP-MW-23V	10/26/2021 14:25	Conductivity	681.32	uS/cm
BY-AP-MW-23V	10/26/2021 14:25	DO	0.32	mg/L
BY-AP-MW-23V	10/26/2021 14:25	Depth to Water Detail	13.51	ft
BY-AP-MW-23V	10/26/2021 14:25	Oxidation Reduction Potention	-170.57	mv
BY-AP-MW-23V	10/26/2021 14:25	pH	8.29	SU
BY-AP-MW-23V	10/26/2021 14:25	Temperature	20.84	C
BY-AP-MW-23V	10/26/2021 14:25	Turbidity	2.72	NTU
BY-AP-MW-23V	10/26/2021 14:30	Conductivity	685.37	uS/cm
BY-AP-MW-23V	10/26/2021 14:30	DO	0.32	mg/L
BY-AP-MW-23V	10/26/2021 14:30	Depth to Water Detail	13.51	ft
BY-AP-MW-23V	10/26/2021 14:30	Oxidation Reduction Potention	-174	mv
BY-AP-MW-23V	10/26/2021 14:30	pH	8.31	SU
BY-AP-MW-23V	10/26/2021 14:30	Temperature	20.92	C
BY-AP-MW-23V	10/26/2021 14:30	Turbidity	2.74	NTU

**Alabama Power Company
Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-17H	10/25/2021 13:24	Conductivity	453.12	uS/cm
BY-AP-MW-17H	10/25/2021 13:24	DO	0.19	mg/L
BY-AP-MW-17H	10/25/2021 13:24	Depth to Water Detail	17.69	ft
BY-AP-MW-17H	10/25/2021 13:24	Oxidation Reduction Potention	-64.13	mv
BY-AP-MW-17H	10/25/2021 13:24	pH	6.36	SU
BY-AP-MW-17H	10/25/2021 13:24	Temperature	21.79	C
BY-AP-MW-17H	10/25/2021 13:24	Turbidity	28.1	NTU
BY-AP-MW-17H	10/25/2021 13:29	Conductivity	454.54	uS/cm
BY-AP-MW-17H	10/25/2021 13:29	DO	0.16	mg/L
BY-AP-MW-17H	10/25/2021 13:29	Depth to Water Detail	17.69	ft
BY-AP-MW-17H	10/25/2021 13:29	Oxidation Reduction Potention	-69.37	mv
BY-AP-MW-17H	10/25/2021 13:29	pH	6.45	SU
BY-AP-MW-17H	10/25/2021 13:29	Temperature	21.78	C
BY-AP-MW-17H	10/25/2021 13:29	Turbidity	10.11	NTU
BY-AP-MW-17H	10/25/2021 13:34	Conductivity	451.08	uS/cm
BY-AP-MW-17H	10/25/2021 13:34	DO	0.15	mg/L
BY-AP-MW-17H	10/25/2021 13:34	Depth to Water Detail	17.69	ft
BY-AP-MW-17H	10/25/2021 13:34	Oxidation Reduction Potention	-71.11	mv
BY-AP-MW-17H	10/25/2021 13:34	pH	6.47	SU
BY-AP-MW-17H	10/25/2021 13:34	Temperature	21.74	C
BY-AP-MW-17H	10/25/2021 13:34	Turbidity	6.48	NTU
BY-AP-MW-17H	10/25/2021 13:39	Conductivity	449.86	uS/cm
BY-AP-MW-17H	10/25/2021 13:39	DO	0.14	mg/L
BY-AP-MW-17H	10/25/2021 13:39	Depth to Water Detail	17.69	ft
BY-AP-MW-17H	10/25/2021 13:39	Oxidation Reduction Potention	-72.67	mv
BY-AP-MW-17H	10/25/2021 13:39	pH	6.48	SU
BY-AP-MW-17H	10/25/2021 13:39	Temperature	21.82	C
BY-AP-MW-17H	10/25/2021 13:39	Turbidity	5.61	NTU

**Alabama Power Company
Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-17V	10/25/2021 14:37	Conductivity	631.28	uS/cm
BY-AP-MW-17V	10/25/2021 14:37	DO	0.74	mg/L
BY-AP-MW-17V	10/25/2021 14:37	Depth to Water Detail	18.21	ft
BY-AP-MW-17V	10/25/2021 14:37	Oxidation Reduction Potention	-44.93	mv
BY-AP-MW-17V	10/25/2021 14:37	pH	6.53	SU
BY-AP-MW-17V	10/25/2021 14:37	Temperature	22.36	C
BY-AP-MW-17V	10/25/2021 14:37	Turbidity	3.87	NTU
BY-AP-MW-17V	10/25/2021 14:42	Conductivity	567.51	uS/cm
BY-AP-MW-17V	10/25/2021 14:42	DO	0.75	mg/L
BY-AP-MW-17V	10/25/2021 14:42	Depth to Water Detail	18.21	ft
BY-AP-MW-17V	10/25/2021 14:42	Oxidation Reduction Potention	-41.27	mv
BY-AP-MW-17V	10/25/2021 14:42	pH	6.51	SU
BY-AP-MW-17V	10/25/2021 14:42	Temperature	22.3	C
BY-AP-MW-17V	10/25/2021 14:42	Turbidity	2.06	NTU
BY-AP-MW-17V	10/25/2021 14:47	Conductivity	553.36	uS/cm
BY-AP-MW-17V	10/25/2021 14:47	DO	0.65	mg/L
BY-AP-MW-17V	10/25/2021 14:47	Depth to Water Detail	18.21	ft
BY-AP-MW-17V	10/25/2021 14:47	Oxidation Reduction Potention	-38.58	mv
BY-AP-MW-17V	10/25/2021 14:47	pH	6.51	SU
BY-AP-MW-17V	10/25/2021 14:47	Temperature	22.37	C
BY-AP-MW-17V	10/25/2021 14:47	Turbidity	2.01	NTU
BY-AP-MW-17V	10/25/2021 14:52	Conductivity	549.65	uS/cm
BY-AP-MW-17V	10/25/2021 14:52	DO	0.79	mg/L
BY-AP-MW-17V	10/25/2021 14:52	Depth to Water Detail	18.21	ft
BY-AP-MW-17V	10/25/2021 14:52	Oxidation Reduction Potention	-36.5	mv
BY-AP-MW-17V	10/25/2021 14:52	pH	6.53	SU
BY-AP-MW-17V	10/25/2021 14:52	Temperature	22.37	C
BY-AP-MW-17V	10/25/2021 14:52	Turbidity	1.98	NTU

**Alabama Power Company
Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-8	10/26/2021 8:55	Conductivity	502.34	uS/cm
BY-AP-MW-8	10/26/2021 8:55	DO	0.12	mg/L
BY-AP-MW-8	10/26/2021 8:55	Depth to Water Detail	22.61	ft
BY-AP-MW-8	10/26/2021 8:55	Oxidation Reduction Potention	-48.18	mv
BY-AP-MW-8	10/26/2021 8:55	pH	6.26	SU
BY-AP-MW-8	10/26/2021 8:55	Temperature	20.23	C
BY-AP-MW-8	10/26/2021 8:55	Turbidity	1.17	NTU
BY-AP-MW-8	10/26/2021 9:00	Conductivity	498.72	uS/cm
BY-AP-MW-8	10/26/2021 9:00	DO	0.1	mg/L
BY-AP-MW-8	10/26/2021 9:00	Depth to Water Detail	22.61	ft
BY-AP-MW-8	10/26/2021 9:00	Oxidation Reduction Potention	-49.56	mv
BY-AP-MW-8	10/26/2021 9:00	pH	6.27	SU
BY-AP-MW-8	10/26/2021 9:00	Temperature	20.21	C
BY-AP-MW-8	10/26/2021 9:00	Turbidity	1.78	NTU
BY-AP-MW-8	10/26/2021 9:05	Conductivity	497.97	uS/cm
BY-AP-MW-8	10/26/2021 9:05	DO	0.1	mg/L
BY-AP-MW-8	10/26/2021 9:05	Depth to Water Detail	22.61	ft
BY-AP-MW-8	10/26/2021 9:05	Oxidation Reduction Potention	-46.49	mv
BY-AP-MW-8	10/26/2021 9:05	pH	6.19	SU
BY-AP-MW-8	10/26/2021 9:05	Temperature	20.21	C
BY-AP-MW-8	10/26/2021 9:05	Turbidity	2	NTU
BY-AP-MW-8	10/26/2021 9:10	Conductivity	493.83	uS/cm
BY-AP-MW-8	10/26/2021 9:10	DO	0.1	mg/L
BY-AP-MW-8	10/26/2021 9:10	Depth to Water Detail	22.61	ft
BY-AP-MW-8	10/26/2021 9:10	Oxidation Reduction Potention	-47.76	mv
BY-AP-MW-8	10/26/2021 9:10	pH	6.19	SU
BY-AP-MW-8	10/26/2021 9:10	Temperature	20.19	C
BY-AP-MW-8	10/26/2021 9:10	Turbidity	2.85	NTU
BY-AP-MW-8	10/26/2021 9:15	Conductivity	493.04	uS/cm
BY-AP-MW-8	10/26/2021 9:15	DO	0.1	mg/L
BY-AP-MW-8	10/26/2021 9:15	Depth to Water Detail	22.61	ft
BY-AP-MW-8	10/26/2021 9:15	Oxidation Reduction Potention	-51.98	mv
BY-AP-MW-8	10/26/2021 9:15	pH	6.26	SU
BY-AP-MW-8	10/26/2021 9:15	Temperature	20.2	C
BY-AP-MW-8	10/26/2021 9:15	Turbidity	1.55	NTU

**Alabama Power Company
Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-8V	10/26/2021 9:55	Conductivity	552.43	uS/cm
BY-AP-MW-8V	10/26/2021 9:55	DO	0.13	mg/L
BY-AP-MW-8V	10/26/2021 9:55	Depth to Water Detail	22.78	ft
BY-AP-MW-8V	10/26/2021 9:55	Oxidation Reduction Potention	-44.98	mv
BY-AP-MW-8V	10/26/2021 9:55	pH	6.35	SU
BY-AP-MW-8V	10/26/2021 9:55	Temperature	20.57	C
BY-AP-MW-8V	10/26/2021 9:55	Turbidity	3.85	NTU
BY-AP-MW-8V	10/26/2021 10:00	Conductivity	550.08	uS/cm
BY-AP-MW-8V	10/26/2021 10:00	DO	0.12	mg/L
BY-AP-MW-8V	10/26/2021 10:00	Depth to Water Detail	22.78	ft
BY-AP-MW-8V	10/26/2021 10:00	Oxidation Reduction Potention	-44.46	mv
BY-AP-MW-8V	10/26/2021 10:00	pH	6.35	SU
BY-AP-MW-8V	10/26/2021 10:00	Temperature	20.53	C
BY-AP-MW-8V	10/26/2021 10:00	Turbidity	1.72	NTU
BY-AP-MW-8V	10/26/2021 10:05	Conductivity	548.83	uS/cm
BY-AP-MW-8V	10/26/2021 10:05	DO	0.13	mg/L
BY-AP-MW-8V	10/26/2021 10:05	Depth to Water Detail	22.78	ft
BY-AP-MW-8V	10/26/2021 10:05	Oxidation Reduction Potention	-40.35	mv
BY-AP-MW-8V	10/26/2021 10:05	pH	6.27	SU
BY-AP-MW-8V	10/26/2021 10:05	Temperature	20.54	C
BY-AP-MW-8V	10/26/2021 10:05	Turbidity	1.45	NTU
BY-AP-MW-8V	10/26/2021 10:10	Conductivity	551.01	uS/cm
BY-AP-MW-8V	10/26/2021 10:10	DO	0.13	mg/L
BY-AP-MW-8V	10/26/2021 10:10	Depth to Water Detail	22.78	ft
BY-AP-MW-8V	10/26/2021 10:10	Oxidation Reduction Potention	-38.6	mv
BY-AP-MW-8V	10/26/2021 10:10	pH	6.26	SU
BY-AP-MW-8V	10/26/2021 10:10	Temperature	20.51	C
BY-AP-MW-8V	10/26/2021 10:10	Turbidity	1.46	NTU

**Alabama Power Company
Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-16V	10/26/2021 11:15	Conductivity	341.57	uS/cm
BY-AP-MW-16V	10/26/2021 11:15	DO	0.12	mg/L
BY-AP-MW-16V	10/26/2021 11:15	Depth to Water Detail	20.4	ft
BY-AP-MW-16V	10/26/2021 11:15	Oxidation Reduction Potention	76.1	mv
BY-AP-MW-16V	10/26/2021 11:15	pH	5.08	SU
BY-AP-MW-16V	10/26/2021 11:15	Temperature	22.02	C
BY-AP-MW-16V	10/26/2021 11:15	Turbidity	3.12	NTU
BY-AP-MW-16V	10/26/2021 11:20	Conductivity	342.13	uS/cm
BY-AP-MW-16V	10/26/2021 11:20	DO	0.13	mg/L
BY-AP-MW-16V	10/26/2021 11:20	Depth to Water Detail	20.41	ft
BY-AP-MW-16V	10/26/2021 11:20	Oxidation Reduction Potention	72.26	mv
BY-AP-MW-16V	10/26/2021 11:20	pH	5.18	SU
BY-AP-MW-16V	10/26/2021 11:20	Temperature	22.03	C
BY-AP-MW-16V	10/26/2021 11:20	Turbidity	1.31	NTU
BY-AP-MW-16V	10/26/2021 11:25	Conductivity	342.14	uS/cm
BY-AP-MW-16V	10/26/2021 11:25	DO	0.14	mg/L
BY-AP-MW-16V	10/26/2021 11:25	Depth to Water Detail	20.41	ft
BY-AP-MW-16V	10/26/2021 11:25	Oxidation Reduction Potention	69.48	mv
BY-AP-MW-16V	10/26/2021 11:25	pH	5.24	SU
BY-AP-MW-16V	10/26/2021 11:25	Temperature	22.03	C
BY-AP-MW-16V	10/26/2021 11:25	Turbidity	0.75	NTU
BY-AP-MW-16V	10/26/2021 11:30	Conductivity	342.37	uS/cm
BY-AP-MW-16V	10/26/2021 11:30	DO	0.14	mg/L
BY-AP-MW-16V	10/26/2021 11:30	Depth to Water Detail	20.41	ft
BY-AP-MW-16V	10/26/2021 11:30	Oxidation Reduction Potention	68.01	mv
BY-AP-MW-16V	10/26/2021 11:30	pH	5.26	SU
BY-AP-MW-16V	10/26/2021 11:30	Temperature	22.05	C
BY-AP-MW-16V	10/26/2021 11:30	Turbidity	0.7	NTU

**Alabama Power Company
Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-24H	10/26/2021 12:29	Conductivity	760.32	uS/cm
BY-AP-MW-24H	10/26/2021 12:29	DO	0.09	mg/L
BY-AP-MW-24H	10/26/2021 12:29	Depth to Water Detail	23.63	ft
BY-AP-MW-24H	10/26/2021 12:29	Oxidation Reduction Potention	-27.5	mv
BY-AP-MW-24H	10/26/2021 12:29	pH	6.1	SU
BY-AP-MW-24H	10/26/2021 12:29	Temperature	21.62	C
BY-AP-MW-24H	10/26/2021 12:29	Turbidity	3.21	NTU
BY-AP-MW-24H	10/26/2021 12:34	Conductivity	762.55	uS/cm
BY-AP-MW-24H	10/26/2021 12:34	DO	0.09	mg/L
BY-AP-MW-24H	10/26/2021 12:34	Depth to Water Detail	23.63	ft
BY-AP-MW-24H	10/26/2021 12:34	Oxidation Reduction Potention	-35.06	mv
BY-AP-MW-24H	10/26/2021 12:34	pH	6.14	SU
BY-AP-MW-24H	10/26/2021 12:34	Temperature	21.66	C
BY-AP-MW-24H	10/26/2021 12:34	Turbidity	1.68	NTU
BY-AP-MW-24H	10/26/2021 12:39	Conductivity	761.56	uS/cm
BY-AP-MW-24H	10/26/2021 12:39	DO	0.09	mg/L
BY-AP-MW-24H	10/26/2021 12:39	Depth to Water Detail	23.69	ft
BY-AP-MW-24H	10/26/2021 12:39	Oxidation Reduction Potention	-39.53	mv
BY-AP-MW-24H	10/26/2021 12:39	pH	6.17	SU
BY-AP-MW-24H	10/26/2021 12:39	Temperature	21.68	C
BY-AP-MW-24H	10/26/2021 12:39	Turbidity	2.14	NTU
BY-AP-MW-24H	10/26/2021 12:44	Conductivity	762.38	uS/cm
BY-AP-MW-24H	10/26/2021 12:44	DO	0.09	mg/L
BY-AP-MW-24H	10/26/2021 12:44	Depth to Water Detail	23.69	ft
BY-AP-MW-24H	10/26/2021 12:44	Oxidation Reduction Potention	-42.3	mv
BY-AP-MW-24H	10/26/2021 12:44	pH	6.2	SU
BY-AP-MW-24H	10/26/2021 12:44	Temperature	21.65	C
BY-AP-MW-24H	10/26/2021 12:44	Turbidity	1.62	NTU

**Alabama Power Company
Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-15	10/26/2021 13:29	Conductivity	597.92	uS/cm
BY-AP-MW-15	10/26/2021 13:29	DO	0.11	mg/L
BY-AP-MW-15	10/26/2021 13:29	Depth to Water Detail	21.46	ft
BY-AP-MW-15	10/26/2021 13:29	Oxidation Reduction Potention	-90.74	mv
BY-AP-MW-15	10/26/2021 13:29	pH	6.7	SU
BY-AP-MW-15	10/26/2021 13:29	Temperature	21.8	C
BY-AP-MW-15	10/26/2021 13:29	Turbidity	5.19	NTU
BY-AP-MW-15	10/26/2021 13:34	Conductivity	567.67	uS/cm
BY-AP-MW-15	10/26/2021 13:34	DO	0.09	mg/L
BY-AP-MW-15	10/26/2021 13:34	Depth to Water Detail	21.46	ft
BY-AP-MW-15	10/26/2021 13:34	Oxidation Reduction Potention	-97.36	mv
BY-AP-MW-15	10/26/2021 13:34	pH	6.68	SU
BY-AP-MW-15	10/26/2021 13:34	Temperature	21.68	C
BY-AP-MW-15	10/26/2021 13:34	Turbidity	1.96	NTU
BY-AP-MW-15	10/26/2021 13:39	Conductivity	560.93	uS/cm
BY-AP-MW-15	10/26/2021 13:39	DO	0.08	mg/L
BY-AP-MW-15	10/26/2021 13:39	Depth to Water Detail	21.46	ft
BY-AP-MW-15	10/26/2021 13:39	Oxidation Reduction Potention	-100.68	mv
BY-AP-MW-15	10/26/2021 13:39	pH	6.69	SU
BY-AP-MW-15	10/26/2021 13:39	Temperature	21.65	C
BY-AP-MW-15	10/26/2021 13:39	Turbidity	2.55	NTU
BY-AP-MW-15	10/26/2021 13:44	Conductivity	559.04	uS/cm
BY-AP-MW-15	10/26/2021 13:44	DO	0.08	mg/L
BY-AP-MW-15	10/26/2021 13:44	Depth to Water Detail	21.46	ft
BY-AP-MW-15	10/26/2021 13:44	Oxidation Reduction Potention	-104.23	mv
BY-AP-MW-15	10/26/2021 13:44	pH	6.7	SU
BY-AP-MW-15	10/26/2021 13:44	Temperature	21.66	C
BY-AP-MW-15	10/26/2021 13:44	Turbidity	1.69	NTU

**Alabama Power Company
Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-14V	10/26/2021 14:41	Conductivity	962.91	uS/cm
BY-AP-MW-14V	10/26/2021 14:41	DO	0.13	mg/L
BY-AP-MW-14V	10/26/2021 14:41	Depth to Water Detail	22.86	ft
BY-AP-MW-14V	10/26/2021 14:41	Oxidation Reduction Potention	-106.32	mv
BY-AP-MW-14V	10/26/2021 14:41	pH	7.15	SU
BY-AP-MW-14V	10/26/2021 14:41	Temperature	21.53	C
BY-AP-MW-14V	10/26/2021 14:41	Turbidity	4.76	NTU
BY-AP-MW-14V	10/26/2021 14:46	Conductivity	917.7	uS/cm
BY-AP-MW-14V	10/26/2021 14:46	DO	0.14	mg/L
BY-AP-MW-14V	10/26/2021 14:46	Depth to Water Detail	22.86	ft
BY-AP-MW-14V	10/26/2021 14:46	Oxidation Reduction Potention	-101.85	mv
BY-AP-MW-14V	10/26/2021 14:46	pH	6.93	SU
BY-AP-MW-14V	10/26/2021 14:46	Temperature	21.49	C
BY-AP-MW-14V	10/26/2021 14:46	Turbidity	2.21	NTU
BY-AP-MW-14V	10/26/2021 14:51	Conductivity	908.68	uS/cm
BY-AP-MW-14V	10/26/2021 14:51	DO	0.14	mg/L
BY-AP-MW-14V	10/26/2021 14:51	Depth to Water Detail	22.86	ft
BY-AP-MW-14V	10/26/2021 14:51	Oxidation Reduction Potention	-104.33	mv
BY-AP-MW-14V	10/26/2021 14:51	pH	6.92	SU
BY-AP-MW-14V	10/26/2021 14:51	Temperature	21.38	C
BY-AP-MW-14V	10/26/2021 14:51	Turbidity	1.6	NTU
BY-AP-MW-14V	10/26/2021 14:56	Conductivity	904.39	uS/cm
BY-AP-MW-14V	10/26/2021 14:56	DO	0.15	mg/L
BY-AP-MW-14V	10/26/2021 14:56	Depth to Water Detail	22.86	ft
BY-AP-MW-14V	10/26/2021 14:56	Oxidation Reduction Potention	-107.14	mv
BY-AP-MW-14V	10/26/2021 14:56	pH	6.91	SU
BY-AP-MW-14V	10/26/2021 14:56	Temperature	21.29	C
BY-AP-MW-14V	10/26/2021 14:56	Turbidity	1.74	NTU

**Alabama Power Company
Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-13	10/26/2021 15:33	Conductivity	431.51	uS/cm
BY-AP-MW-13	10/26/2021 15:33	DO	0.14	mg/L
BY-AP-MW-13	10/26/2021 15:33	Depth to Water Detail	22.43	ft
BY-AP-MW-13	10/26/2021 15:33	Oxidation Reduction Potention	-5.13	mv
BY-AP-MW-13	10/26/2021 15:33	pH	5.58	SU
BY-AP-MW-13	10/26/2021 15:33	Temperature	20.95	C
BY-AP-MW-13	10/26/2021 15:33	Turbidity	3.72	NTU
BY-AP-MW-13	10/26/2021 15:38	Conductivity	428.78	uS/cm
BY-AP-MW-13	10/26/2021 15:38	DO	0.12	mg/L
BY-AP-MW-13	10/26/2021 15:38	Depth to Water Detail	22.43	ft
BY-AP-MW-13	10/26/2021 15:38	Oxidation Reduction Potention	-5.71	mv
BY-AP-MW-13	10/26/2021 15:38	pH	5.59	SU
BY-AP-MW-13	10/26/2021 15:38	Temperature	20.94	C
BY-AP-MW-13	10/26/2021 15:38	Turbidity	2.43	NTU
BY-AP-MW-13	10/26/2021 15:43	Conductivity	427.19	uS/cm
BY-AP-MW-13	10/26/2021 15:43	DO	0.12	mg/L
BY-AP-MW-13	10/26/2021 15:43	Depth to Water Detail	22.43	ft
BY-AP-MW-13	10/26/2021 15:43	Oxidation Reduction Potention	-7.03	mv
BY-AP-MW-13	10/26/2021 15:43	pH	5.64	SU
BY-AP-MW-13	10/26/2021 15:43	Temperature	20.87	C
BY-AP-MW-13	10/26/2021 15:43	Turbidity	4.01	NTU
BY-AP-MW-13	10/26/2021 15:48	Conductivity	426.66	uS/cm
BY-AP-MW-13	10/26/2021 15:48	DO	0.13	mg/L
BY-AP-MW-13	10/26/2021 15:48	Depth to Water Detail	22.43	ft
BY-AP-MW-13	10/26/2021 15:48	Oxidation Reduction Potention	-8.07	mv
BY-AP-MW-13	10/26/2021 15:48	pH	5.69	SU
BY-AP-MW-13	10/26/2021 15:48	Temperature	20.78	C
BY-AP-MW-13	10/26/2021 15:48	Turbidity	2.09	NTU

**Alabama Power Company
Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-9	10/27/2021 9:03	Conductivity	532.52	uS/cm
BY-AP-MW-9	10/27/2021 9:03	DO	0.13	mg/L
BY-AP-MW-9	10/27/2021 9:03	Depth to Water Detail	21.95	ft
BY-AP-MW-9	10/27/2021 9:03	Oxidation Reduction Potention	6.17	mv
BY-AP-MW-9	10/27/2021 9:03	pH	6.21	SU
BY-AP-MW-9	10/27/2021 9:03	Temperature	21.18	C
BY-AP-MW-9	10/27/2021 9:03	Turbidity	3.4	NTU
BY-AP-MW-9	10/27/2021 9:08	Conductivity	527.23	uS/cm
BY-AP-MW-9	10/27/2021 9:08	DO	0.11	mg/L
BY-AP-MW-9	10/27/2021 9:08	Depth to Water Detail	21.95	ft
BY-AP-MW-9	10/27/2021 9:08	Oxidation Reduction Potention	2.76	mv
BY-AP-MW-9	10/27/2021 9:08	pH	6	SU
BY-AP-MW-9	10/27/2021 9:08	Temperature	21.25	C
BY-AP-MW-9	10/27/2021 9:08	Turbidity	2.68	NTU
BY-AP-MW-9	10/27/2021 9:13	Conductivity	523.19	uS/cm
BY-AP-MW-9	10/27/2021 9:13	DO	0.11	mg/L
BY-AP-MW-9	10/27/2021 9:13	Depth to Water Detail	21.95	ft
BY-AP-MW-9	10/27/2021 9:13	Oxidation Reduction Potention	-13.18	mv
BY-AP-MW-9	10/27/2021 9:13	pH	6.14	SU
BY-AP-MW-9	10/27/2021 9:13	Temperature	21.22	C
BY-AP-MW-9	10/27/2021 9:13	Turbidity	2.12	NTU
BY-AP-MW-9	10/27/2021 9:18	Conductivity	520.24	uS/cm
BY-AP-MW-9	10/27/2021 9:18	DO	0.1	mg/L
BY-AP-MW-9	10/27/2021 9:18	Depth to Water Detail	21.95	ft
BY-AP-MW-9	10/27/2021 9:18	Oxidation Reduction Potention	-18.22	mv
BY-AP-MW-9	10/27/2021 9:18	pH	6.13	SU
BY-AP-MW-9	10/27/2021 9:18	Temperature	21.24	C
BY-AP-MW-9	10/27/2021 9:18	Turbidity	2.28	NTU

**Alabama Power Company
Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-10V	10/27/2021 10:02	Conductivity	654.49	uS/cm
BY-AP-MW-10V	10/27/2021 10:02	DO	0.16	mg/L
BY-AP-MW-10V	10/27/2021 10:02	Depth to Water Detail	23.15	ft
BY-AP-MW-10V	10/27/2021 10:02	Oxidation Reduction Potention	0.11	mv
BY-AP-MW-10V	10/27/2021 10:02	pH	5.74	SU
BY-AP-MW-10V	10/27/2021 10:02	Temperature	21.32	C
BY-AP-MW-10V	10/27/2021 10:02	Turbidity	2.57	NTU
BY-AP-MW-10V	10/27/2021 10:07	Conductivity	647.1	uS/cm
BY-AP-MW-10V	10/27/2021 10:07	DO	0.16	mg/L
BY-AP-MW-10V	10/27/2021 10:07	Depth to Water Detail	23.15	ft
BY-AP-MW-10V	10/27/2021 10:07	Oxidation Reduction Potention	-16.23	mv
BY-AP-MW-10V	10/27/2021 10:07	pH	5.9	SU
BY-AP-MW-10V	10/27/2021 10:07	Temperature	21.4	C
BY-AP-MW-10V	10/27/2021 10:07	Turbidity	3.93	NTU
BY-AP-MW-10V	10/27/2021 10:12	Conductivity	645.61	uS/cm
BY-AP-MW-10V	10/27/2021 10:12	DO	0.15	mg/L
BY-AP-MW-10V	10/27/2021 10:12	Depth to Water Detail	23.15	ft
BY-AP-MW-10V	10/27/2021 10:12	Oxidation Reduction Potention	-17.69	mv
BY-AP-MW-10V	10/27/2021 10:12	pH	5.86	SU
BY-AP-MW-10V	10/27/2021 10:12	Temperature	21.3	C
BY-AP-MW-10V	10/27/2021 10:12	Turbidity	1.36	NTU
BY-AP-MW-10V	10/27/2021 10:17	Conductivity	645.19	uS/cm
BY-AP-MW-10V	10/27/2021 10:17	DO	0.15	mg/L
BY-AP-MW-10V	10/27/2021 10:17	Depth to Water Detail	23.15	ft
BY-AP-MW-10V	10/27/2021 10:17	Oxidation Reduction Potention	-32.35	mv
BY-AP-MW-10V	10/27/2021 10:17	pH	6.07	SU
BY-AP-MW-10V	10/27/2021 10:17	Temperature	21.34	C
BY-AP-MW-10V	10/27/2021 10:17	Turbidity	2.93	NTU
BY-AP-MW-10V	10/27/2021 10:22	Conductivity	643.53	uS/cm
BY-AP-MW-10V	10/27/2021 10:22	DO	0.15	mg/L
BY-AP-MW-10V	10/27/2021 10:22	Depth to Water Detail	23.15	ft
BY-AP-MW-10V	10/27/2021 10:22	Oxidation Reduction Potention	-37.34	mv
BY-AP-MW-10V	10/27/2021 10:22	pH	6.1	SU
BY-AP-MW-10V	10/27/2021 10:22	Temperature	21.3	C
BY-AP-MW-10V	10/27/2021 10:22	Turbidity	2.23	NTU
BY-AP-MW-10V	10/27/2021 10:27	Conductivity	643.21	uS/cm
BY-AP-MW-10V	10/27/2021 10:27	DO	0.15	mg/L
BY-AP-MW-10V	10/27/2021 10:27	Depth to Water Detail	23.15	ft
BY-AP-MW-10V	10/27/2021 10:27	Oxidation Reduction Potention	-39.08	mv
BY-AP-MW-10V	10/27/2021 10:27	pH	6.1	SU
BY-AP-MW-10V	10/27/2021 10:27	Temperature	21.38	C
BY-AP-MW-10V	10/27/2021 10:27	Turbidity	2.28	NTU

**Alabama Power Company
Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-10	10/27/2021 11:44	Conductivity	607.59	uS/cm
BY-AP-MW-10	10/27/2021 11:44	DO	0.16	mg/L
BY-AP-MW-10	10/27/2021 11:44	Depth to Water Detail	22.05	ft
BY-AP-MW-10	10/27/2021 11:44	Oxidation Reduction Potention	-43.37	mv
BY-AP-MW-10	10/27/2021 11:44	pH	5.82	SU
BY-AP-MW-10	10/27/2021 11:44	Temperature	21.35	C
BY-AP-MW-10	10/27/2021 11:44	Turbidity	5.2	NTU
BY-AP-MW-10	10/27/2021 11:49	Conductivity	604.13	uS/cm
BY-AP-MW-10	10/27/2021 11:49	DO	0.14	mg/L
BY-AP-MW-10	10/27/2021 11:49	Depth to Water Detail	22.05	ft
BY-AP-MW-10	10/27/2021 11:49	Oxidation Reduction Potention	-45.3	mv
BY-AP-MW-10	10/27/2021 11:49	pH	5.83	SU
BY-AP-MW-10	10/27/2021 11:49	Temperature	21.41	C
BY-AP-MW-10	10/27/2021 11:49	Turbidity	2.14	NTU
BY-AP-MW-10	10/27/2021 11:54	Conductivity	601.89	uS/cm
BY-AP-MW-10	10/27/2021 11:54	DO	0.14	mg/L
BY-AP-MW-10	10/27/2021 11:54	Depth to Water Detail	22.05	ft
BY-AP-MW-10	10/27/2021 11:54	Oxidation Reduction Potention	-47.22	mv
BY-AP-MW-10	10/27/2021 11:54	pH	5.87	SU
BY-AP-MW-10	10/27/2021 11:54	Temperature	21.42	C
BY-AP-MW-10	10/27/2021 11:54	Turbidity	1.98	NTU
BY-AP-MW-10	10/27/2021 11:59	Conductivity	599.63	uS/cm
BY-AP-MW-10	10/27/2021 11:59	DO	0.14	mg/L
BY-AP-MW-10	10/27/2021 11:59	Depth to Water Detail	22.05	ft
BY-AP-MW-10	10/27/2021 11:59	Oxidation Reduction Potention	-48.85	mv
BY-AP-MW-10	10/27/2021 11:59	pH	5.91	SU
BY-AP-MW-10	10/27/2021 11:59	Temperature	21.4	C
BY-AP-MW-10	10/27/2021 11:59	Turbidity	1.64	NTU

**Alabama Power Company
Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-12V	11/1/2021 13:27	Conductivity	667.33	uS/cm
BY-AP-MW-12V	11/1/2021 13:27	DO	0.13	mg/L
BY-AP-MW-12V	11/1/2021 13:27	Depth to Water Detail	21.74	ft
BY-AP-MW-12V	11/1/2021 13:27	Oxidation Reduction Potention	100.67	mv
BY-AP-MW-12V	11/1/2021 13:27	pH	6.09	SU
BY-AP-MW-12V	11/1/2021 13:27	Temperature	21.07	C
BY-AP-MW-12V	11/1/2021 13:27	Turbidity	2.76	NTU
BY-AP-MW-12V	11/1/2021 13:32	Conductivity	660.59	uS/cm
BY-AP-MW-12V	11/1/2021 13:32	DO	0.12	mg/L
BY-AP-MW-12V	11/1/2021 13:32	Depth to Water Detail	21.74	ft
BY-AP-MW-12V	11/1/2021 13:32	Oxidation Reduction Potention	85.89	mv
BY-AP-MW-12V	11/1/2021 13:32	pH	6.11	SU
BY-AP-MW-12V	11/1/2021 13:32	Temperature	21.05	C
BY-AP-MW-12V	11/1/2021 13:32	Turbidity	3.28	NTU
BY-AP-MW-12V	11/1/2021 13:37	Conductivity	655.84	uS/cm
BY-AP-MW-12V	11/1/2021 13:37	DO	0.12	mg/L
BY-AP-MW-12V	11/1/2021 13:37	Depth to Water Detail	21.74	ft
BY-AP-MW-12V	11/1/2021 13:37	Oxidation Reduction Potention	81.88	mv
BY-AP-MW-12V	11/1/2021 13:37	pH	6	SU
BY-AP-MW-12V	11/1/2021 13:37	Temperature	21	C
BY-AP-MW-12V	11/1/2021 13:37	Turbidity	3.23	NTU
BY-AP-MW-12V	11/1/2021 13:42	Conductivity	652.92	uS/cm
BY-AP-MW-12V	11/1/2021 13:42	DO	0.12	mg/L
BY-AP-MW-12V	11/1/2021 13:42	Depth to Water Detail	21.74	ft
BY-AP-MW-12V	11/1/2021 13:42	Oxidation Reduction Potention	68.9	mv
BY-AP-MW-12V	11/1/2021 13:42	pH	6.09	SU
BY-AP-MW-12V	11/1/2021 13:42	Temperature	20.89	C
BY-AP-MW-12V	11/1/2021 13:42	Turbidity	1.45	NTU

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Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-12	11/1/2021 14:12	Conductivity	607.84	uS/cm
BY-AP-MW-12	11/1/2021 14:12	DO	0.16	mg/L
BY-AP-MW-12	11/1/2021 14:12	Depth to Water Detail	22.15	ft
BY-AP-MW-12	11/1/2021 14:12	Oxidation Reduction Potention	86.29	mv
BY-AP-MW-12	11/1/2021 14:12	pH	5.4	SU
BY-AP-MW-12	11/1/2021 14:12	Temperature	20.97	C
BY-AP-MW-12	11/1/2021 14:12	Turbidity	4.66	NTU
BY-AP-MW-12	11/1/2021 14:17	Conductivity	604.41	uS/cm
BY-AP-MW-12	11/1/2021 14:17	DO	0.14	mg/L
BY-AP-MW-12	11/1/2021 14:17	Depth to Water Detail	22.15	ft
BY-AP-MW-12	11/1/2021 14:17	Oxidation Reduction Potention	74.28	mv
BY-AP-MW-12	11/1/2021 14:17	pH	5.58	SU
BY-AP-MW-12	11/1/2021 14:17	Temperature	21.01	C
BY-AP-MW-12	11/1/2021 14:17	Turbidity	8.61	NTU
BY-AP-MW-12	11/1/2021 14:22	Conductivity	602.12	uS/cm
BY-AP-MW-12	11/1/2021 14:22	DO	0.14	mg/L
BY-AP-MW-12	11/1/2021 14:22	Depth to Water Detail	22.15	ft
BY-AP-MW-12	11/1/2021 14:22	Oxidation Reduction Potention	64.33	mv
BY-AP-MW-12	11/1/2021 14:22	pH	5.72	SU
BY-AP-MW-12	11/1/2021 14:22	Temperature	21.07	C
BY-AP-MW-12	11/1/2021 14:22	Turbidity	7.49	NTU
BY-AP-MW-12	11/1/2021 14:27	Conductivity	600.77	uS/cm
BY-AP-MW-12	11/1/2021 14:27	DO	0.15	mg/L
BY-AP-MW-12	11/1/2021 14:27	Depth to Water Detail	22.15	ft
BY-AP-MW-12	11/1/2021 14:27	Oxidation Reduction Potention	61.11	mv
BY-AP-MW-12	11/1/2021 14:27	pH	5.75	SU
BY-AP-MW-12	11/1/2021 14:27	Temperature	21.05	C
BY-AP-MW-12	11/1/2021 14:27	Turbidity	4.52	NTU

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Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-20V	11/1/2021 15:00	Conductivity	567.14	uS/cm
BY-AP-MW-20V	11/1/2021 15:00	DO	0.2	mg/L
BY-AP-MW-20V	11/1/2021 15:00	Depth to Water Detail	23.24	ft
BY-AP-MW-20V	11/1/2021 15:00	Oxidation Reduction Potention	59.5	mv
BY-AP-MW-20V	11/1/2021 15:00	pH	5.89	SU
BY-AP-MW-20V	11/1/2021 15:00	Temperature	20.78	C
BY-AP-MW-20V	11/1/2021 15:00	Turbidity	2.98	NTU
BY-AP-MW-20V	11/1/2021 15:05	Conductivity	563.55	uS/cm
BY-AP-MW-20V	11/1/2021 15:05	DO	0.17	mg/L
BY-AP-MW-20V	11/1/2021 15:05	Depth to Water Detail	23.24	ft
BY-AP-MW-20V	11/1/2021 15:05	Oxidation Reduction Potention	51.92	mv
BY-AP-MW-20V	11/1/2021 15:05	pH	5.94	SU
BY-AP-MW-20V	11/1/2021 15:05	Temperature	20.73	C
BY-AP-MW-20V	11/1/2021 15:05	Turbidity	3.5	NTU
BY-AP-MW-20V	11/1/2021 15:10	Conductivity	562.21	uS/cm
BY-AP-MW-20V	11/1/2021 15:10	DO	0.16	mg/L
BY-AP-MW-20V	11/1/2021 15:10	Depth to Water Detail	23.24	ft
BY-AP-MW-20V	11/1/2021 15:10	Oxidation Reduction Potention	46.44	mv
BY-AP-MW-20V	11/1/2021 15:10	pH	5.97	SU
BY-AP-MW-20V	11/1/2021 15:10	Temperature	20.71	C
BY-AP-MW-20V	11/1/2021 15:10	Turbidity	2.18	NTU
BY-AP-MW-20V	11/1/2021 15:15	Conductivity	562.28	uS/cm
BY-AP-MW-20V	11/1/2021 15:15	DO	0.16	mg/L
BY-AP-MW-20V	11/1/2021 15:15	Depth to Water Detail	23.24	ft
BY-AP-MW-20V	11/1/2021 15:15	Oxidation Reduction Potention	41.99	mv
BY-AP-MW-20V	11/1/2021 15:15	pH	6	SU
BY-AP-MW-20V	11/1/2021 15:15	Temperature	20.7	C
BY-AP-MW-20V	11/1/2021 15:15	Turbidity	2.45	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-16	11/1/2021 16:06	Conductivity	553.23	uS/cm
BY-AP-MW-16	11/1/2021 16:06	DO	0.12	mg/L
BY-AP-MW-16	11/1/2021 16:06	Depth to Water Detail	23.34	ft
BY-AP-MW-16	11/1/2021 16:06	Oxidation Reduction Potention	106.84	mv
BY-AP-MW-16	11/1/2021 16:06	pH	5.32	SU
BY-AP-MW-16	11/1/2021 16:06	Temperature	21.44	C
BY-AP-MW-16	11/1/2021 16:06	Turbidity	7.89	NTU
BY-AP-MW-16	11/1/2021 16:11	Conductivity	548.51	uS/cm
BY-AP-MW-16	11/1/2021 16:11	DO	0.15	mg/L
BY-AP-MW-16	11/1/2021 16:11	Depth to Water Detail	23.34	ft
BY-AP-MW-16	11/1/2021 16:11	Oxidation Reduction Potention	101.55	mv
BY-AP-MW-16	11/1/2021 16:11	pH	5.38	SU
BY-AP-MW-16	11/1/2021 16:11	Temperature	21.42	C
BY-AP-MW-16	11/1/2021 16:11	Turbidity	2.98	NTU
BY-AP-MW-16	11/1/2021 16:16	Conductivity	547.67	uS/cm
BY-AP-MW-16	11/1/2021 16:16	DO	0.15	mg/L
BY-AP-MW-16	11/1/2021 16:16	Depth to Water Detail	23.34	ft
BY-AP-MW-16	11/1/2021 16:16	Oxidation Reduction Potention	97.03	mv
BY-AP-MW-16	11/1/2021 16:16	pH	5.42	SU
BY-AP-MW-16	11/1/2021 16:16	Temperature	21.41	C
BY-AP-MW-16	11/1/2021 16:16	Turbidity	3.05	NTU
BY-AP-MW-16	11/1/2021 16:21	Conductivity	549.29	uS/cm
BY-AP-MW-16	11/1/2021 16:21	DO	0.15	mg/L
BY-AP-MW-16	11/1/2021 16:21	Depth to Water Detail	23.34	ft
BY-AP-MW-16	11/1/2021 16:21	Oxidation Reduction Potention	98.5	mv
BY-AP-MW-16	11/1/2021 16:21	pH	5.36	SU
BY-AP-MW-16	11/1/2021 16:21	Temperature	21.37	C
BY-AP-MW-16	11/1/2021 16:21	Turbidity	2.21	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-25V	11/2/2021 9:47	Conductivity	38.07	uS/cm
BY-AP-MW-25V	11/2/2021 9:47	DO	3.33	mg/L
BY-AP-MW-25V	11/2/2021 9:47	Depth to Water Detail	21.22	ft
BY-AP-MW-25V	11/2/2021 9:47	Oxidation Reduction Potention	167.34	mv
BY-AP-MW-25V	11/2/2021 9:47	pH	5.32	SU
BY-AP-MW-25V	11/2/2021 9:47	Temperature	22.39	C
BY-AP-MW-25V	11/2/2021 9:47	Turbidity	6.07	NTU
BY-AP-MW-25V	11/2/2021 9:52	Conductivity	37.4	uS/cm
BY-AP-MW-25V	11/2/2021 9:52	DO	3.39	mg/L
BY-AP-MW-25V	11/2/2021 9:52	Depth to Water Detail	21.22	ft
BY-AP-MW-25V	11/2/2021 9:52	Oxidation Reduction Potention	197.49	mv
BY-AP-MW-25V	11/2/2021 9:52	pH	4.66	SU
BY-AP-MW-25V	11/2/2021 9:52	Temperature	22.23	C
BY-AP-MW-25V	11/2/2021 9:52	Turbidity	3.9	NTU
BY-AP-MW-25V	11/2/2021 9:57	Conductivity	37.52	uS/cm
BY-AP-MW-25V	11/2/2021 9:57	DO	3.38	mg/L
BY-AP-MW-25V	11/2/2021 9:57	Depth to Water Detail	21.22	ft
BY-AP-MW-25V	11/2/2021 9:57	Oxidation Reduction Potention	192.18	mv
BY-AP-MW-25V	11/2/2021 9:57	pH	4.78	SU
BY-AP-MW-25V	11/2/2021 9:57	Temperature	22.25	C
BY-AP-MW-25V	11/2/2021 9:57	Turbidity	2.97	NTU
BY-AP-MW-25V	11/2/2021 10:02	Conductivity	37.79	uS/cm
BY-AP-MW-25V	11/2/2021 10:02	DO	3.38	mg/L
BY-AP-MW-25V	11/2/2021 10:02	Depth to Water Detail	21.22	ft
BY-AP-MW-25V	11/2/2021 10:02	Oxidation Reduction Potention	170.87	mv
BY-AP-MW-25V	11/2/2021 10:02	pH	5.04	SU
BY-AP-MW-25V	11/2/2021 10:02	Temperature	22.23	C
BY-AP-MW-25V	11/2/2021 10:02	Turbidity	2.89	NTU
BY-AP-MW-25V	11/2/2021 10:07	Conductivity	38.13	uS/cm
BY-AP-MW-25V	11/2/2021 10:07	DO	3.37	mg/L
BY-AP-MW-25V	11/2/2021 10:07	Depth to Water Detail	21.22	ft
BY-AP-MW-25V	11/2/2021 10:07	Oxidation Reduction Potention	168.86	mv
BY-AP-MW-25V	11/2/2021 10:07	pH	5.07	SU
BY-AP-MW-25V	11/2/2021 10:07	Temperature	22.23	C
BY-AP-MW-25V	11/2/2021 10:07	Turbidity	2.25	NTU
BY-AP-MW-25V	11/2/2021 10:12	Conductivity	38.15	uS/cm
BY-AP-MW-25V	11/2/2021 10:12	DO	3.39	mg/L
BY-AP-MW-25V	11/2/2021 10:12	Depth to Water Detail	21.22	ft
BY-AP-MW-25V	11/2/2021 10:12	Oxidation Reduction Potention	164.08	mv
BY-AP-MW-25V	11/2/2021 10:12	pH	5.13	SU
BY-AP-MW-25V	11/2/2021 10:12	Temperature	22.18	C
BY-AP-MW-25V	11/2/2021 10:12	Turbidity	2.12	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-25H	11/2/2021 10:55	Conductivity	52.04	uS/cm
BY-AP-MW-25H	11/2/2021 10:55	DO	0.84	mg/L
BY-AP-MW-25H	11/2/2021 10:55	Depth to Water Detail	21.16	ft
BY-AP-MW-25H	11/2/2021 10:55	Oxidation Reduction Potention	198.55	mv
BY-AP-MW-25H	11/2/2021 10:55	pH	4.36	SU
BY-AP-MW-25H	11/2/2021 10:55	Temperature	22.53	C
BY-AP-MW-25H	11/2/2021 10:55	Turbidity	1.69	NTU
BY-AP-MW-25H	11/2/2021 11:00	Conductivity	52.07	uS/cm
BY-AP-MW-25H	11/2/2021 11:00	DO	0.83	mg/L
BY-AP-MW-25H	11/2/2021 11:00	Depth to Water Detail	21.16	ft
BY-AP-MW-25H	11/2/2021 11:00	Oxidation Reduction Potention	170.08	mv
BY-AP-MW-25H	11/2/2021 11:00	pH	4.85	SU
BY-AP-MW-25H	11/2/2021 11:00	Temperature	22.58	C
BY-AP-MW-25H	11/2/2021 11:00	Turbidity	1.63	NTU
BY-AP-MW-25H	11/2/2021 11:05	Conductivity	52.17	uS/cm
BY-AP-MW-25H	11/2/2021 11:05	DO	0.83	mg/L
BY-AP-MW-25H	11/2/2021 11:05	Depth to Water Detail	21.16	ft
BY-AP-MW-25H	11/2/2021 11:05	Oxidation Reduction Potention	161.54	mv
BY-AP-MW-25H	11/2/2021 11:05	pH	4.99	SU
BY-AP-MW-25H	11/2/2021 11:05	Temperature	22.57	C
BY-AP-MW-25H	11/2/2021 11:05	Turbidity	2.29	NTU
BY-AP-MW-25H	11/2/2021 11:10	Conductivity	51.86	uS/cm
BY-AP-MW-25H	11/2/2021 11:10	DO	0.81	mg/L
BY-AP-MW-25H	11/2/2021 11:10	Depth to Water Detail	21.16	ft
BY-AP-MW-25H	11/2/2021 11:10	Oxidation Reduction Potention	157.87	mv
BY-AP-MW-25H	11/2/2021 11:10	pH	5.01	SU
BY-AP-MW-25H	11/2/2021 11:10	Temperature	22.59	C
BY-AP-MW-25H	11/2/2021 11:10	Turbidity	2.72	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-11	11/2/2021 12:32	Conductivity	647.22	uS/cm
BY-AP-MW-11	11/2/2021 12:32	DO	0.2	mg/L
BY-AP-MW-11	11/2/2021 12:32	Depth to Water Detail	21.71	ft
BY-AP-MW-11	11/2/2021 12:32	Oxidation Reduction Potention	110.02	mv
BY-AP-MW-11	11/2/2021 12:32	pH	5.72	SU
BY-AP-MW-11	11/2/2021 12:32	Temperature	21.1	C
BY-AP-MW-11	11/2/2021 12:32	Turbidity	9.15	NTU
BY-AP-MW-11	11/2/2021 12:37	Conductivity	642.69	uS/cm
BY-AP-MW-11	11/2/2021 12:37	DO	0.18	mg/L
BY-AP-MW-11	11/2/2021 12:37	Depth to Water Detail	21.71	ft
BY-AP-MW-11	11/2/2021 12:37	Oxidation Reduction Potention	85.19	mv
BY-AP-MW-11	11/2/2021 12:37	pH	5.77	SU
BY-AP-MW-11	11/2/2021 12:37	Temperature	21.13	C
BY-AP-MW-11	11/2/2021 12:37	Turbidity	8.24	NTU
BY-AP-MW-11	11/2/2021 12:42	Conductivity	638.56	uS/cm
BY-AP-MW-11	11/2/2021 12:42	DO	0.16	mg/L
BY-AP-MW-11	11/2/2021 12:42	Depth to Water Detail	21.71	ft
BY-AP-MW-11	11/2/2021 12:42	Oxidation Reduction Potention	70.97	mv
BY-AP-MW-11	11/2/2021 12:42	pH	5.8	SU
BY-AP-MW-11	11/2/2021 12:42	Temperature	21.13	C
BY-AP-MW-11	11/2/2021 12:42	Turbidity	7.87	NTU
BY-AP-MW-11	11/2/2021 12:47	Conductivity	634.96	uS/cm
BY-AP-MW-11	11/2/2021 12:47	DO	0.16	mg/L
BY-AP-MW-11	11/2/2021 12:47	Depth to Water Detail	21.71	ft
BY-AP-MW-11	11/2/2021 12:47	Oxidation Reduction Potention	61.41	mv
BY-AP-MW-11	11/2/2021 12:47	pH	5.84	SU
BY-AP-MW-11	11/2/2021 12:47	Temperature	21.15	C
BY-AP-MW-11	11/2/2021 12:47	Turbidity	6.85	NTU

**Alabama Power Company
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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-1	11/1/2021 13:58	Conductivity	776.29	uS/cm
BY-AP-MW-1	11/1/2021 13:58	DO	0.2	mg/L
BY-AP-MW-1	11/1/2021 13:58	Depth to Water Detail	21.51	ft
BY-AP-MW-1	11/1/2021 13:58	Oxidation Reduction Potention	7.52	mv
BY-AP-MW-1	11/1/2021 13:58	pH	6.05	SU
BY-AP-MW-1	11/1/2021 13:58	Temperature	21.99	C
BY-AP-MW-1	11/1/2021 13:58	Turbidity	2.69	NTU
BY-AP-MW-1	11/1/2021 14:03	Conductivity	788.04	uS/cm
BY-AP-MW-1	11/1/2021 14:03	DO	0.18	mg/L
BY-AP-MW-1	11/1/2021 14:03	Depth to Water Detail	21.51	ft
BY-AP-MW-1	11/1/2021 14:03	Oxidation Reduction Potention	-0.22	mv
BY-AP-MW-1	11/1/2021 14:03	pH	6.17	SU
BY-AP-MW-1	11/1/2021 14:03	Temperature	21.87	C
BY-AP-MW-1	11/1/2021 14:03	Turbidity	3.03	NTU
BY-AP-MW-1	11/1/2021 14:08	Conductivity	786.43	uS/cm
BY-AP-MW-1	11/1/2021 14:08	DO	0.17	mg/L
BY-AP-MW-1	11/1/2021 14:08	Depth to Water Detail	21.51	ft
BY-AP-MW-1	11/1/2021 14:08	Oxidation Reduction Potention	-5.69	mv
BY-AP-MW-1	11/1/2021 14:08	pH	6.02	SU
BY-AP-MW-1	11/1/2021 14:08	Temperature	21.86	C
BY-AP-MW-1	11/1/2021 14:08	Turbidity	3.4	NTU
BY-AP-MW-1	11/1/2021 14:13	Conductivity	786.55	uS/cm
BY-AP-MW-1	11/1/2021 14:13	DO	0.16	mg/L
BY-AP-MW-1	11/1/2021 14:13	Depth to Water Detail	21.51	ft
BY-AP-MW-1	11/1/2021 14:13	Oxidation Reduction Potention	-10.42	mv
BY-AP-MW-1	11/1/2021 14:13	pH	6.01	SU
BY-AP-MW-1	11/1/2021 14:13	Temperature	21.93	C
BY-AP-MW-1	11/1/2021 14:13	Turbidity	3.51	NTU

**Alabama Power Company
Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-1V	11/1/2021 13:13	Conductivity	357.19	uS/cm
BY-AP-MW-1V	11/1/2021 13:13	DO	0.34	mg/L
BY-AP-MW-1V	11/1/2021 13:13	Depth to Water Detail	23.19	ft
BY-AP-MW-1V	11/1/2021 13:13	Oxidation Reduction Potention	72.64	mv
BY-AP-MW-1V	11/1/2021 13:13	pH	5.76	SU
BY-AP-MW-1V	11/1/2021 13:13	Temperature	21.86	C
BY-AP-MW-1V	11/1/2021 13:13	Turbidity	1.53	NTU
BY-AP-MW-1V	11/1/2021 13:18	Conductivity	341.17	uS/cm
BY-AP-MW-1V	11/1/2021 13:18	DO	0.28	mg/L
BY-AP-MW-1V	11/1/2021 13:18	Depth to Water Detail	23.19	ft
BY-AP-MW-1V	11/1/2021 13:18	Oxidation Reduction Potention	64.47	mv
BY-AP-MW-1V	11/1/2021 13:18	pH	5.77	SU
BY-AP-MW-1V	11/1/2021 13:18	Temperature	21.82	C
BY-AP-MW-1V	11/1/2021 13:18	Turbidity	1.65	NTU
BY-AP-MW-1V	11/1/2021 13:23	Conductivity	335.46	uS/cm
BY-AP-MW-1V	11/1/2021 13:23	DO	0.24	mg/L
BY-AP-MW-1V	11/1/2021 13:23	Depth to Water Detail	23.19	ft
BY-AP-MW-1V	11/1/2021 13:23	Oxidation Reduction Potention	56	mv
BY-AP-MW-1V	11/1/2021 13:23	pH	5.79	SU
BY-AP-MW-1V	11/1/2021 13:23	Temperature	21.88	C
BY-AP-MW-1V	11/1/2021 13:23	Turbidity	1.54	NTU
BY-AP-MW-1V	11/1/2021 13:28	Conductivity	333.08	uS/cm
BY-AP-MW-1V	11/1/2021 13:28	DO	0.23	mg/L
BY-AP-MW-1V	11/1/2021 13:28	Depth to Water Detail	23.19	ft
BY-AP-MW-1V	11/1/2021 13:28	Oxidation Reduction Potention	42.76	mv
BY-AP-MW-1V	11/1/2021 13:28	pH	5.76	SU
BY-AP-MW-1V	11/1/2021 13:28	Temperature	21.75	C
BY-AP-MW-1V	11/1/2021 13:28	Turbidity	1.67	NTU

**Alabama Power Company
Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-2	11/1/2021 15:09	Conductivity	54.74	uS/cm
BY-AP-MW-2	11/1/2021 15:09	DO	0.78	mg/L
BY-AP-MW-2	11/1/2021 15:09	Depth to Water Detail	20.63	ft
BY-AP-MW-2	11/1/2021 15:09	Oxidation Reduction Potention	74.55	mv
BY-AP-MW-2	11/1/2021 15:09	pH	5.2	SU
BY-AP-MW-2	11/1/2021 15:09	Temperature	21.96	C
BY-AP-MW-2	11/1/2021 15:09	Turbidity	0.65	NTU
BY-AP-MW-2	11/1/2021 15:14	Conductivity	55.29	uS/cm
BY-AP-MW-2	11/1/2021 15:14	DO	0.19	mg/L
BY-AP-MW-2	11/1/2021 15:14	Depth to Water Detail	20.63	ft
BY-AP-MW-2	11/1/2021 15:14	Oxidation Reduction Potention	75.21	mv
BY-AP-MW-2	11/1/2021 15:14	pH	5.22	SU
BY-AP-MW-2	11/1/2021 15:14	Temperature	21.82	C
BY-AP-MW-2	11/1/2021 15:14	Turbidity	0.59	NTU
BY-AP-MW-2	11/1/2021 15:19	Conductivity	55.67	uS/cm
BY-AP-MW-2	11/1/2021 15:19	DO	0.18	mg/L
BY-AP-MW-2	11/1/2021 15:19	Depth to Water Detail	20.63	ft
BY-AP-MW-2	11/1/2021 15:19	Oxidation Reduction Potention	76.54	mv
BY-AP-MW-2	11/1/2021 15:19	pH	5.23	SU
BY-AP-MW-2	11/1/2021 15:19	Temperature	21.85	C
BY-AP-MW-2	11/1/2021 15:19	Turbidity	0.44	NTU
BY-AP-MW-2	11/1/2021 15:24	Conductivity	55.42	uS/cm
BY-AP-MW-2	11/1/2021 15:24	DO	0.18	mg/L
BY-AP-MW-2	11/1/2021 15:24	Depth to Water Detail	20.63	ft
BY-AP-MW-2	11/1/2021 15:24	Oxidation Reduction Potention	75.86	mv
BY-AP-MW-2	11/1/2021 15:24	pH	5.2	SU
BY-AP-MW-2	11/1/2021 15:24	Temperature	21.81	C
BY-AP-MW-2	11/1/2021 15:24	Turbidity	0.47	NTU

**Alabama Power Company
Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-3	11/1/2021 15:59	Conductivity	32.1	uS/cm
BY-AP-MW-3	11/1/2021 15:59	DO	2.45	mg/L
BY-AP-MW-3	11/1/2021 15:59	Depth to Water Detail	23.46	ft
BY-AP-MW-3	11/1/2021 15:59	Oxidation Reduction Potention	83.22	mv
BY-AP-MW-3	11/1/2021 15:59	pH	4.74	SU
BY-AP-MW-3	11/1/2021 15:59	Temperature	21.22	C
BY-AP-MW-3	11/1/2021 15:59	Turbidity	0.34	NTU
BY-AP-MW-3	11/1/2021 16:04	Conductivity	35.47	uS/cm
BY-AP-MW-3	11/1/2021 16:04	DO	2.48	mg/L
BY-AP-MW-3	11/1/2021 16:04	Depth to Water Detail	23.46	ft
BY-AP-MW-3	11/1/2021 16:04	Oxidation Reduction Potention	83.37	mv
BY-AP-MW-3	11/1/2021 16:04	pH	4.74	SU
BY-AP-MW-3	11/1/2021 16:04	Temperature	21.21	C
BY-AP-MW-3	11/1/2021 16:04	Turbidity	0.35	NTU
BY-AP-MW-3	11/1/2021 16:09	Conductivity	37.69	uS/cm
BY-AP-MW-3	11/1/2021 16:09	DO	2.41	mg/L
BY-AP-MW-3	11/1/2021 16:09	Depth to Water Detail	23.46	ft
BY-AP-MW-3	11/1/2021 16:09	Oxidation Reduction Potention	82.19	mv
BY-AP-MW-3	11/1/2021 16:09	pH	4.75	SU
BY-AP-MW-3	11/1/2021 16:09	Temperature	21.15	C
BY-AP-MW-3	11/1/2021 16:09	Turbidity	0.37	NTU
BY-AP-MW-3	11/1/2021 16:14	Conductivity	39.3	uS/cm
BY-AP-MW-3	11/1/2021 16:14	DO	2.41	mg/L
BY-AP-MW-3	11/1/2021 16:14	Depth to Water Detail	23.46	ft
BY-AP-MW-3	11/1/2021 16:14	Oxidation Reduction Potention	80.95	mv
BY-AP-MW-3	11/1/2021 16:14	pH	4.77	SU
BY-AP-MW-3	11/1/2021 16:14	Temperature	21.15	C
BY-AP-MW-3	11/1/2021 16:14	Turbidity	0.3	NTU
BY-AP-MW-3	11/1/2021 16:19	Conductivity	40.13	uS/cm
BY-AP-MW-3	11/1/2021 16:19	DO	2.5	mg/L
BY-AP-MW-3	11/1/2021 16:19	Depth to Water Detail	23.46	ft
BY-AP-MW-3	11/1/2021 16:19	Oxidation Reduction Potention	79.44	mv
BY-AP-MW-3	11/1/2021 16:19	pH	4.85	SU
BY-AP-MW-3	11/1/2021 16:19	Temperature	21.14	C
BY-AP-MW-3	11/1/2021 16:19	Turbidity	0.31	NTU
BY-AP-MW-3	11/1/2021 16:24	Conductivity	40.84	uS/cm
BY-AP-MW-3	11/1/2021 16:24	DO	2.43	mg/L
BY-AP-MW-3	11/1/2021 16:24	Depth to Water Detail	23.46	ft
BY-AP-MW-3	11/1/2021 16:24	Oxidation Reduction Potention	78.34	mv
BY-AP-MW-3	11/1/2021 16:24	pH	4.89	SU
BY-AP-MW-3	11/1/2021 16:24	Temperature	21.12	C
BY-AP-MW-3	11/1/2021 16:24	Turbidity	0.35	NTU
BY-AP-MW-3	11/1/2021 16:29	Conductivity	41.19	uS/cm
BY-AP-MW-3	11/1/2021 16:29	DO	2.41	mg/L

**Alabama Power Company
Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-3	11/1/2021 16:29	Depth to Water Detail	23.46	ft
BY-AP-MW-3	11/1/2021 16:29	Oxidation Reduction Potention	76.17	mv
BY-AP-MW-3	11/1/2021 16:29	pH	4.94	SU
BY-AP-MW-3	11/1/2021 16:29	Temperature	21.1	C
BY-AP-MW-3	11/1/2021 16:29	Turbidity	0.39	NTU

**Alabama Power Company
Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-4	11/1/2021 17:10	Conductivity	38.31	uS/cm
BY-AP-MW-4	11/1/2021 17:10	DO	3.92	mg/L
BY-AP-MW-4	11/1/2021 17:10	Depth to Water Detail	24.17	ft
BY-AP-MW-4	11/1/2021 17:10	Oxidation Reduction Potention	68.94	mv
BY-AP-MW-4	11/1/2021 17:10	pH	5.11	SU
BY-AP-MW-4	11/1/2021 17:10	Temperature	21.44	C
BY-AP-MW-4	11/1/2021 17:10	Turbidity	6.82	NTU
BY-AP-MW-4	11/1/2021 17:15	Conductivity	39.39	uS/cm
BY-AP-MW-4	11/1/2021 17:15	DO	3.61	mg/L
BY-AP-MW-4	11/1/2021 17:15	Depth to Water Detail	24.17	ft
BY-AP-MW-4	11/1/2021 17:15	Oxidation Reduction Potention	68.08	mv
BY-AP-MW-4	11/1/2021 17:15	pH	5.11	SU
BY-AP-MW-4	11/1/2021 17:15	Temperature	21.39	C
BY-AP-MW-4	11/1/2021 17:15	Turbidity	4.41	NTU
BY-AP-MW-4	11/1/2021 17:20	Conductivity	39.59	uS/cm
BY-AP-MW-4	11/1/2021 17:20	DO	3.54	mg/L
BY-AP-MW-4	11/1/2021 17:20	Depth to Water Detail	24.17	ft
BY-AP-MW-4	11/1/2021 17:20	Oxidation Reduction Potention	68.44	mv
BY-AP-MW-4	11/1/2021 17:20	pH	5.14	SU
BY-AP-MW-4	11/1/2021 17:20	Temperature	21.38	C
BY-AP-MW-4	11/1/2021 17:20	Turbidity	2.63	NTU
BY-AP-MW-4	11/1/2021 17:25	Conductivity	39.58	uS/cm
BY-AP-MW-4	11/1/2021 17:25	DO	3.5	mg/L
BY-AP-MW-4	11/1/2021 17:25	Depth to Water Detail	24.17	ft
BY-AP-MW-4	11/1/2021 17:25	Oxidation Reduction Potention	68.3	mv
BY-AP-MW-4	11/1/2021 17:25	pH	5.18	SU
BY-AP-MW-4	11/1/2021 17:25	Temperature	21.36	C
BY-AP-MW-4	11/1/2021 17:25	Turbidity	2.41	NTU

**Alabama Power Company
Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-5	11/2/2021 9:28	Conductivity	456.99	uS/cm
BY-AP-MW-5	11/2/2021 9:28	DO	0.16	mg/L
BY-AP-MW-5	11/2/2021 9:28	Depth to Water Detail	26.7	ft
BY-AP-MW-5	11/2/2021 9:28	Oxidation Reduction Potention	-12.93	mv
BY-AP-MW-5	11/2/2021 9:28	pH	6.34	SU
BY-AP-MW-5	11/2/2021 9:28	Temperature	21.82	C
BY-AP-MW-5	11/2/2021 9:28	Turbidity	0.69	NTU
BY-AP-MW-5	11/2/2021 9:33	Conductivity	459.49	uS/cm
BY-AP-MW-5	11/2/2021 9:33	DO	0.13	mg/L
BY-AP-MW-5	11/2/2021 9:33	Depth to Water Detail	26.7	ft
BY-AP-MW-5	11/2/2021 9:33	Oxidation Reduction Potention	-16.95	mv
BY-AP-MW-5	11/2/2021 9:33	pH	6.36	SU
BY-AP-MW-5	11/2/2021 9:33	Temperature	21.79	C
BY-AP-MW-5	11/2/2021 9:33	Turbidity	0.72	NTU
BY-AP-MW-5	11/2/2021 9:38	Conductivity	458.05	uS/cm
BY-AP-MW-5	11/2/2021 9:38	DO	0.12	mg/L
BY-AP-MW-5	11/2/2021 9:38	Depth to Water Detail	26.7	ft
BY-AP-MW-5	11/2/2021 9:38	Oxidation Reduction Potention	-21.46	mv
BY-AP-MW-5	11/2/2021 9:38	pH	6.34	SU
BY-AP-MW-5	11/2/2021 9:38	Temperature	21.79	C
BY-AP-MW-5	11/2/2021 9:38	Turbidity	1.02	NTU
BY-AP-MW-5	11/2/2021 9:43	Conductivity	458.97	uS/cm
BY-AP-MW-5	11/2/2021 9:43	DO	0.12	mg/L
BY-AP-MW-5	11/2/2021 9:43	Depth to Water Detail	26.7	ft
BY-AP-MW-5	11/2/2021 9:43	Oxidation Reduction Potention	-24.62	mv
BY-AP-MW-5	11/2/2021 9:43	pH	6.36	SU
BY-AP-MW-5	11/2/2021 9:43	Temperature	21.81	C
BY-AP-MW-5	11/2/2021 9:43	Turbidity	0.84	NTU

**Alabama Power Company
Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-5V	11/2/2021 8:38	Conductivity	111.87	uS/cm
BY-AP-MW-5V	11/2/2021 8:38	DO	1.2	mg/L
BY-AP-MW-5V	11/2/2021 8:38	Depth to Water Detail	26.68	ft
BY-AP-MW-5V	11/2/2021 8:38	Oxidation Reduction Potention	95.76	mv
BY-AP-MW-5V	11/2/2021 8:38	pH	6.41	SU
BY-AP-MW-5V	11/2/2021 8:38	Temperature	21.41	C
BY-AP-MW-5V	11/2/2021 8:38	Turbidity	47.5	NTU
BY-AP-MW-5V	11/2/2021 8:43	Conductivity	114.93	uS/cm
BY-AP-MW-5V	11/2/2021 8:43	DO	1.32	mg/L
BY-AP-MW-5V	11/2/2021 8:43	Depth to Water Detail	26.68	ft
BY-AP-MW-5V	11/2/2021 8:43	Oxidation Reduction Potention	76.2	mv
BY-AP-MW-5V	11/2/2021 8:43	pH	6.37	SU
BY-AP-MW-5V	11/2/2021 8:43	Temperature	21.42	C
BY-AP-MW-5V	11/2/2021 8:43	Turbidity	12.24	NTU
BY-AP-MW-5V	11/2/2021 8:48	Conductivity	118.69	uS/cm
BY-AP-MW-5V	11/2/2021 8:48	DO	1.39	mg/L
BY-AP-MW-5V	11/2/2021 8:48	Depth to Water Detail	26.68	ft
BY-AP-MW-5V	11/2/2021 8:48	Oxidation Reduction Potention	71.49	mv
BY-AP-MW-5V	11/2/2021 8:48	pH	6.39	SU
BY-AP-MW-5V	11/2/2021 8:48	Temperature	21.41	C
BY-AP-MW-5V	11/2/2021 8:48	Turbidity	7.27	NTU
BY-AP-MW-5V	11/2/2021 8:53	Conductivity	122.52	uS/cm
BY-AP-MW-5V	11/2/2021 8:53	DO	1.44	mg/L
BY-AP-MW-5V	11/2/2021 8:53	Depth to Water Detail	26.68	ft
BY-AP-MW-5V	11/2/2021 8:53	Oxidation Reduction Potention	70.95	mv
BY-AP-MW-5V	11/2/2021 8:53	pH	6.35	SU
BY-AP-MW-5V	11/2/2021 8:53	Temperature	21.4	C
BY-AP-MW-5V	11/2/2021 8:53	Turbidity	4.02	NTU
BY-AP-MW-5V	11/2/2021 8:58	Conductivity	125.37	uS/cm
BY-AP-MW-5V	11/2/2021 8:58	DO	1.42	mg/L
BY-AP-MW-5V	11/2/2021 8:58	Depth to Water Detail	26.68	ft
BY-AP-MW-5V	11/2/2021 8:58	Oxidation Reduction Potention	67.13	mv
BY-AP-MW-5V	11/2/2021 8:58	pH	6.38	SU
BY-AP-MW-5V	11/2/2021 8:58	Temperature	21.42	C
BY-AP-MW-5V	11/2/2021 8:58	Turbidity	4.26	NTU
BY-AP-MW-5V	11/2/2021 9:03	Conductivity	126.78	uS/cm
BY-AP-MW-5V	11/2/2021 9:03	DO	1.43	mg/L
BY-AP-MW-5V	11/2/2021 9:03	Depth to Water Detail	26.68	ft
BY-AP-MW-5V	11/2/2021 9:03	Oxidation Reduction Potention	64.64	mv
BY-AP-MW-5V	11/2/2021 9:03	pH	6.35	SU
BY-AP-MW-5V	11/2/2021 9:03	Temperature	21.46	C
BY-AP-MW-5V	11/2/2021 9:03	Turbidity	3.71	NTU

**Alabama Power Company
Plant Barry Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
BY-AP-MW-6	11/2/2021 10:29	Conductivity	52.66	uS/cm
BY-AP-MW-6	11/2/2021 10:29	DO	0.18	mg/L
BY-AP-MW-6	11/2/2021 10:29	Depth to Water Detail	24.7	ft
BY-AP-MW-6	11/2/2021 10:29	Oxidation Reduction Potention	48.29	mv
BY-AP-MW-6	11/2/2021 10:29	pH	5.42	SU
BY-AP-MW-6	11/2/2021 10:29	Temperature	21	C
BY-AP-MW-6	11/2/2021 10:29	Turbidity	0.27	NTU
BY-AP-MW-6	11/2/2021 10:34	Conductivity	53.49	uS/cm
BY-AP-MW-6	11/2/2021 10:34	DO	0.17	mg/L
BY-AP-MW-6	11/2/2021 10:34	Depth to Water Detail	24.7	ft
BY-AP-MW-6	11/2/2021 10:34	Oxidation Reduction Potention	49.54	mv
BY-AP-MW-6	11/2/2021 10:34	pH	5.45	SU
BY-AP-MW-6	11/2/2021 10:34	Temperature	21.05	C
BY-AP-MW-6	11/2/2021 10:34	Turbidity	0.28	NTU
BY-AP-MW-6	11/2/2021 10:39	Conductivity	53.58	uS/cm
BY-AP-MW-6	11/2/2021 10:39	DO	0.18	mg/L
BY-AP-MW-6	11/2/2021 10:39	Depth to Water Detail	24.7	ft
BY-AP-MW-6	11/2/2021 10:39	Oxidation Reduction Potention	45.87	mv
BY-AP-MW-6	11/2/2021 10:39	pH	5.53	SU
BY-AP-MW-6	11/2/2021 10:39	Temperature	20.9	C
BY-AP-MW-6	11/2/2021 10:39	Turbidity	0.25	NTU
BY-AP-MW-6	11/2/2021 10:44	Conductivity	53.46	uS/cm
BY-AP-MW-6	11/2/2021 10:44	DO	0.17	mg/L
BY-AP-MW-6	11/2/2021 10:44	Depth to Water Detail	24.7	ft
BY-AP-MW-6	11/2/2021 10:44	Oxidation Reduction Potention	42.9	mv
BY-AP-MW-6	11/2/2021 10:44	pH	5.59	SU
BY-AP-MW-6	11/2/2021 10:44	Temperature	20.92	C
BY-AP-MW-6	11/2/2021 10:44	Turbidity	0.26	NTU

Appendix D



Appendix D. Horizontal Groundwater Flow Velocity Calculations

Plant Barry Ash Pond

2021 Annual Groundwater Monitoring Period

Source	2021 Monitoring Event	MW-1	MW-10	Distance	Hydraulic Gradient	Hydraulic Conductivity	Effective Porosity	Calculated Groundwater Flow Velocity	Calculated Groundwater Flow Velocity
		h ₁ (ft)	h ₂ (ft)	Δl (ft)	Δh/Δl (ft/ft)	K (ft/d)	n	(ft/d)	(ft/yr)
Pumping Test	SA01	5.28	2.17	4564.34	0.00068	9.40	0.25	0.0256	9.35
	SA02	5.06	1.89	4564.34	0.00069			0.0261	9.53

Notes:

ft = feet

ft/d = feet per day

ft/ft = feet per foot

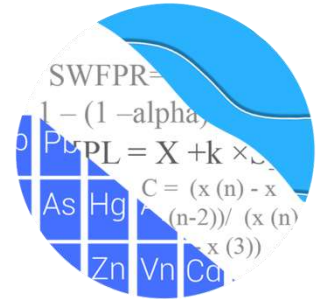
ft/yr = feet per year

Appendix E

GROUNDWATER STATS CONSULTING

July 14, 2021

Southern Company Services
Attn: Mr. Greg Dyer
3535 Colonnade Parkway
Birmingham, AL 35243



Re: Plant Barry Ash Pond
1st Semi-Annual Statistical Analysis – May 2021 Sample Event

Dear Mr. Dyer,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the statistical analysis of groundwater data for the May 2021 1st Semi-Annual sample event for Alabama Power Company's Plant Barry Ash Pond. 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 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:** BY-GSA-MW-1, BY-GSA-MW-2, BY-GSA-MW-3, and BY-GSA-MW-4
- **Downgradient wells:** BY-AP-MW-1, BY-AP-MW-2, BY-AP-MW-3, BY-AP-MW-4, BY-AP-MW-5, BY-AP-MW-6, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-9, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15, and BY-AP-MW-16
- **Delineation wells:** BY-AP-MW-1V, BY-AP-MW-5V, BY-AP-MW-7V, BY-AP-MW-8V, BY-AP-MW-10V, BY-AP-MW-12V, BY-AP-MW-13V, BY-AP-MW-14V, BY-AP-MW-15V, BY-AP-MW-16V, BY-AP-MW-17V, BY-AP-MW-17H, BY-AP-MW-18H, BY-AP-MW-19H, BY-AP-MW-20H, BY-AP-MW-20V, BY-AP-MW-22H, BY-AP-MW-23V, BY-AP-MW-23H, BY-AP-MW-24H, BY-AP-MW-25H, and BY-AP-MW-25VM
- **Piezometer:** BY-AP-MW-15VM

Data from delineation wells are included on time series and box plots but did not require formal statistics. Piezometer BY-AP-MW-15VM only monitors water levels; therefore, it is not included in this analysis. Note that downgradient well BY-AP-MW-5 was not sampled during this event, and is not included in this report.

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 of 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 with 100% non-detects follows this letter. For all constituents, a substitution of the most recent reporting limit is used for non-detect data. In the time series plots and interwell tests, a single reporting limit substitution is used across all wells for a given parameter since the wells are plotted as a group. For calculating intrawell prediction limits, however, the substitution is performed for individual wells and may differ across wells. This generally gives the most conservative limit in each case.

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 data 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 and site/data characteristics:

- Semi-Annual Sampling
- Intrawell Prediction Limits with 1-of-2 resample plan
- Interwell Prediction Limits with 1-of-2 resample plan
- # Background Samples (Intrawell): 11
- # Background Samples (Interwell): 63
- # Constituents: 7
- # Downgradient wells: 16

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 and sulfate
- 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% 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.

Appendix III Background Screening Summary – April 2020

Background data for Appendix III parameters were screened for outliers using Tukey's test for outliers and/or visual screening, and identified outliers were flagged with "o" in the database and shown in a lighter font on the time series graphs and data pages. A list of flagged outliers is included with this report (Appendix C). Flagged values are excluded from background in the calculation of statistical limits in order to better represent background conditions and to produce limits that are conservative from a regulatory perspective. No seasonal patterns were visually apparent on any of the time series plots, and no seasonal adjustments were made.

The Sen's Slope/Mann Kendall trend test was used to evaluate all data at each well to identify statistically significant increasing or decreasing trends. In the absence of suspected contamination, significant trending data are typically not included in the background used for construction of prediction limits. This step serves to reduce variation in background and better represent current background conditions. The results of the trend analyses showed several statistically significant increasing and decreasing trends.

However, the background time period is short, and all trends noted were relatively low in magnitude when compared to average concentrations; therefore, no adjustments were made to any of the records. Detailed trend test results were included with the April 2020 screening report.

Selection of appropriate statistical methods for detecting changes in Appendix III parameter concentrations in downgradient wells is based upon two criteria. The first is spatial variation in concentrations among upgradient wells. The second is statistical comparison of average concentrations in downgradient wells to expected upper limits of corresponding concentrations in upgradient wells.

Analysis of Variance (ANOVA) was used to evaluate spatial variation in groundwater quality among upgradient wells. For the downgradient/upgradient comparison, upper tolerance limits on pooled upgradient well data for each constituent were used in conjunction with confidence intervals for each downgradient well/constituent. When parametric limits are used, the upper tolerance limit includes 95% of the pooled upgradient "population" with 99% confidence; and the confidence interval includes the mean of each downgradient well/constituent with 99% confidence. When nonparametric limits are used, the confidence levels and coverage depend upon the background sample size. When the entire confidence interval for at least one downgradient well/constituent exceeds the upper tolerance limit, interwell methods are initially recommended for that constituent.

Based on the results of the ANOVA and tolerance limit/confidence interval analyses, intrawell limits were recommended for sulfate, and interwell methods were recommended for boron, calcium, chloride, fluoride, pH and TDS. However, as shown on the boxplots, the upgradient levels for pH are very low (acid) and are not representative of downgradient water quality. Therefore, intrawell limits were recommended for pH as well—unless or until a future study confirms that those low levels are representative of unimpacted downgradient conditions.

Evaluation of Appendix III Parameters – May 2021

Intrawell prediction limits were constructed for pH and sulfate using screened background data through May 2019 at each well. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

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. The most recent sample from the same well is compared to its respective background. This statistical method removes the element of variation from across wells and eliminates the chance of mistaking natural spatial variation for a release from the facility. Intrawell prediction limits combined with a 1-of-2 verification strategy were constructed for pH and sulfate (Figure D). Background data will be re-evaluated when a minimum of 4 compliance samples are available.

Interwell prediction limits combined with a 1-of-2 verification strategy were constructed for boron, calcium, chloride, fluoride, and TDS using upgradient well data through March 2021 (Figure E). 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 determine whether there are statistically significant increases (SSIs). Note that during this analysis, the reporting limit for boron increased from 0.1 mg/L to 0.1015 mg/L, but this did not result in any changes to prediction limits.

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 prediction limits may be found in Figure D (intrawell) and Figure E (interwell) following this letter. Exceedances for both interwell and intrawell prediction limits were identified for the following well/constituent pairs:

Interwell:

- Boron: BY-AP-MW-1, BY-AP-MW-8, BY-AP-MW-9, BY-APMW-10, and BY-AP-MW-16
- Calcium: BY-AP-MW-1, BY-AP-MW-2, BY-APMW-7, BY-AP-MW-8, BY-AP-MW-9, BY-AP-MW-10, BY-AP-MW-11, BY-APMW-12, BY-AP- MW-13, BY-AP-MW-14, BY-AP-MW-15, and BY-AP-MW-16
- Chloride: BY-AP-MW-1, BY-AP-MW-7, BY-APMW-8, BY-AP-MW-9, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-APMW-13, BY-AP-MW-14, BY-AP-MW-15, and BY-AP-MW-16
- Fluoride: BY-AP-MW-7, BY-AP-MW-10, and BY-AP-MW-15

- TDS: BY-AP-MW-1, BY-AP-MW-7, BY-APMW-8, BY-AP-MW-9, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-APMW-13, BY-AP-MW-14, BY-AP-MW-15, and BY-AP-MW-16

Intrawell:

- pH: BY-GSA-MW-2 (upgradient), BY-GSA-MW-3 (upgradient), BY-APMW-12, BY-AP-MW-13, and BY-AP-MW-14
- Sulfate: BY-AP-MW-1, BY-AP-MW-8, BY-APMW-9, BY-AP-MW-10, BY-AP-MW-12, BY-AP-MW-13, and BY-AP-MW-15

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. Upgradient trends are an indication of natural variability in groundwater quality unrelated to practices at the site. A summary of the trend test results follows this letter. Statistically significant trends were identified for the following well/constituent pairs:

Increasing:

- Boron: BY-AP-MW-10
- Calcium: BY-GSA-MW-2 (upgradient), BY-GSA-MW-3 (upgradient), BY-GSA-MW-4 (upgradient), BY-AP-MW-7, BY-AP-MW-10, BY-AP-MW-12, and BY-AP-MW-15
- Chloride: BY-AP-MW-10, BY-AP-MW-12, BY-AP-MW-14, BY-AP-MW-15, and BY-AP-MW-16
- Fluoride: BY-GSA-MW-2 (upgradient) and BY-AP-MW-10
- Sulfate: BY-AP-MW-1, BY-AP-MW-8, and BY-AP-MW-12
- TDS: BY-GSA-MW-1 (upgradient), BY-GSA-MW-2 (upgradient), BY-GSA-MW-4 (upgradient), BY-AP-MW-10, and BY-AP-MW-15

Decreasing:

- Boron: BY-AP-MW-8
- Calcium: BY-AP-MW-8
- Chloride: BY-GSA-MW-2 (upgradient)
- pH: BY-GSA-MW-2 (upgradient), BY-GSA-MW-3 (upgradient), and BY-AP-MW-13

Evaluation of Appendix IV Parameters – May 2021

Data from all wells for Appendix IV parameters were reassessed for outliers during previous analyses and a summary of previously flagged outliers follows this report (Figure C).

In accordance with Alabama Department of Environmental Management, the Groundwater Protection Standards (GWPS) utilized during the 2019 2nd semi-annual report were used in the confidence interval analysis for this 2021 1st semi-annual report. The GWPS will be updated during the 2021 2nd semi-annual statistical analysis. The methodology used to create these GWPS is described below.

First, background limits were determined using tolerance limits constructed from pooled upgradient well data. The tolerance limits contain a known fraction (coverage) of the background population with a known level of confidence. When data followed a normal or transformed-normal distribution, parametric tolerance limits were used to calculate background limits for Appendix IV parameters using pooled upgradient well data through October 2019 with a target of 95% confidence and 95% coverage (Figure G).

Nonparametric tolerance limits, which use the highest value in background as the statistical limit, were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples. 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. Note that none of the parametric tolerance limits resulted in higher limits than the established MCLs or CCR-Rule Specified Limits. In future UTL calculations, nonparametric tolerance limits will be used exclusively, as requested by ADEM, to eliminate the effect of variation among upgradient wells.

Confidence intervals were then constructed on downgradient wells using a maximum of the most recent 8 samples through May 2021 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. As mentioned above, well/constituent pairs with 100% non-detects in the most recent 8 samples did not require statistics; therefore, they were deselected prior to construction of confidence intervals. As mentioned above, a list of deselected well/constituent pairs follows this report. The decision logic, with respect to the use of a parametric or nonparametric confidence intervals, is similar to that used to construct tolerance limits as

discussed above. 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. Note the following reporting limits changed from the previous analysis to this analysis:

- Antimony: <0.003 mg/L to <0.001015 mg/L
- Arsenic: <0.005 mg/L to <0.000203 mg/L
- Beryllium: <0.003 mg/L to <0.001015 mg/L
- Cadmium: <0.001 mg/L to <0.000203 mg/L
- Lead: <0.005 mg/L to <0.000203 mg/L
- Lithium: <0.02 mg/L to <0.01999956 mg/L
- Molybdenum: <0.01 mg/L to <0.000203 mg/L
- Selenium: <0.01 mg/L to <0.001015 mg/L
- Thallium: <0.001 mg/L to <0.000203 mg/L

While this resulted in slight changes to the upper and lower confidence limits in some cases, the confidence interval findings were consistent with those from the Fall 2020 analysis. 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: BY-AP-MW-1, BY-AP-MW-5, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-9, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15, and BY-AP-MW-16
- Cobalt: BY-AP-MW-7 and BY-AP-MW-15

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Barry Ash Pond. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,

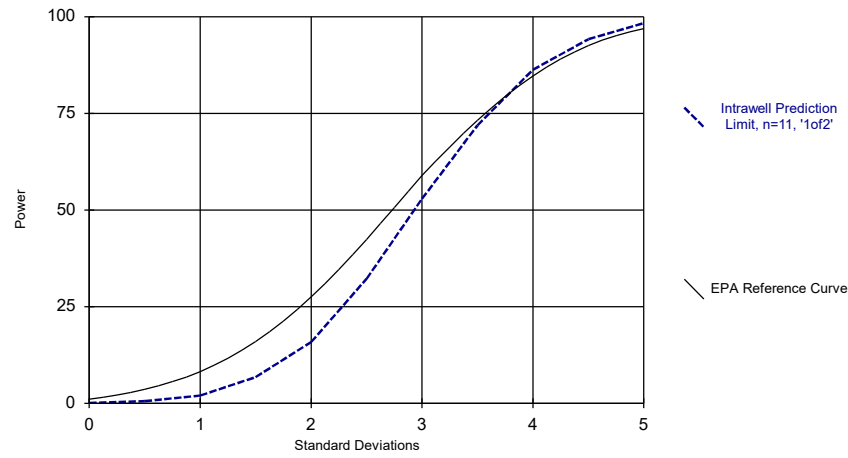


Andrew Collins
Project Manager



Easton Rayner
Groundwater Analyst

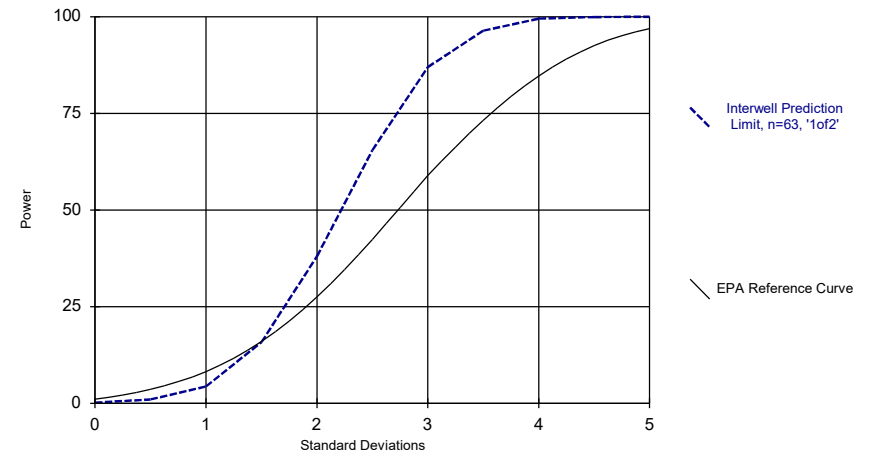
Intrawell Power Curve



Kappa = 2.915, based on 16 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

Analysis Run 7/14/2021 1:09 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Interwell Power Curve



Kappa = 2.124, based on 16 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

Analysis Run 7/14/2021 1:10 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

100% Non-Detects: Appendix IV Downgradient

Analysis Run 7/14/2021 12:20 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

Antimony (mg/L)

BY-AP-MW-1, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-14, BY-AP-MW-15, BY-AP-MW-16, BY-AP-MW-2, BY-AP-MW-3, BY-AP-MW-4, BY-AP-MW-6, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-9

Arsenic (mg/L)

BY-AP-MW-3

Beryllium (mg/L)

BY-AP-MW-1, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-14, BY-AP-MW-15, BY-AP-MW-16, BY-AP-MW-2, BY-AP-MW-3, BY-AP-MW-6, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-9

Cadmium (mg/L)

BY-AP-MW-1, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-14, BY-AP-MW-15, BY-AP-MW-16, BY-AP-MW-2, BY-AP-MW-3, BY-AP-MW-4, BY-AP-MW-6, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-9

Fluoride (mg/L)

BY-AP-MW-3, BY-AP-MW-4, BY-AP-MW-6

Lead (mg/L)

BY-AP-MW-1, BY-AP-MW-10, BY-AP-MW-13, BY-AP-MW-15, BY-AP-MW-2, BY-AP-MW-3, BY-AP-MW-7, BY-AP-MW-8

Lithium (mg/L)

BY-AP-MW-1, BY-AP-MW-10, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-16, BY-AP-MW-2, BY-AP-MW-3, BY-AP-MW-4, BY-AP-MW-6, BY-AP-MW-8, BY-AP-MW-9

Mercury (mg/L)

BY-AP-MW-1, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15, BY-AP-MW-16, BY-AP-MW-2, BY-AP-MW-3, BY-AP-MW-4, BY-AP-MW-6, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-9

Molybdenum (mg/L)

BY-AP-MW-10, BY-AP-MW-2, BY-AP-MW-3, BY-AP-MW-4

Selenium (mg/L)

BY-AP-MW-1, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15, BY-AP-MW-16, BY-AP-MW-2, BY-AP-MW-3, BY-AP-MW-4, BY-AP-MW-6, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-9

Thallium (mg/L)

BY-AP-MW-1, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-14, BY-AP-MW-15, BY-AP-MW-16, BY-AP-MW-2, BY-AP-MW-3, BY-AP-MW-4, BY-AP-MW-6, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-9

Intrawell Prediction Limits - Significant Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 7/8/2021, 11:22 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NB	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH, field (SU)	BY-AP-MW-12	6.282	6.038	5/18/2021	5.58	Yes	15	6.16	0.04675	0	None	No	0.0002351	Param Intra	1 of 2
pH, field (SU)	BY-AP-MW-13	6.183	6.001	5/19/2021	5.79	Yes	15	6.092	0.03468	0	None	No	0.0002351	Param Intra	1 of 2
pH, field (SU)	BY-AP-MW-14	6.215	5.954	5/25/2021	5.82	Yes	15	37.04	0.6078	0	None	x^2	0.0002351	Param Intra	1 of 2
pH, field (SU)	BY-GSA-MW-2	4.958	4.493	5/11/2021	4.29	Yes	14	4.726	0.08689	0	None	No	0.0002351	Param Intra	1 of 2
pH, field (SU)	BY-GSA-MW-3	5.095	4.729	5/11/2021	4.53	Yes	14	4.912	0.0683	0	None	No	0.0002351	Param Intra	1 of 2
Sulfate (mg/L)	BY-AP-MW-1	6.348	n/a	5/18/2021	16.5	Yes	13	52.17	74.33	46.15	Kaplan-Meier	x^3	0.0004702	Param Intra	1 of 2
Sulfate (mg/L)	BY-AP-MW-10	5	n/a	5/11/2021	13.2	Yes	13	n/a	n/a	69.23	n/a	n/a	0.009692	NP Intra (NDs)	1 of 2
Sulfate (mg/L)	BY-AP-MW-12	7.04	n/a	5/18/2021	25.1	Yes	12	n/a	n/a	75	n/a	n/a	0.01077	NP Intra (NDs)	1 of 2
Sulfate (mg/L)	BY-AP-MW-13	49.5	n/a	5/19/2021	50.4	Yes	13	n/a	n/a	38.46	n/a	n/a	0.009692	NP Intra (normality)	1 of 2
Sulfate (mg/L)	BY-AP-MW-15	6.2	n/a	5/11/2021	7.54	Yes	13	n/a	n/a	76.92	n/a	n/a	0.009692	NP Intra (NDs)	1 of 2
Sulfate (mg/L)	BY-AP-MW-8	6.01	n/a	5/11/2021	35.4	Yes	13	n/a	n/a	76.92	n/a	n/a	0.009692	NP Intra (NDs)	1 of 2
Sulfate (mg/L)	BY-AP-MW-9	5.91	n/a	5/18/2021	27.7	Yes	13	n/a	n/a	69.23	n/a	n/a	0.009692	NP Intra (NDs)	1 of 2

Intrawell Prediction Limits - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 7/8/2021, 11:22 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NB	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH, field (SU)	BY-AP-MW-1	5.947	5.708	5/18/2021	5.86	No	15	5.827	0.04574	0	None	No	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-10	6.413	6.194	5/11/2021	6.4	No	15	6.303	0.04186	0	None	No	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-11	6.407	6.129	5/19/2021	6.33	No	15	6.268	0.05294	0	None	No	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-12	6.282	6.038	5/18/2021	5.58	Yes	15	6.16	0.04675	0	None	No	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-13	6.183	6.001	5/19/2021	5.79	Yes	15	6.092	0.03468	0	None	No	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-14	6.215	5.954	5/25/2021	5.82	Yes	15	37.04	0.6078	0	None	x^2	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-15	6.831	6.476	5/11/2021	6.76	No	15	6.653	0.06789	0	None	No	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-16	5.936	5.675	5/19/2021	5.8	No	15	5.805	0.04998	0	None	No	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-2	6.156	5.437	5/18/2021	5.83	No	15	5.797	0.1375	0	None	No	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-3	5.327	4.816	5/18/2021	4.93	No	15	5.071	0.0976	0	None	No	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-4	5.362	4.114	5/18/2021	4.17	No	15	4.738	0.2385	0	None	No	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-6	5.627	5.125	5/17/2021	5.21	No	15	5.376	0.09605	0	None	No	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-7	6.419	6.16	5/18/2021	6.4	No	14	6.289	0.04843	0	None	No	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-8	6.288	6.104	5/11/2021	6.25	No	15	6.196	0.03521	0	None	No	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-9	6.383	6.124	5/18/2021	6.3	No	15	6.253	0.04938	0	None	No	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-GSA-MW-1	4.911	4.482	5/12/2021	4.74	No	14	4.696	0.08025	0	None	No	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-GSA-MW-2	4.958	4.493	5/11/2021	4.29	Yes	14	4.726	0.08689	0	None	No	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-GSA-MW-3	5.095	4.729	5/11/2021	4.53	Yes	14	4.912	0.0683	0	None	No	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-GSA-MW-4	5.043	4.641	5/11/2021	4.67	No	14	4.842	0.07516	0	None	No	No	0.0002351	Param Intra 1 of 2
Sulfate (mg/L)	BY-AP-MW-1	6.348	n/a	5/18/2021	16.5	Yes	13	52.17	74.33	46.15	Kaplan-Meier	x^3	No	0.0004702	Param Intra 1 of 2
Sulfate (mg/L)	BY-AP-MW-10	5	n/a	5/11/2021	13.2	Yes	13	n/a	n/a	69.23	n/a	n/a	No	0.009692	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	BY-AP-MW-11	19.37	n/a	5/19/2021	16.5	No	13	1.308	0.5028	46.15	Kaplan-Meier	x^(1/3)	No	0.0004702	Param Intra 1 of 2
Sulfate (mg/L)	BY-AP-MW-12	7.04	n/a	5/18/2021	25.1	Yes	12	n/a	n/a	75	n/a	n/a	No	0.01077	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	BY-AP-MW-13	49.5	n/a	5/19/2021	50.4	Yes	13	n/a	n/a	38.46	n/a	n/a	No	0.009692	NP Intra (normality) 1 of 2
Sulfate (mg/L)	BY-AP-MW-14	67.6	n/a	5/25/2021	59.2	No	13	n/a	n/a	69.23	n/a	n/a	No	0.009692	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	BY-AP-MW-15	6.2	n/a	5/11/2021	7.54	Yes	13	n/a	n/a	76.92	n/a	n/a	No	0.009692	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	BY-AP-MW-16	6.72	n/a	5/19/2021	3.11	No	13	n/a	n/a	69.23	n/a	n/a	No	0.009692	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	BY-AP-MW-2	3.3	n/a	5/18/2021	1ND	No	13	n/a	n/a	69.23	n/a	n/a	No	0.009692	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	BY-AP-MW-3	5	n/a	5/18/2021	0.883J	No	13	n/a	n/a	53.85	n/a	n/a	No	0.009692	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	BY-AP-MW-4	5.906	n/a	5/18/2021	4.43	No	13	2.804	1.132	7.692	None	No	No	0.0004702	Param Intra 1 of 2
Sulfate (mg/L)	BY-AP-MW-6	2.774	n/a	5/17/2021	0.981J	No	13	1.027	0.2332	30.77	Kaplan-Meier	sqrt(x)	No	0.0004702	Param Intra 1 of 2
Sulfate (mg/L)	BY-AP-MW-7	5	n/a	5/18/2021	4.6	No	12	n/a	n/a	50	n/a	n/a	No	0.01077	NP Intra (normality) 1 of 2
Sulfate (mg/L)	BY-AP-MW-8	6.01	n/a	5/11/2021	35.4	Yes	13	n/a	n/a	76.92	n/a	n/a	No	0.009692	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	BY-AP-MW-9	5.91	n/a	5/18/2021	27.7	Yes	13	n/a	n/a	69.23	n/a	n/a	No	0.009692	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	BY-GSA-MW-1	23.3	n/a	5/12/2021	16.3	No	12	n/a	n/a	0	n/a	n/a	No	0.01077	NP Intra (normality) 1 of 2
Sulfate (mg/L)	BY-GSA-MW-2	10.46	n/a	5/11/2021	7.92	No	11	6.358	1.408	0	None	No	No	0.0004702	Param Intra 1 of 2
Sulfate (mg/L)	BY-GSA-MW-3	9.409	n/a	5/11/2021	7.73	No	12	7.456	0.6976	0	None	No	No	0.0004702	Param Intra 1 of 2
Sulfate (mg/L)	BY-GSA-MW-4	8.668	n/a	5/11/2021	6.8	No	12	6.626	0.7293	0	None	No	No	0.0004702	Param Intra 1 of 2

Interwell Prediction Limits - Significant Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 7/8/2021, 11:18 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NB	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	BY-AP-MW-1	0.188	n/a	5/18/2021	1.99	Yes	63	n/a	n/a	n/a	80.95	n/a	n/a	0.000471	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-10	0.188	n/a	5/11/2021	1.99	Yes	63	n/a	n/a	n/a	80.95	n/a	n/a	0.000471	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-16	0.188	n/a	5/19/2021	1.74	Yes	63	n/a	n/a	n/a	80.95	n/a	n/a	0.000471	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-8	0.188	n/a	5/11/2021	0.971	Yes	63	n/a	n/a	n/a	80.95	n/a	n/a	0.000471	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-9	0.188	n/a	5/18/2021	2.08	Yes	63	n/a	n/a	n/a	80.95	n/a	n/a	0.000471	NP Inter (NDs) 1 of 2
Calcium (mg/L)	BY-AP-MW-1	2.09	n/a	5/18/2021	39.5	Yes	64	1.486	0.2843	0	None	No	No	0.0004702	Param Inter 1 of 2
Calcium (mg/L)	BY-AP-MW-10	2.09	n/a	5/11/2021	62.7	Yes	64	1.486	0.2843	0	None	No	No	0.0004702	Param Inter 1 of 2
Calcium (mg/L)	BY-AP-MW-11	2.09	n/a	5/19/2021	41.5	Yes	64	1.486	0.2843	0	None	No	No	0.0004702	Param Inter 1 of 2
Calcium (mg/L)	BY-AP-MW-12	2.09	n/a	5/18/2021	23.1	Yes	64	1.486	0.2843	0	None	No	No	0.0004702	Param Inter 1 of 2
Calcium (mg/L)	BY-AP-MW-13	2.09	n/a	5/19/2021	12.9	Yes	64	1.486	0.2843	0	None	No	No	0.0004702	Param Inter 1 of 2
Calcium (mg/L)	BY-AP-MW-14	2.09	n/a	5/25/2021	11.2	Yes	64	1.486	0.2843	0	None	No	No	0.0004702	Param Inter 1 of 2
Calcium (mg/L)	BY-AP-MW-15	2.09	n/a	5/11/2021	6.98	Yes	64	1.486	0.2843	0	None	No	No	0.0004702	Param Inter 1 of 2
Calcium (mg/L)	BY-AP-MW-16	2.09	n/a	5/19/2021	14.2	Yes	64	1.486	0.2843	0	None	No	No	0.0004702	Param Inter 1 of 2
Calcium (mg/L)	BY-AP-MW-2	2.09	n/a	5/18/2021	3.17	Yes	64	1.486	0.2843	0	None	No	No	0.0004702	Param Inter 1 of 2
Calcium (mg/L)	BY-AP-MW-7	2.09	n/a	5/18/2021	10.2	Yes	64	1.486	0.2843	0	None	No	No	0.0004702	Param Inter 1 of 2
Calcium (mg/L)	BY-AP-MW-8	2.09	n/a	5/11/2021	33	Yes	64	1.486	0.2843	0	None	No	No	0.0004702	Param Inter 1 of 2
Calcium (mg/L)	BY-AP-MW-9	2.09	n/a	5/18/2021	40.5	Yes	64	1.486	0.2843	0	None	No	No	0.0004702	Param Inter 1 of 2
Chloride (mg/L)	BY-AP-MW-1	9.9	n/a	5/18/2021	25.1	Yes	64	n/a	n/a	0	n/a	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
Chloride (mg/L)	BY-AP-MW-10	9.9	n/a	5/11/2021	27.3	Yes	64	n/a	n/a	0	n/a	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
Chloride (mg/L)	BY-AP-MW-11	9.9	n/a	5/19/2021	23.1	Yes	64	n/a	n/a	0	n/a	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
Chloride (mg/L)	BY-AP-MW-12	9.9	n/a	5/18/2021	25.4	Yes	64	n/a	n/a	0	n/a	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
Chloride (mg/L)	BY-AP-MW-13	9.9	n/a	5/19/2021	46.8	Yes	64	n/a	n/a	0	n/a	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
Chloride (mg/L)	BY-AP-MW-14	9.9	n/a	5/25/2021	52.1	Yes	64	n/a	n/a	0	n/a	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
Chloride (mg/L)	BY-AP-MW-15	9.9	n/a	5/11/2021	80	Yes	64	n/a	n/a	0	n/a	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
Chloride (mg/L)	BY-AP-MW-16	9.9	n/a	5/19/2021	21.4	Yes	64	n/a	n/a	0	n/a	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
Chloride (mg/L)	BY-AP-MW-7	9.9	n/a	5/18/2021	14.2	Yes	64	n/a	n/a	0	n/a	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
Chloride (mg/L)	BY-AP-MW-8	9.9	n/a	5/11/2021	21.9	Yes	64	n/a	n/a	0	n/a	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
Chloride (mg/L)	BY-AP-MW-9	9.9	n/a	5/18/2021	18.3	Yes	64	n/a	n/a	0	n/a	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BY-AP-MW-10	0.1	n/a	5/11/2021	0.105	Yes	68	n/a	n/a	50	n/a	n/a	n/a	0.0004064	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BY-AP-MW-15	0.1	n/a	5/11/2021	0.214	Yes	68	n/a	n/a	50	n/a	n/a	n/a	0.0004064	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BY-AP-MW-7	0.1	n/a	5/18/2021	0.11	Yes	68	n/a	n/a	50	n/a	n/a	n/a	0.0004064	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-1	58	n/a	5/18/2021	450	Yes	64	n/a	n/a	10.94	n/a	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-10	58	n/a	5/11/2021	391	Yes	64	n/a	n/a	10.94	n/a	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-11	58	n/a	5/19/2021	422	Yes	64	n/a	n/a	10.94	n/a	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-12	58	n/a	5/18/2021	332	Yes	64	n/a	n/a	10.94	n/a	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-13	58	n/a	5/19/2021	300	Yes	64	n/a	n/a	10.94	n/a	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-14	58	n/a	5/25/2021	318	Yes	64	n/a	n/a	10.94	n/a	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-15	58	n/a	5/11/2021	279	Yes	64	n/a	n/a	10.94	n/a	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-16	58	n/a	5/19/2021	274	Yes	64	n/a	n/a	10.94	n/a	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-7	58	n/a	5/18/2021	175	Yes	64	n/a	n/a	10.94	n/a	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-8	58	n/a	5/11/2021	318	Yes	64	n/a	n/a	10.94	n/a	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-9	58	n/a	5/18/2021	314	Yes	64	n/a	n/a	10.94	n/a	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 7/8/2021, 11:18 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NB	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
TDS (mg/L)	BY-AP-MW-2	58	n/a	5/18/2021	48.7	No	64	n/a	n/a	n/a	10.94	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-3	58	n/a	5/18/2021	38	No	64	n/a	n/a	n/a	10.94	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-4	58	n/a	5/18/2021	47.3	No	64	n/a	n/a	n/a	10.94	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-6	58	n/a	5/17/2021	46.7	No	64	n/a	n/a	n/a	10.94	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-7	58	n/a	5/18/2021	175	Yes	64	n/a	n/a	n/a	10.94	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-8	58	n/a	5/11/2021	318	Yes	64	n/a	n/a	n/a	10.94	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-9	58	n/a	5/18/2021	314	Yes	64	n/a	n/a	n/a	10.94	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2

Trend Test - Significant Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 7/14/2021, 1:00 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Boron (mg/L)	BY-AP-MW-10	0.1255	79	58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	BY-AP-MW-8	-0.1162	-85	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-10	2.598	84	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-12	0.5843	96	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-15	0.1966	64	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-7	0.545	106	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-8	-0.591	-74	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-GSA-MW-2 (bg)	0.1183	62	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-GSA-MW-3 (bg)	0.07545	59	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-GSA-MW-4 (bg)	0.122	78	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-10	1.83	106	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-12	0.5618	72	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-14	1.93	78	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-15	8.82	118	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-16	1.016	95	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-GSA-MW-2 (bg)	-0.4298	-75	-58	Yes	16	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	BY-AP-MW-10	0.01288	73	63	Yes	17	35.29	n/a	n/a	0.01	NP
Fluoride (mg/L)	BY-GSA-MW-2 (bg)	0.01436	65	63	Yes	17	41.18	n/a	n/a	0.01	NP
pH, field (SU)	BY-AP-MW-13	-0.03349	-89	-74	Yes	19	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-GSA-MW-2 (bg)	-0.06952	-94	-68	Yes	18	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-GSA-MW-3 (bg)	-0.0553	-82	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-AP-MW-1	2.18	81	63	Yes	17	35.29	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-AP-MW-12	2.194	60	58	Yes	16	56.25	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-AP-MW-8	0.4244	73	63	Yes	17	58.82	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-10	7.358	69	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-15	13.65	96	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-GSA-MW-1 (bg)	5.298	76	58	Yes	16	6.25	n/a	n/a	0.01	NP
TDS (mg/L)	BY-GSA-MW-2 (bg)	2.894	62	58	Yes	16	12.5	n/a	n/a	0.01	NP
TDS (mg/L)	BY-GSA-MW-4 (bg)	4.909	78	58	Yes	16	25	n/a	n/a	0.01	NP

Trend Test - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 7/14/2021, 1:00 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Boron (mg/L)	BY-AP-MW-1	0.04577	22	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	BY-AP-MW-10	0.1255	79	58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	BY-AP-MW-16	0.05246	58	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	BY-AP-MW-8	-0.1162	-85	-58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	BY-AP-MW-9	0.05144	36	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	BY-GSA-MW-1 (bg)	0	6	58	No	16	50	n/a	n/a	0.01	NP
Boron (mg/L)	BY-GSA-MW-2 (bg)	0	23	53	No	15	86.67	n/a	n/a	0.01	NP
Boron (mg/L)	BY-GSA-MW-3 (bg)	0	0	58	No	16	100	n/a	n/a	0.01	NP
Boron (mg/L)	BY-GSA-MW-4 (bg)	0	21	58	No	16	87.5	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-1	-0.04961	-4	-63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-10	2.598	84	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-11	-0.4695	-62	-63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-12	0.5843	96	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-13	0.1418	26	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-14	-0.1252	-13	-63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-15	0.1966	64	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-16	0.03631	6	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-2	-0.04006	-27	-63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-7	0.545	106	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-8	-0.591	-74	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-9	0.2067	22	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-GSA-MW-1 (bg)	0.07712	33	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-GSA-MW-2 (bg)	0.1183	62	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-GSA-MW-3 (bg)	0.07545	59	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-GSA-MW-4 (bg)	0.122	78	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-1	0.8077	38	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-10	1.83	106	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-11	0.5589	25	63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-12	0.5618	72	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-13	0.3366	6	63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-14	1.93	78	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-15	8.82	118	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-16	1.016	95	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-7	0.4829	54	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-8	0.2267	19	63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-9	-0.9028	-38	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-GSA-MW-1 (bg)	-0.03346	-3	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-GSA-MW-2 (bg)	-0.4298	-75	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-GSA-MW-3 (bg)	-0.04981	-40	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-GSA-MW-4 (bg)	-0.06007	-40	-58	No	16	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	BY-AP-MW-10	0.01288	73	63	Yes	17	35.29	n/a	n/a	0.01	NP
Fluoride (mg/L)	BY-AP-MW-15	0	-4	-63	No	17	5.882	n/a	n/a	0.01	NP
Fluoride (mg/L)	BY-AP-MW-7	0.005985	61	63	No	17	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	BY-GSA-MW-1 (bg)	0.009724	55	63	No	17	41.18	n/a	n/a	0.01	NP
Fluoride (mg/L)	BY-GSA-MW-2 (bg)	0.01436	65	63	Yes	17	41.18	n/a	n/a	0.01	NP
Fluoride (mg/L)	BY-GSA-MW-3 (bg)	1.6e-9	62	63	No	17	58.82	n/a	n/a	0.01	NP
Fluoride (mg/L)	BY-GSA-MW-4 (bg)	1.6e-9	62	63	No	17	58.82	n/a	n/a	0.01	NP
pH, field (SU)	BY-AP-MW-12	-0.01823	-35	-74	No	19	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-AP-MW-13	-0.03349	-89	-74	Yes	19	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-AP-MW-14	-0.02267	-40	-74	No	19	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-GSA-MW-1 (bg)	0	4	68	No	18	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-GSA-MW-2 (bg)	-0.06952	-94	-68	Yes	18	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-GSA-MW-3 (bg)	-0.0553	-82	-68	Yes	18	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-GSA-MW-4 (bg)	-0.03973	-61	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-AP-MW-1	2.18	81	63	Yes	17	35.29	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-AP-MW-10	0.6798	42	63	No	17	52.94	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-AP-MW-12	2.194	60	58	Yes	16	56.25	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-AP-MW-13	2.38	54	63	No	17	29.41	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-AP-MW-15	0	37	63	No	17	58.82	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-AP-MW-8	0.4244	73	63	Yes	17	58.82	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-AP-MW-9	0.34	42	63	No	17	52.94	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-GSA-MW-1 (bg)	2.216	38	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-GSA-MW-2 (bg)	-0.2594	-18	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-GSA-MW-3 (bg)	-0.07291	-12	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-GSA-MW-4 (bg)	-0.04665	-13	-58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-1	-4.154	-32	-63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-10	7.358	69	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-11	6.969	33	63	No	17	0	n/a	n/a	0.01	NP

Trend Test - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 7/14/2021, 1:00 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
TDS (mg/L)	BY-AP-MW-12	-3.211	-25	-63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-13	-3.593	-29	-63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-14	1.382	14	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-15	13.65	96	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-16	2.057	20	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-7	1.622	30	58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-8	-2.208	-23	-63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-9	-3.065	-30	-63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-GSA-MW-1 (bg)	5.298	76	58	Yes	16	6.25	n/a	n/a	0.01	NP
TDS (mg/L)	BY-GSA-MW-2 (bg)	2.894	62	58	Yes	16	12.5	n/a	n/a	0.01	NP
TDS (mg/L)	BY-GSA-MW-3 (bg)	2.208	50	58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-GSA-MW-4 (bg)	4.909	78	58	Yes	16	25	n/a	n/a	0.01	NP

Upper Tolerance Limits - Appendix IV

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 7/23/2020, 4:09 PM

Constituent	Upper Lim.	Lower Lim.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.003	n/a	52	n/a	n/a	90.38	n/a	n/a	0.06944	NP Inter(NDs)
Arsenic (mg/L)	0.005	n/a	52	n/a	n/a	100	n/a	n/a	0.06944	NP Inter(NDs)
Barium (mg/L)	0.183	n/a	52	n/a	n/a	0	n/a	n/a	0.06944	NP Inter(normal...
Beryllium (mg/L)	0.003	n/a	50	n/a	n/a	94	n/a	n/a	0.07694	NP Inter(NDs)
Cadmium (mg/L)	0.001	n/a	52	n/a	n/a	100	n/a	n/a	0.06944	NP Inter(NDs)
Chromium (mg/L)	0.01	n/a	52	n/a	n/a	96.15	n/a	n/a	0.06944	NP Inter(NDs)
Cobalt (mg/L)	0.0157	n/a	51	n/a	n/a	68.63	n/a	n/a	0.0731	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	3.202	n/a	52	0.9903	0.2355	0	None	x^(1/3)	0.05	Inter
Fluoride (mg/L)	0.1	n/a	56	n/a	n/a	39.29	n/a	n/a	0.05656	NP Inter(normal...
Lead (mg/L)	0.005	n/a	52	n/a	n/a	100	n/a	n/a	0.06944	NP Inter(NDs)
Lithium (mg/L)	0.02	n/a	52	n/a	n/a	100	n/a	n/a	0.06944	NP Inter(NDs)
Mercury (mg/L)	0.0005	n/a	52	n/a	n/a	100	n/a	n/a	0.06944	NP Inter(NDs)
Molybdenum (mg/L)	0.01	n/a	52	n/a	n/a	100	n/a	n/a	0.06944	NP Inter(NDs)
Selenium (mg/L)	0.01	n/a	52	n/a	n/a	100	n/a	n/a	0.06944	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	52	n/a	n/a	100	n/a	n/a	0.06944	NP Inter(NDs)

BARRY ASH POND GWPS			
Analyte	Units	Background	GWPS
Antimony	mg/L	0.003	0.006
Arsenic	mg/L	0.005	0.01
Barium	mg/L	0.183	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	0.0157	0.0157
Combined Radium-226/228	pCi/L	3.202	5
Fluoride	mg/L	0.1	4
Lead	mg/L	0.005	0.015
Lithium	mg/L	0.02	0.04
Mercury	mg/L	0.0005	0.002
Molybdenum	mg/L	0.01	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 2019.

Confidence Interval Summary Table - Significant Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 7/14/2021, 12:23 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Arsenic (mg/L)	BY-AP-MW-1	0.07727	0.05771	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-10	0.07736	0.05314	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-11	0.01651	0.01394	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-12	0.02444	0.02173	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-13	0.0175	0.0138	0.01	Yes	8	0	No	0.004	NP (normality)
Arsenic (mg/L)	BY-AP-MW-14	0.01732	0.01428	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-15	0.01941	0.01566	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-16	0.01411	0.01069	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-7	0.02274	0.01973	0.01	Yes	8	0	x^4	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-8	0.06276	0.05016	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-9	0.0437	0.0349	0.01	Yes	8	0	No	0.004	NP (normality)
Cobalt (mg/L)	BY-AP-MW-15	0.03666	0.02931	0.0157	Yes	8	0	No	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-7	0.01955	0.0166	0.0157	Yes	8	0	No	0.01	Param.

Confidence Interval Summary Table - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 7/14/2021, 12:23 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	BY-AP-MW-13	0.001015	0.001015	0.006	No	8	100	No	0.004	NP (NDs)
Arsenic (mg/L)	BY-AP-MW-1	0.07727	0.05771	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-10	0.07736	0.05314	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-11	0.01651	0.01394	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-12	0.02444	0.02173	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-13	0.0175	0.0138	0.01	Yes	8	0	No	0.004	NP (normality)
Arsenic (mg/L)	BY-AP-MW-14	0.01732	0.01428	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-15	0.01941	0.01566	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-16	0.01411	0.01069	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-2	0.001683	0.001377	0.01	No	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-4	0.0025	0.000125	0.01	No	8	87.5	No	0.004	NP (NDs)
Arsenic (mg/L)	BY-AP-MW-6	0.0025	0.000103	0.01	No	8	87.5	No	0.004	NP (NDs)
Arsenic (mg/L)	BY-AP-MW-7	0.02274	0.01973	0.01	Yes	8	0	x^4	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-8	0.06276	0.05016	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-9	0.0437	0.0349	0.01	Yes	8	0	No	0.004	NP (normality)
Barium (mg/L)	BY-AP-MW-1	0.339	0.271	2	No	8	0	No	0.004	NP (normality)
Barium (mg/L)	BY-AP-MW-10	0.0764	0.0648	2	No	8	0	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-11	0.09914	0.07028	2	No	8	0	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-12	0.08638	0.07587	2	No	8	0	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-13	0.0817	0.0688	2	No	8	0	No	0.004	NP (normality)
Barium (mg/L)	BY-AP-MW-14	0.0745	0.0589	2	No	8	0	No	0.004	NP (normality)
Barium (mg/L)	BY-AP-MW-15	0.07276	0.05269	2	No	8	0	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-16	0.09609	0.07753	2	No	8	0	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-2	0.02735	0.02335	2	No	8	0	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-3	0.03953	0.0334	2	No	8	0	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-4	0.02854	0.01591	2	No	8	0	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-6	0.02874	0.02358	2	No	8	0	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-7	0.07042	0.05771	2	No	8	0	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-8	0.1496	0.1344	2	No	8	0	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-9	0.1246	0.1144	2	No	8	0	No	0.01	Param.
Beryllium (mg/L)	BY-AP-MW-13	0.001015	0.001015	0.004	No	8	100	No	0.004	NP (NDs)
Beryllium (mg/L)	BY-AP-MW-4	0.001015	0.00071	0.004	No	8	87.5	No	0.004	NP (NDs)
Cadmium (mg/L)	BY-AP-MW-13	0.000203	0.000203	0.005	No	8	100	No	0.004	NP (NDs)
Chromium (mg/L)	BY-AP-MW-1	0.003982	0.002225	0.1	No	8	0	No	0.01	Param.
Chromium (mg/L)	BY-AP-MW-10	0.01	0.000685	0.1	No	8	87.5	No	0.004	NP (NDs)
Chromium (mg/L)	BY-AP-MW-11	0.003139	0.002131	0.1	No	8	0	No	0.01	Param.
Chromium (mg/L)	BY-AP-MW-12	0.00605	0.00325	0.1	No	8	0	No	0.004	NP (normality)
Chromium (mg/L)	BY-AP-MW-13	0.008739	0.006453	0.1	No	8	0	No	0.01	Param.
Chromium (mg/L)	BY-AP-MW-14	0.005547	0.00421	0.1	No	8	0	No	0.01	Param.
Chromium (mg/L)	BY-AP-MW-15	0.01	0.000581	0.1	No	8	87.5	No	0.004	NP (NDs)
Chromium (mg/L)	BY-AP-MW-16	0.01	0.00162	0.1	No	8	75	No	0.004	NP (NDs)
Chromium (mg/L)	BY-AP-MW-2	0.01	0.000394	0.1	No	8	87.5	No	0.004	NP (NDs)
Chromium (mg/L)	BY-AP-MW-3	0.01	0.000919	0.1	No	8	87.5	No	0.004	NP (NDs)
Chromium (mg/L)	BY-AP-MW-4	0.01	0.000544	0.1	No	8	87.5	No	0.004	NP (NDs)
Chromium (mg/L)	BY-AP-MW-6	0.01	0.000313	0.1	No	8	87.5	No	0.004	NP (NDs)
Chromium (mg/L)	BY-AP-MW-7	0.01	0.00328	0.1	No	8	75	No	0.004	NP (NDs)
Chromium (mg/L)	BY-AP-MW-8	0.01	0.00156	0.1	No	8	87.5	No	0.004	NP (NDs)
Chromium (mg/L)	BY-AP-MW-9	0.01	0.00078	0.1	No	8	87.5	No	0.004	NP (NDs)
Cobalt (mg/L)	BY-AP-MW-1	0.005	0.000996	0.0157	No	8	87.5	No	0.004	NP (NDs)
Cobalt (mg/L)	BY-AP-MW-10	0.005	0.000636	0.0157	No	8	87.5	No	0.004	NP (NDs)
Cobalt (mg/L)	BY-AP-MW-11	0.005	0.00257	0.0157	No	8	87.5	No	0.004	NP (NDs)
Cobalt (mg/L)	BY-AP-MW-12	0.003529	0.002631	0.0157	No	8	0	No	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-13	0.005	0.00113	0.0157	No	8	87.5	No	0.004	NP (NDs)
Cobalt (mg/L)	BY-AP-MW-14	0.005	0.00124	0.0157	No	8	87.5	No	0.004	NP (NDs)
Cobalt (mg/L)	BY-AP-MW-15	0.03666	0.02931	0.0157	Yes	8	0	No	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-16	0.02038	0.01378	0.0157	No	8	0	x^4	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-2	0.00757	0.006428	0.0157	No	8	0	No	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-3	0.005	0.000196	0.0157	No	8	87.5	No	0.004	NP (NDs)
Cobalt (mg/L)	BY-AP-MW-4	0.01362	0.00208	0.0157	No	8	25	x^(1/3)	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-6	0.005	0.000678	0.0157	No	8	87.5	No	0.004	NP (NDs)
Cobalt (mg/L)	BY-AP-MW-7	0.01955	0.0166	0.0157	Yes	8	0	No	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-8	0.005	0.000778	0.0157	No	8	87.5	No	0.004	NP (NDs)
Cobalt (mg/L)	BY-AP-MW-9	0.005	0.000725	0.0157	No	8	87.5	No	0.004	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-1	2.754	1.414	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-10	1.094	0.252	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-11	1.101	0.3429	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-12	1.55	0.759	5	No	8	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-13	1.082	0.6379	5	No	8	0	No	0.01	Param.

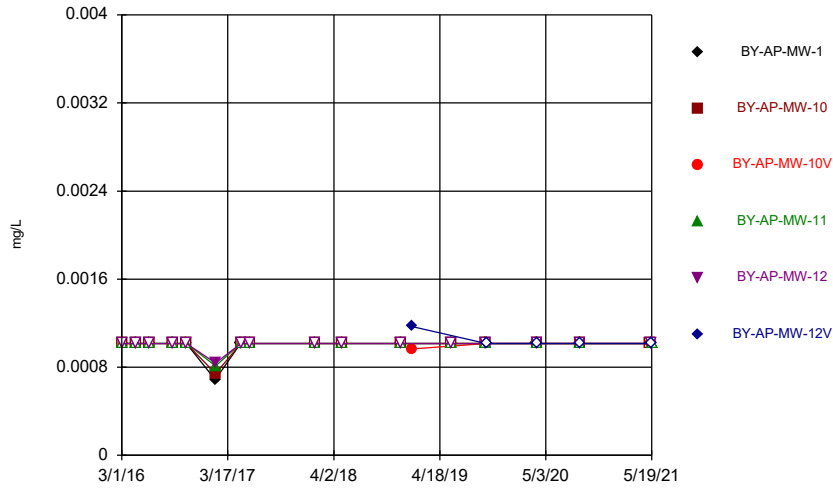
Confidence Interval Summary Table - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 7/14/2021, 12:23 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-14	0.9902	0.2738	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-15	0.8922	0.3436	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-16	1.308	0.3189	5	No	8	0	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-2	0.881	0.1655	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-3	1.515	0.2348	5	No	8	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-4	0.8562	0.2177	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-6	1.291	-0.06023	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-7	0.6993	0.3021	5	No	8	0	x^2	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-8	0.7159	0.4263	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-9	1.064	0.6885	5	No	8	0	No	0.01	Param.
Fluoride (mg/L)	BY-AP-MW-1	0.1315	0.04961	4	No	8	12.5	x^(1/3)	0.01	Param.
Fluoride (mg/L)	BY-AP-MW-10	0.105	0.0573	4	No	8	62.5	No	0.004	NP (NDs)
Fluoride (mg/L)	BY-AP-MW-11	0.0892	0.05598	4	No	8	0	No	0.01	Param.
Fluoride (mg/L)	BY-AP-MW-12	0.07827	0.04855	4	No	8	0	No	0.01	Param.
Fluoride (mg/L)	BY-AP-MW-13	0.07582	0.05798	4	No	8	0	No	0.01	Param.
Fluoride (mg/L)	BY-AP-MW-14	0.09535	0.07082	4	No	8	0	No	0.01	Param.
Fluoride (mg/L)	BY-AP-MW-15	0.2007	0.1728	4	No	8	0	No	0.01	Param.
Fluoride (mg/L)	BY-AP-MW-16	0.07673	0.05167	4	No	8	25	No	0.01	Param.
Fluoride (mg/L)	BY-AP-MW-2	0.1	0.1	4	No	8	100	No	0.004	NP (NDs)
Fluoride (mg/L)	BY-AP-MW-7	0.1065	0.07815	4	No	8	0	No	0.01	Param.
Fluoride (mg/L)	BY-AP-MW-8	0.1	0.04	4	No	8	25	No	0.004	NP (normality)
Fluoride (mg/L)	BY-AP-MW-9	0.07817	0.04958	4	No	8	0	No	0.01	Param.
Lead (mg/L)	BY-AP-MW-11	0.000203	0.000102	0.015	No	8	87.5	No	0.004	NP (NDs)
Lead (mg/L)	BY-AP-MW-12	0.000326	0.000203	0.015	No	8	87.5	No	0.004	NP (NDs)
Lead (mg/L)	BY-AP-MW-14	0.000203	0.0000764	0.015	No	8	87.5	No	0.004	NP (NDs)
Lead (mg/L)	BY-AP-MW-16	0.000203	0.000191	0.015	No	8	87.5	No	0.004	NP (NDs)
Lead (mg/L)	BY-AP-MW-4	0.000203	0.00013	0.015	No	8	87.5	No	0.004	NP (NDs)
Lead (mg/L)	BY-AP-MW-6	0.003528	0.001336	0.015	No	8	37.5	sqrt(x)	0.01	Param.
Lead (mg/L)	BY-AP-MW-9	0.00108	0.000203	0.015	No	8	87.5	No	0.004	NP (NDs)
Lithium (mg/L)	BY-AP-MW-11	0.03375	0.01099	0.04	No	8	25	No	0.01	Param.
Lithium (mg/L)	BY-AP-MW-15	0.02443	0.01105	0.04	No	8	37.5	No	0.01	Param.
Lithium (mg/L)	BY-AP-MW-7	0.0882	0.0102	0.04	No	8	62.5	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-11	0.01	0.000106	0.1	No	8	87.5	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-11	0.01	0.00652	0.1	No	8	87.5	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-12	0.01	0.000947	0.1	No	8	87.5	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-13	0.01	0.000437	0.1	No	8	87.5	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-14	0.01	0.000701	0.1	No	8	87.5	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-15	0.01	0.00171	0.1	No	8	62.5	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-16	0.01	0.000136	0.1	No	8	87.5	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-6	0.01	0.000117	0.1	No	8	87.5	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-7	0.01	0.000214	0.1	No	8	87.5	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-8	0.01	0.000321	0.1	No	8	87.5	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-9	0.01	0.00022	0.1	No	8	87.5	No	0.004	NP (NDs)
Thallium (mg/L)	BY-AP-MW-13	0.000203	0.000203	0.002	No	8	100	No	0.004	NP (NDs)

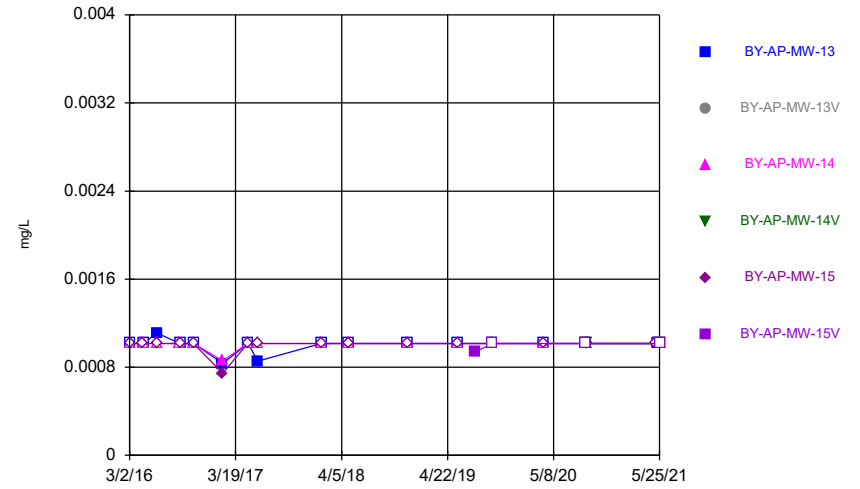
FIGURE A.

Time Series



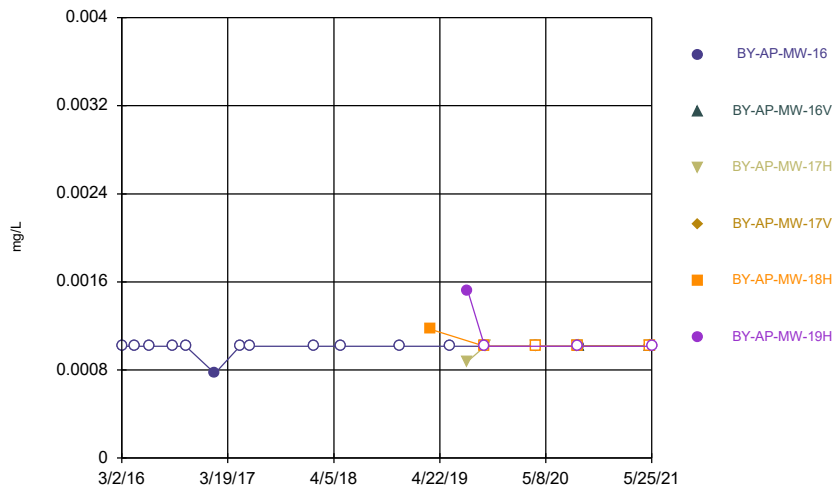
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Time Series



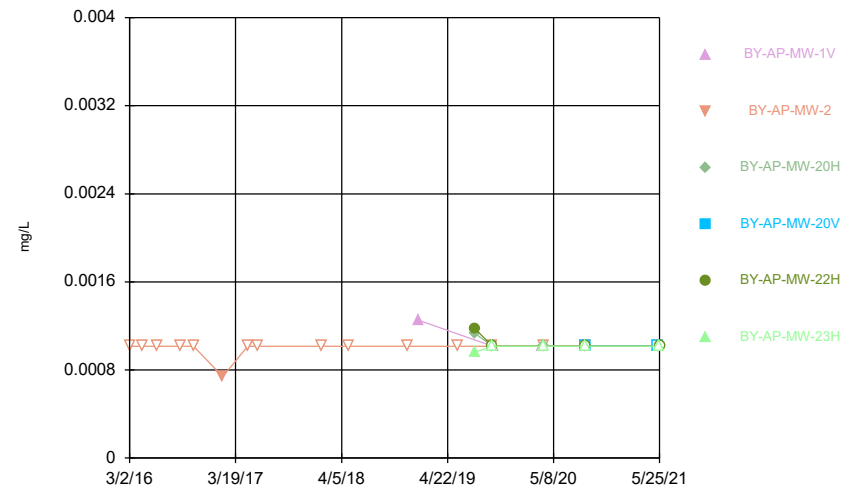
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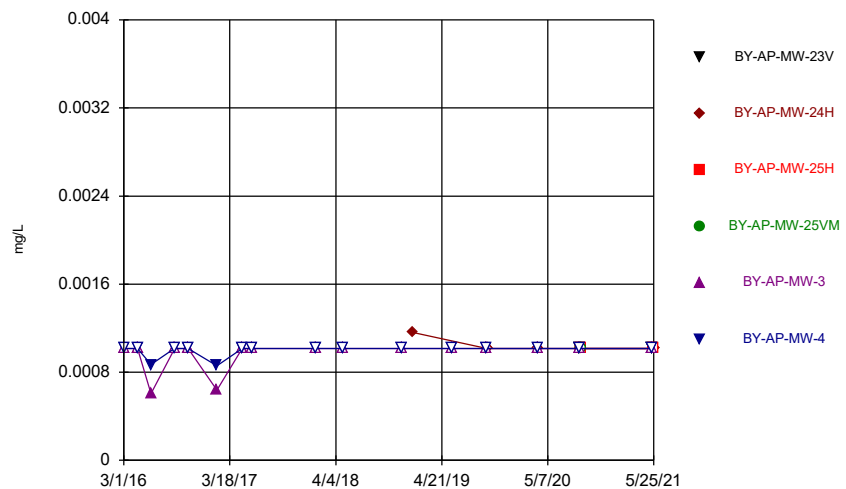
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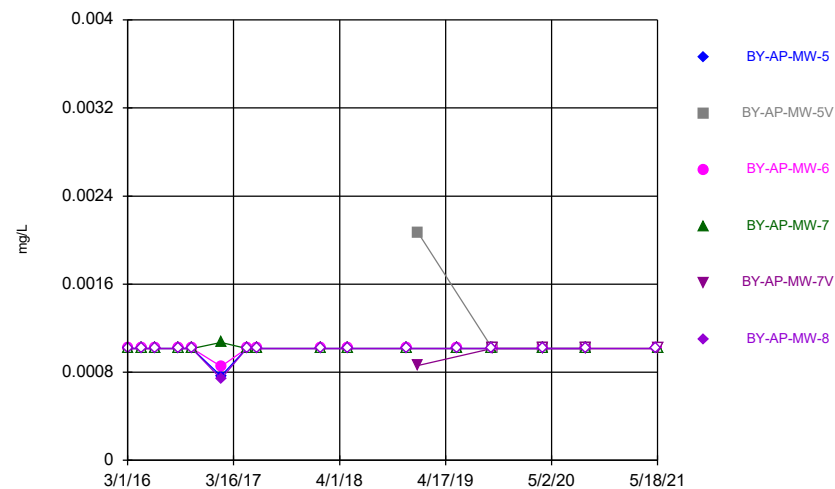
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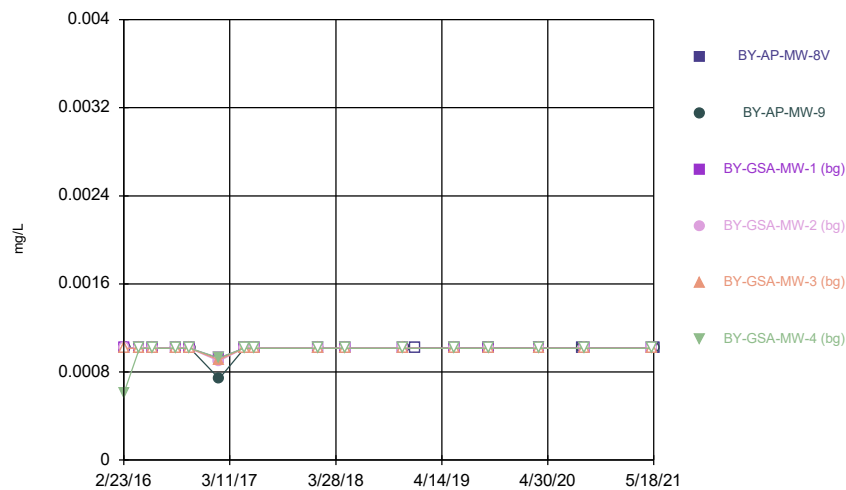
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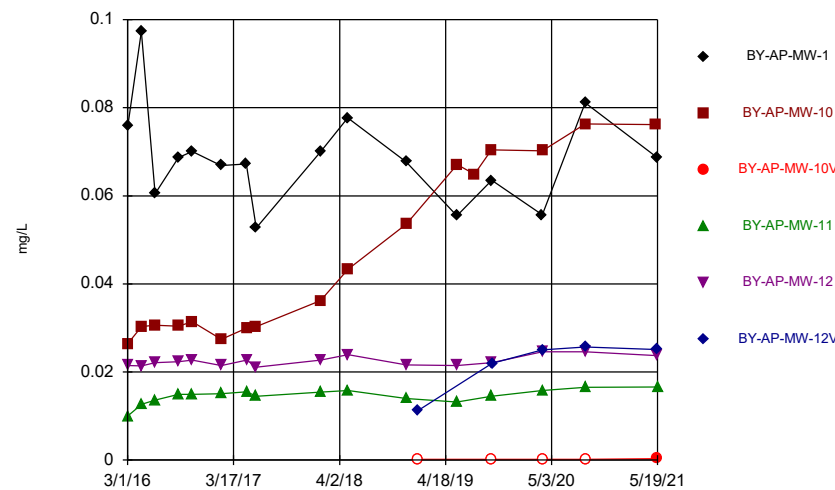
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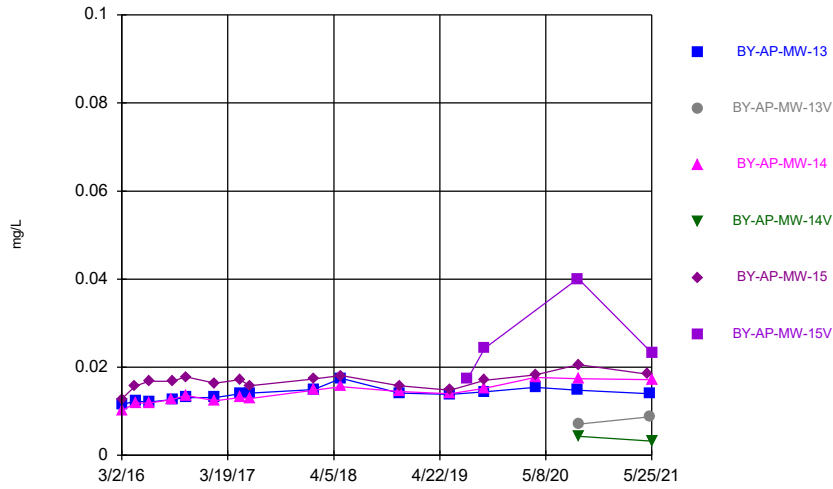
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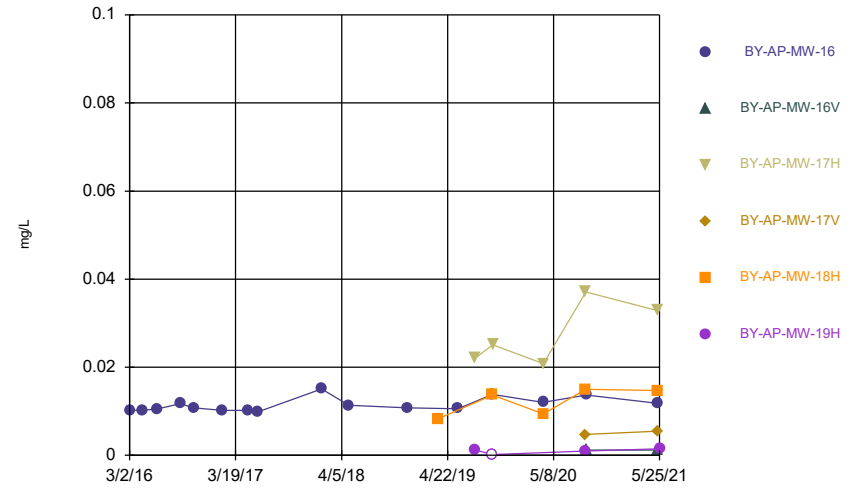
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Time Series



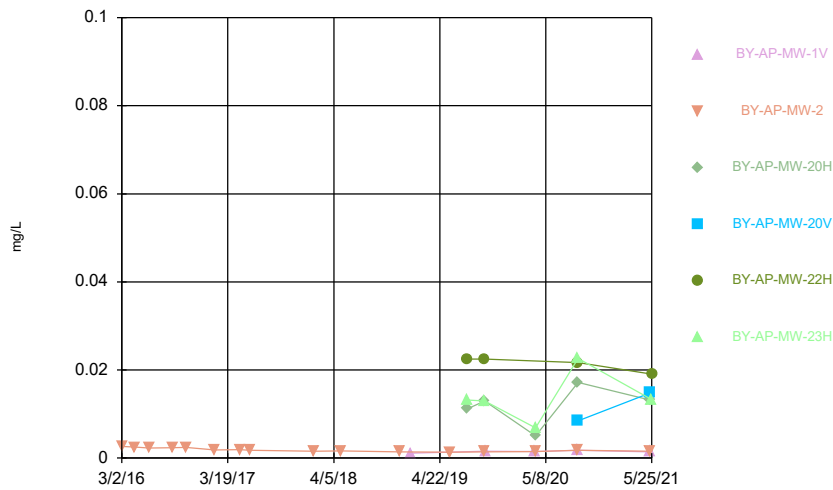
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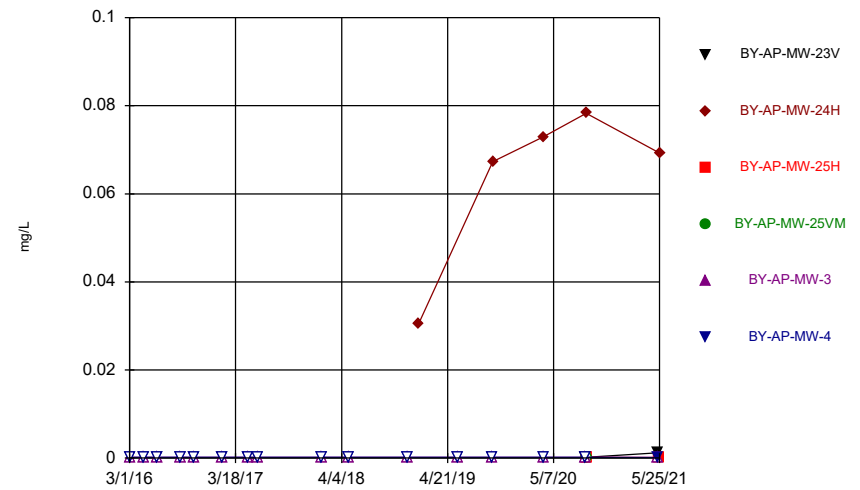
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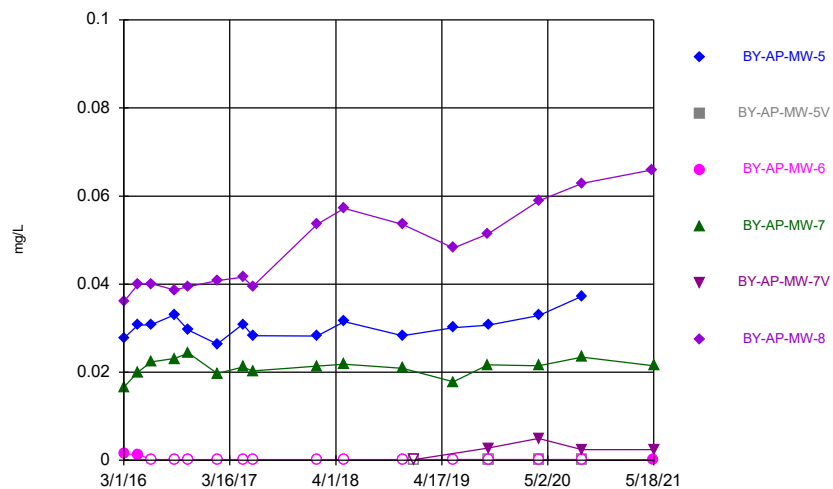
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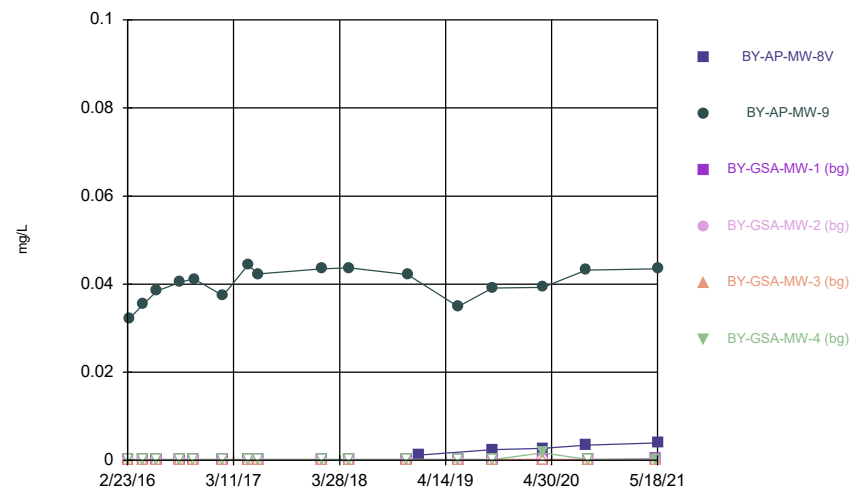
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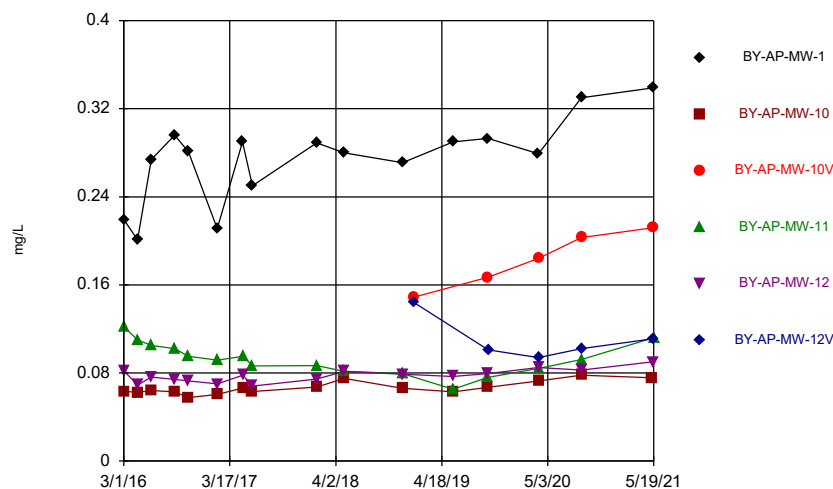
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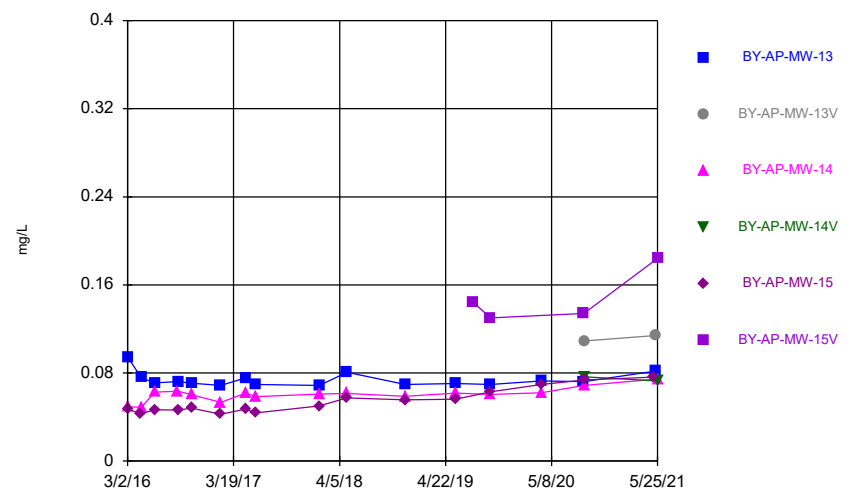
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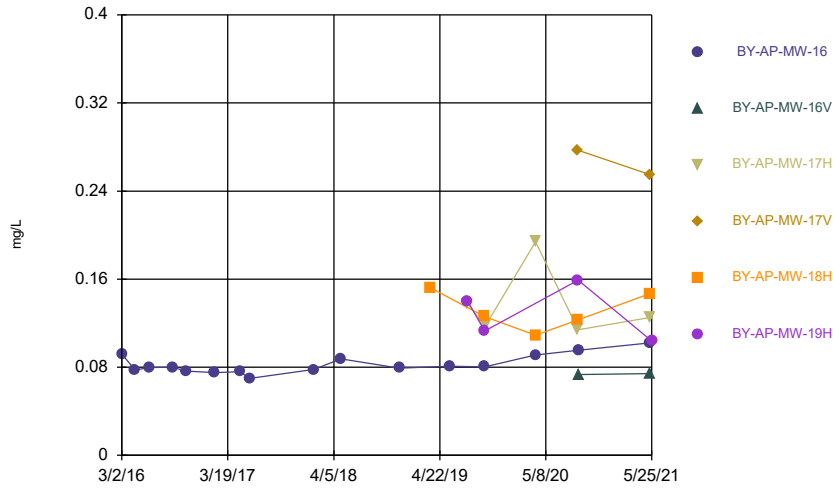
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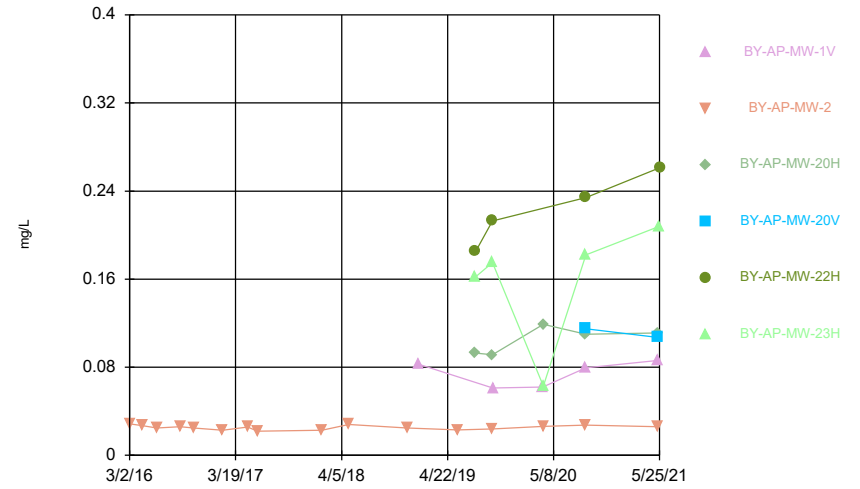
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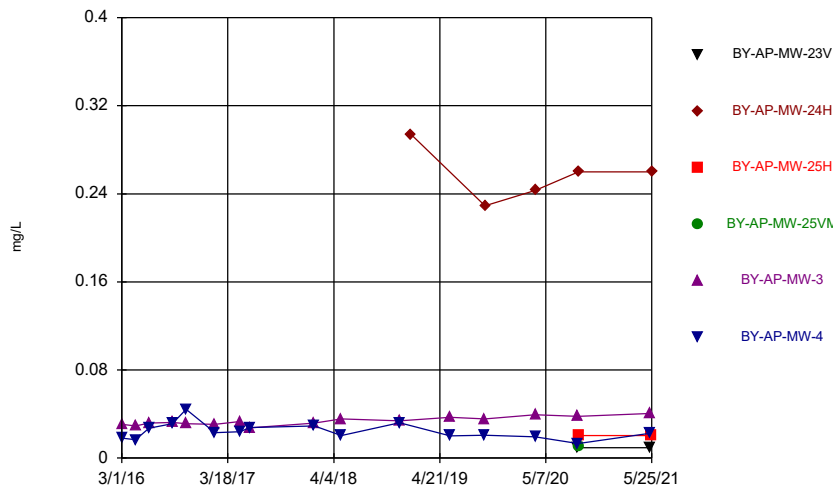
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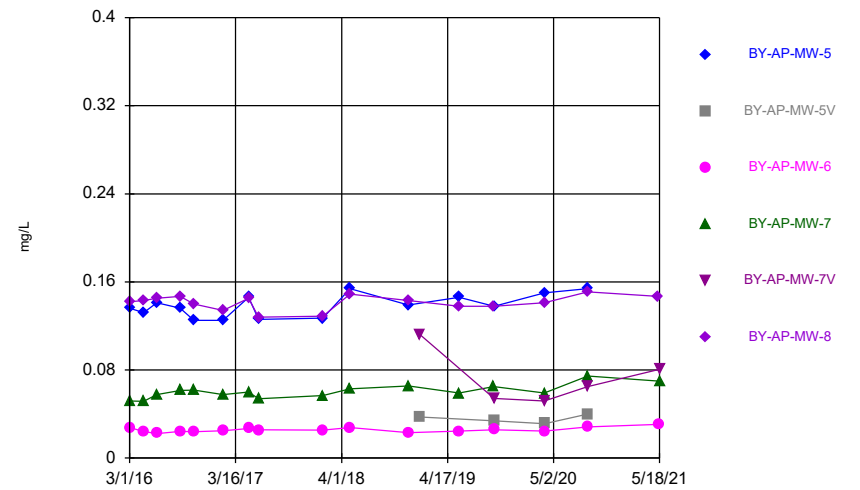
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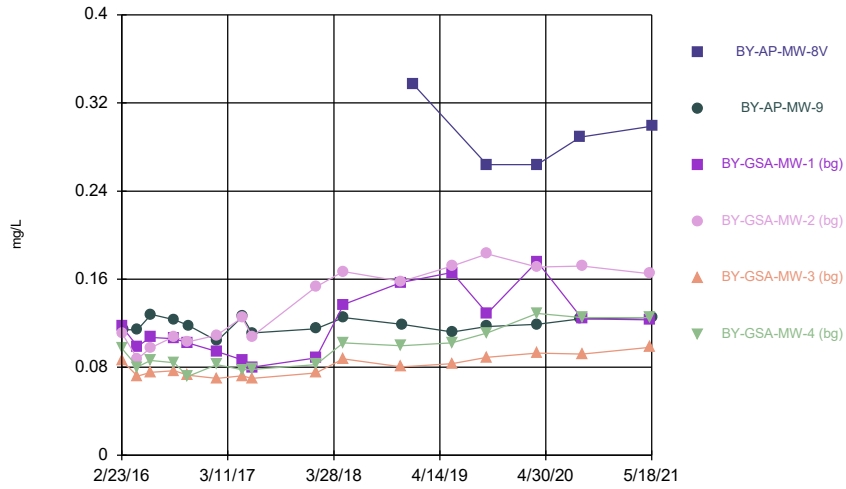
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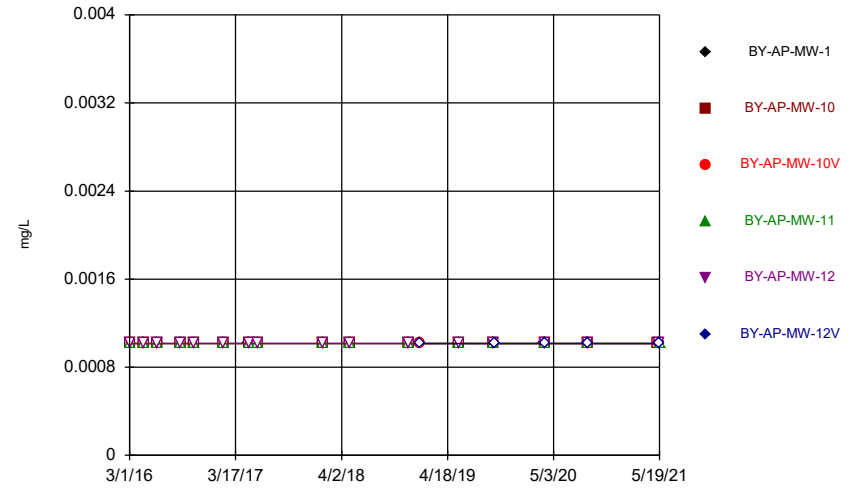
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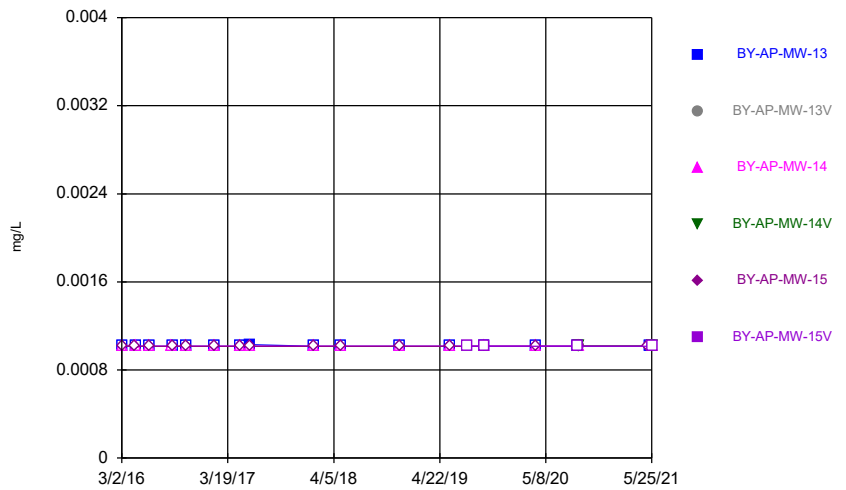
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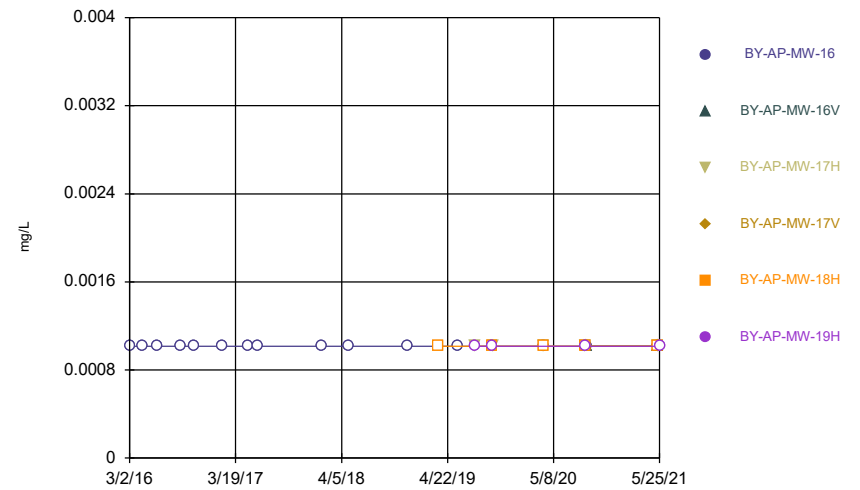
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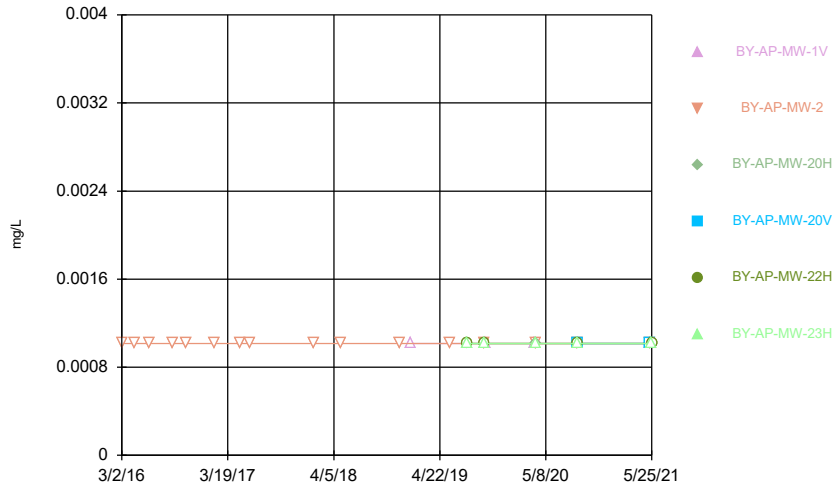
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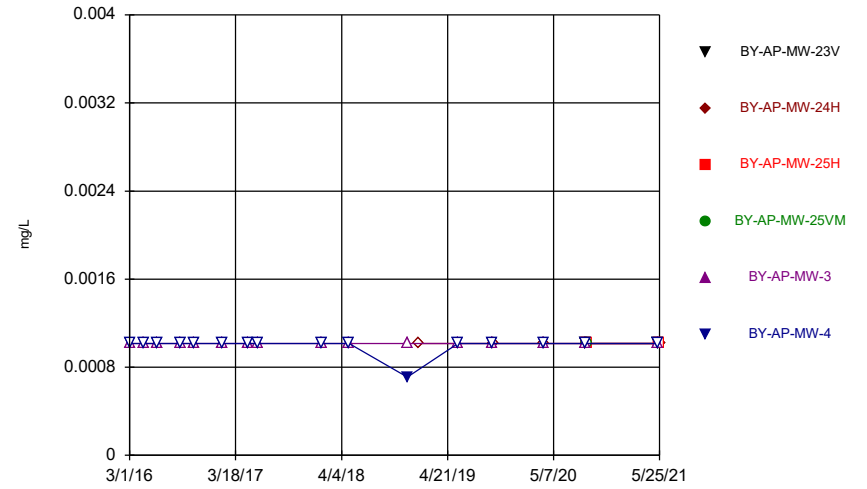
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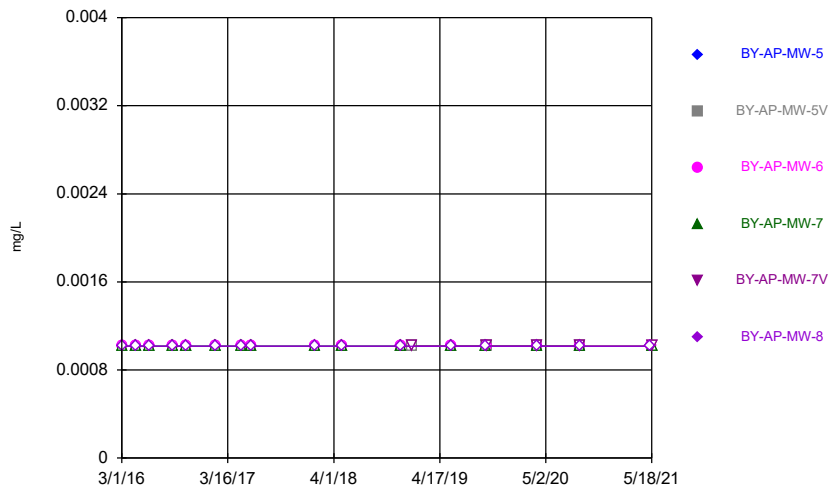
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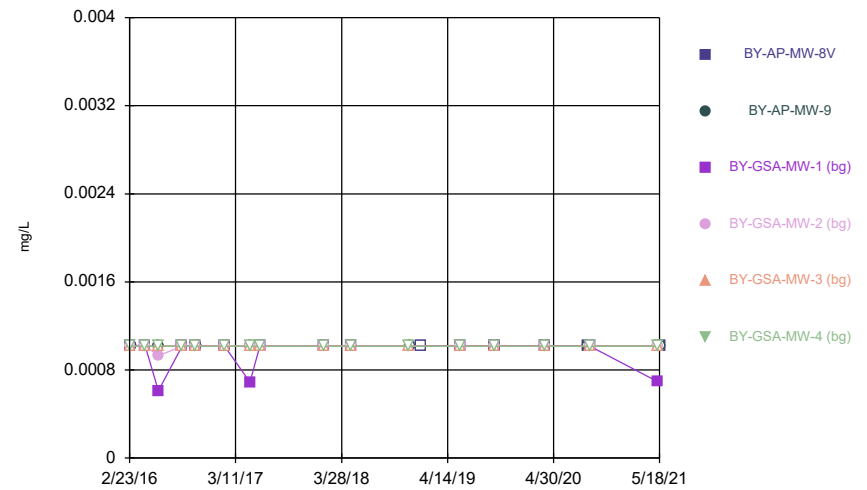
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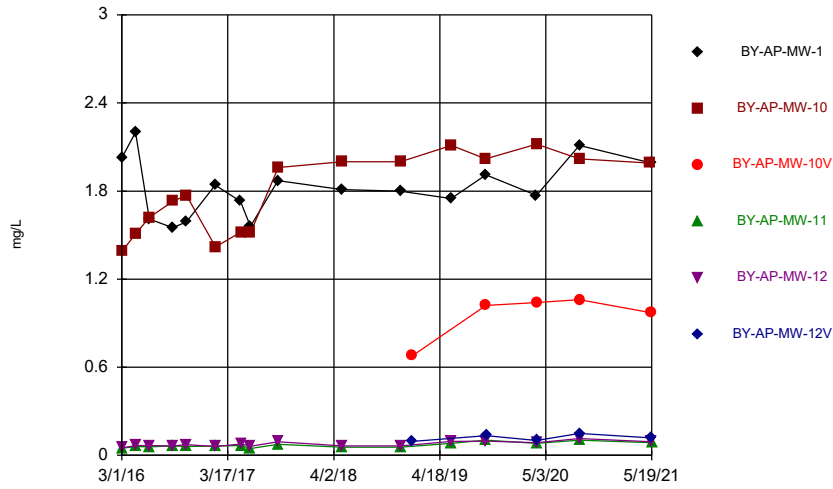
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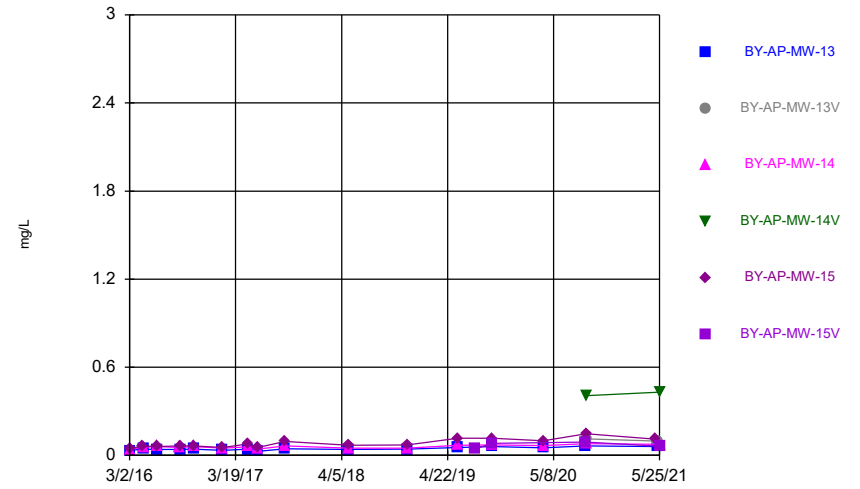
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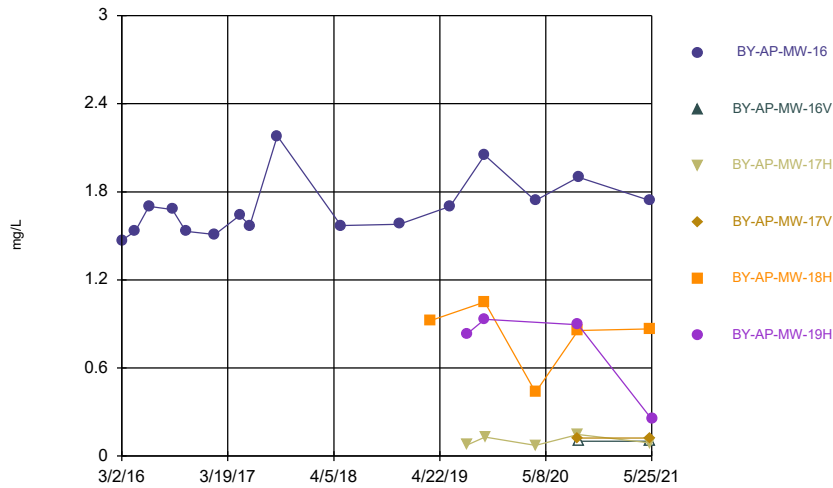
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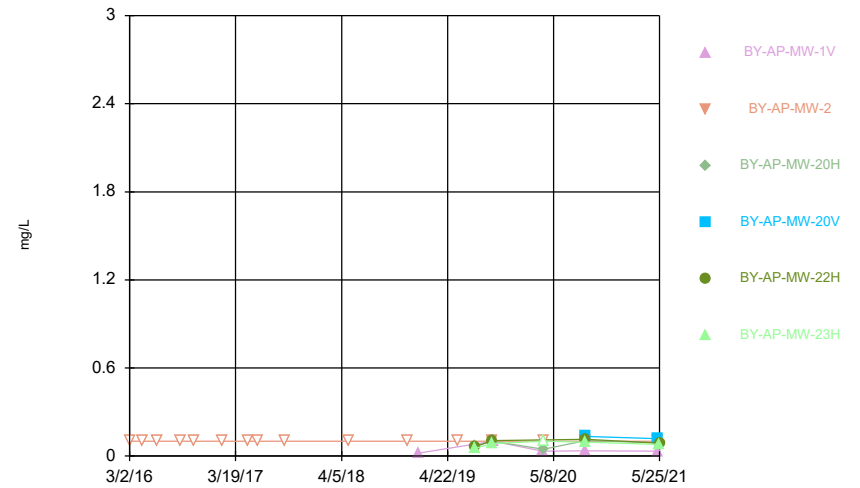
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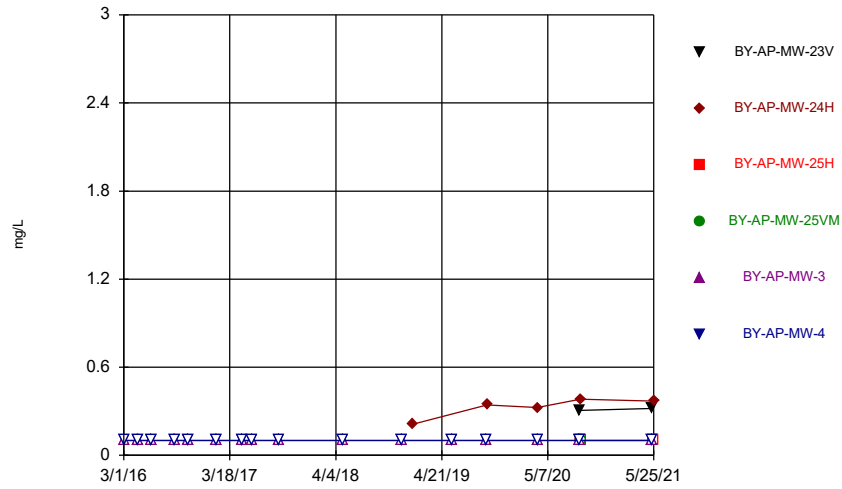
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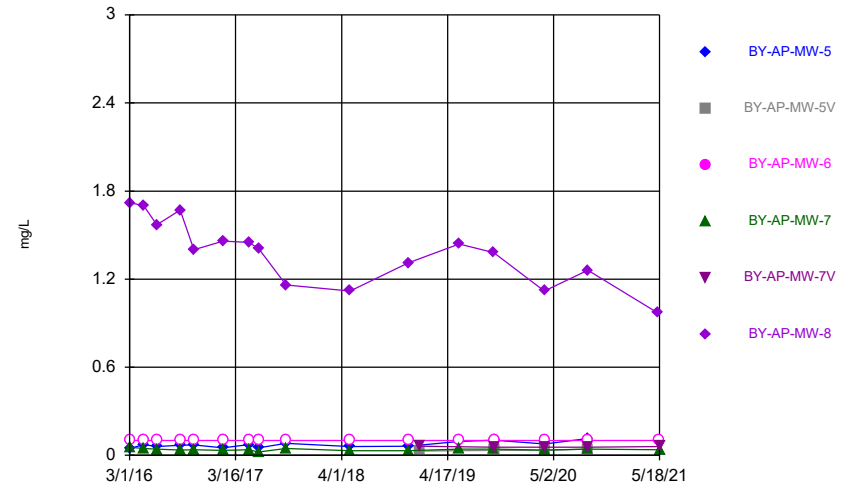
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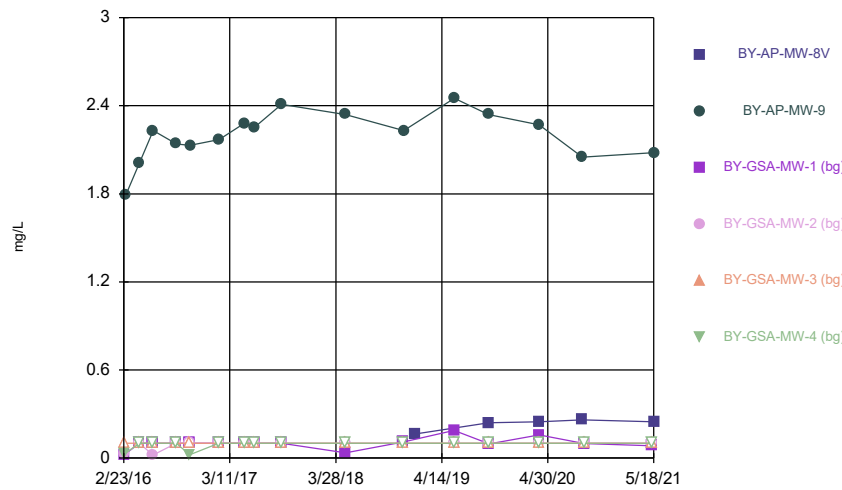
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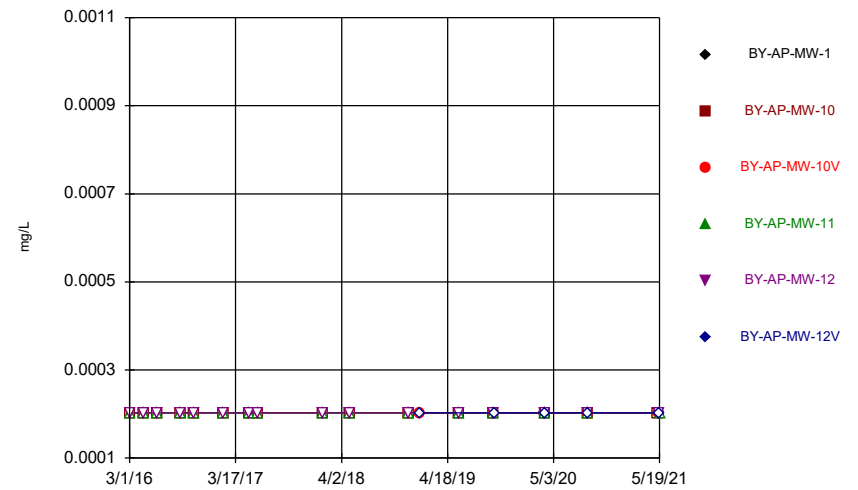
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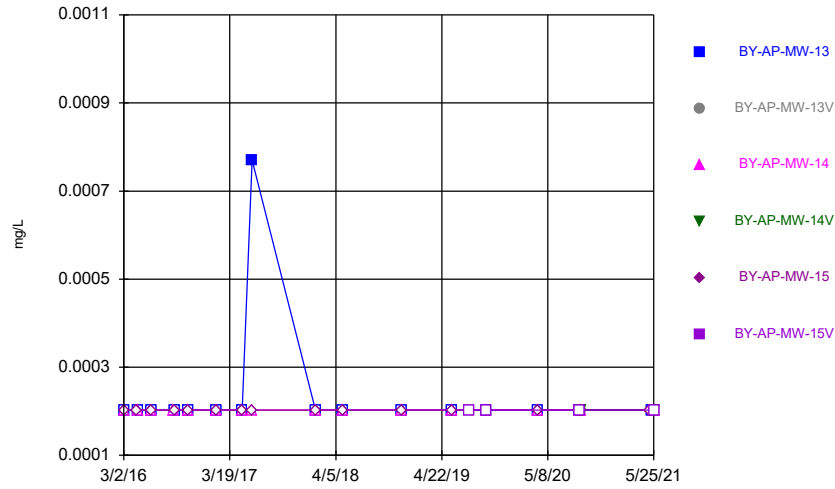
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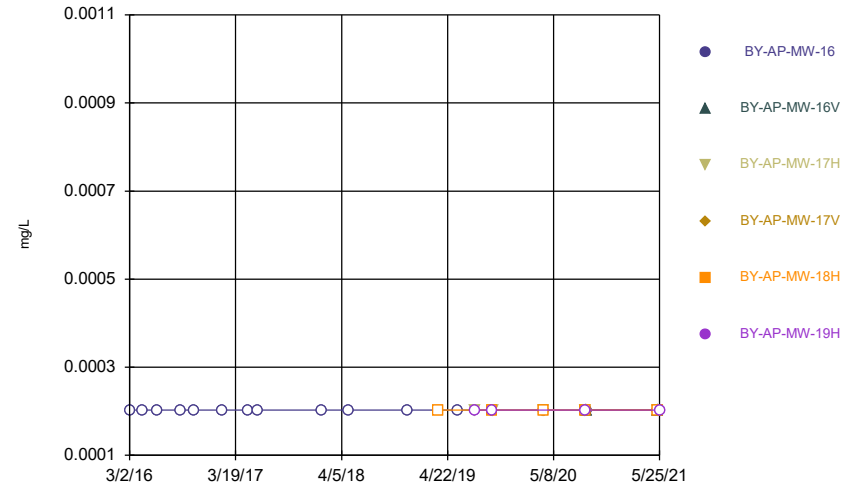
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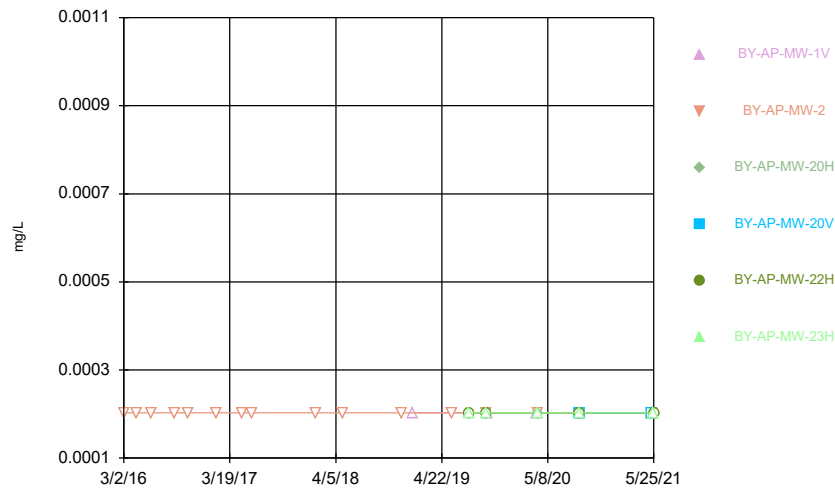
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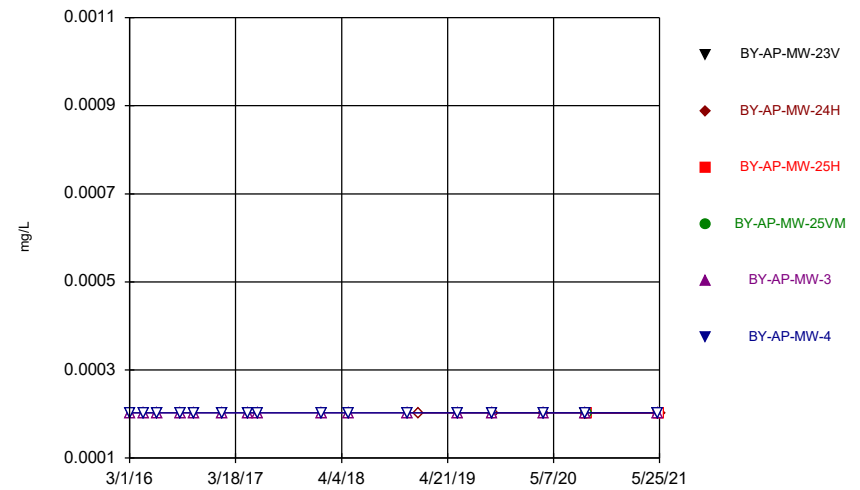
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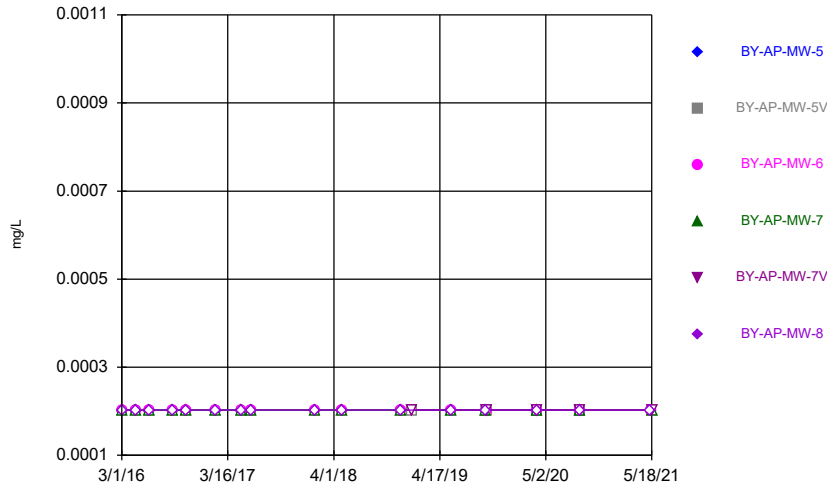
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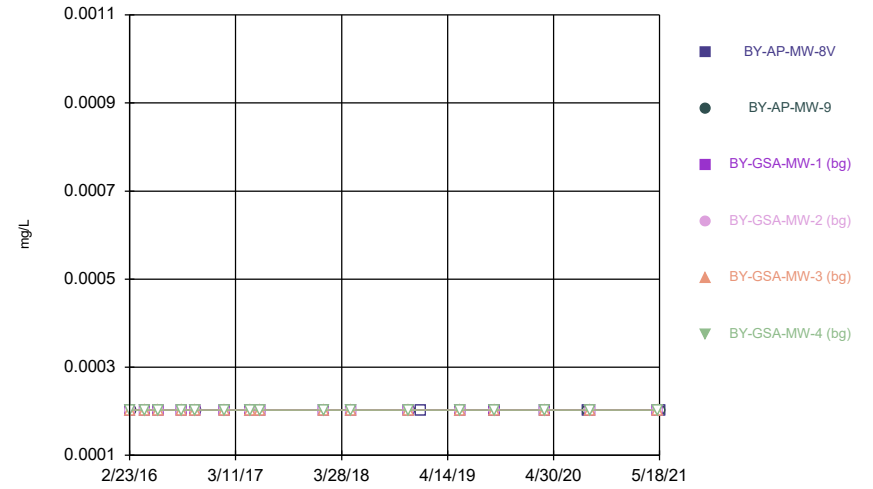
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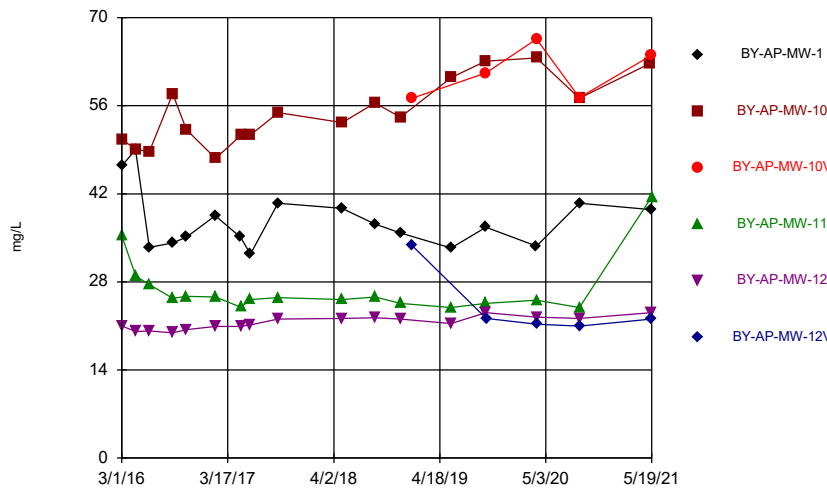
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Time Series



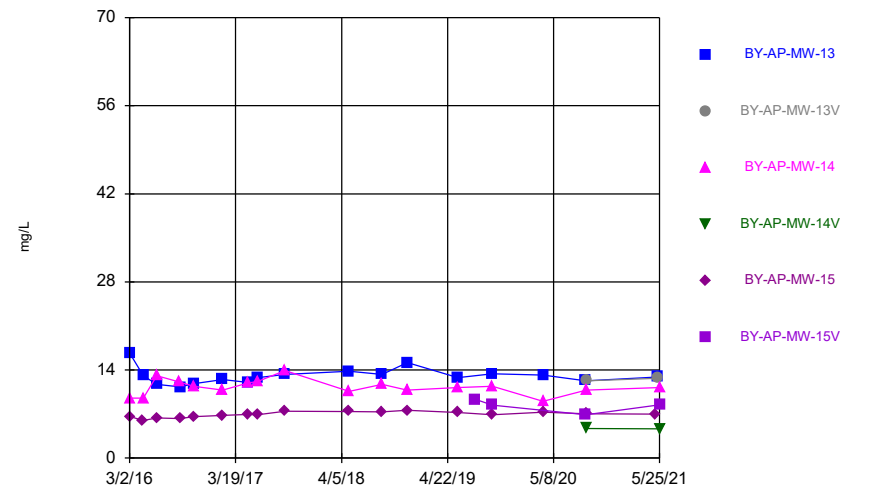
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



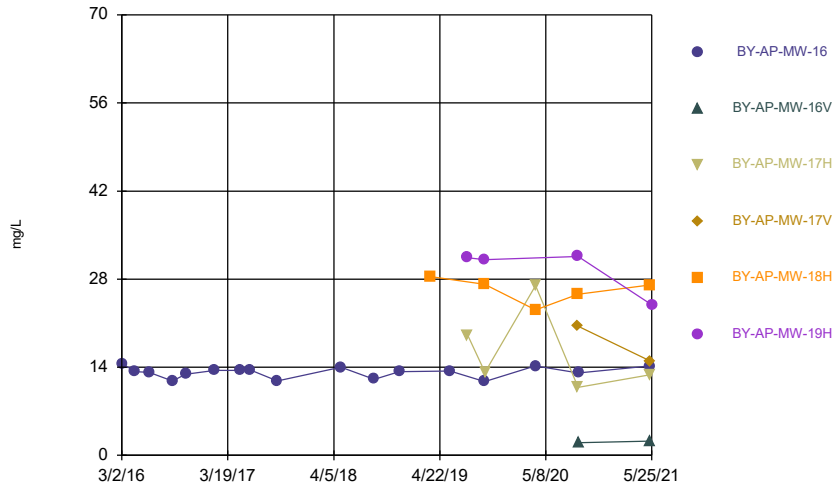
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



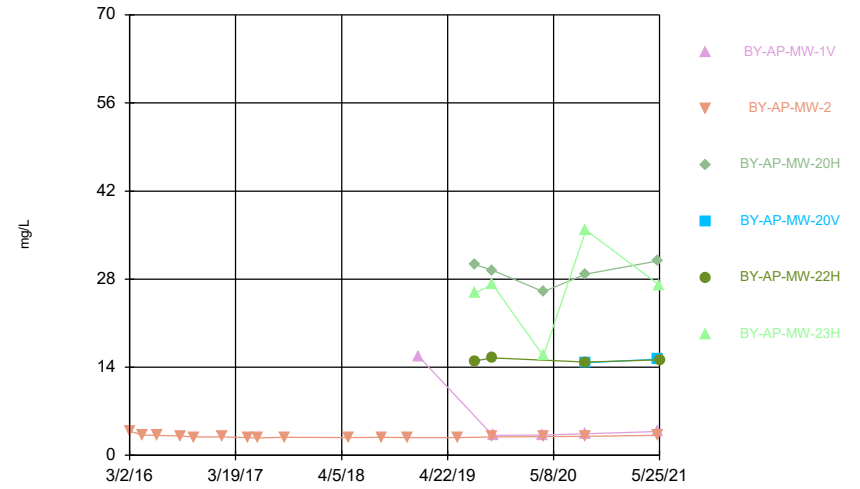
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



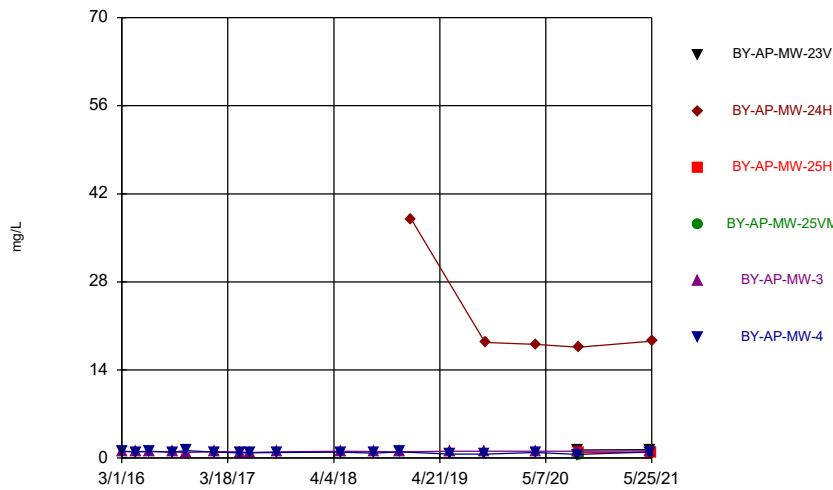
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



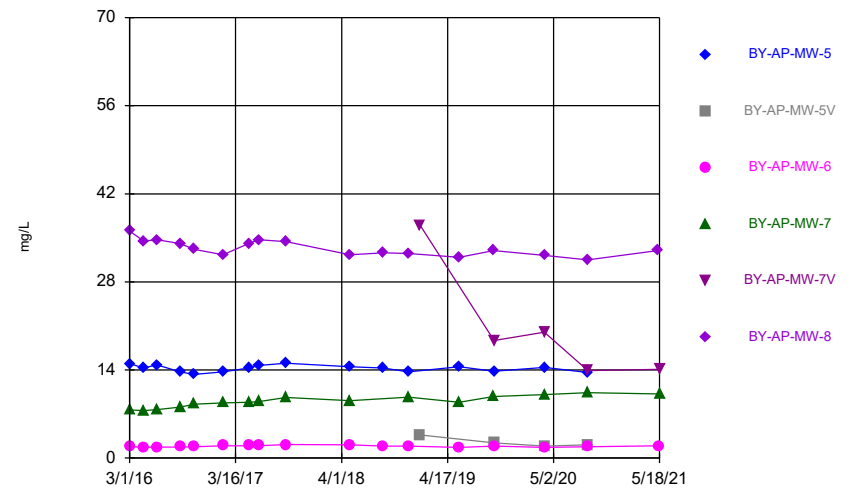
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



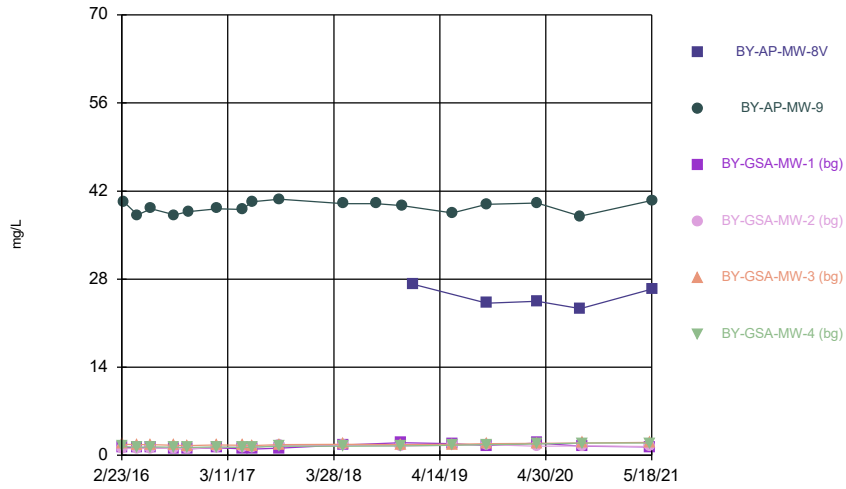
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



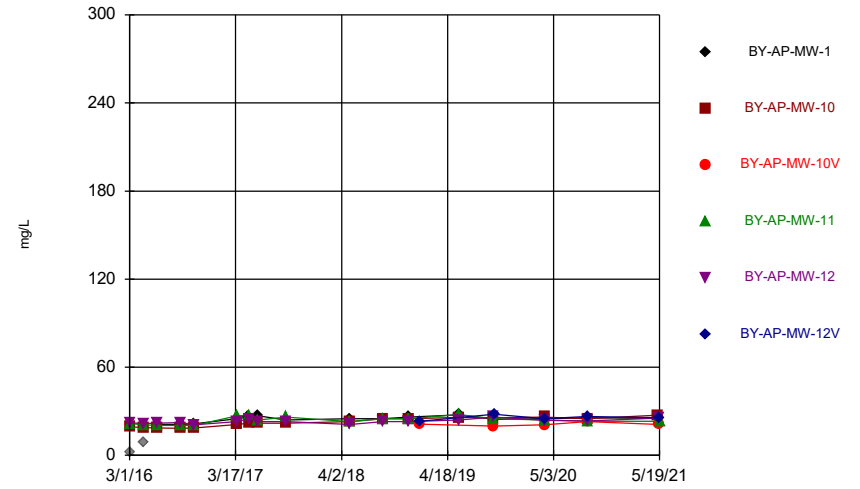
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



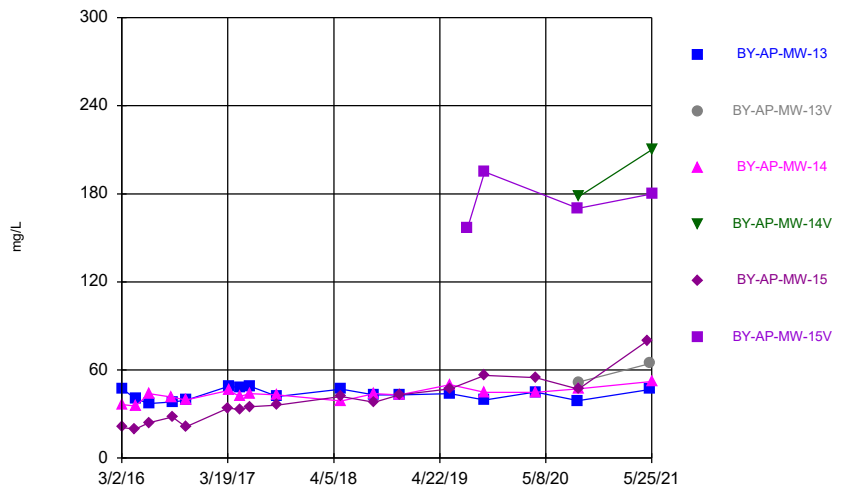
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



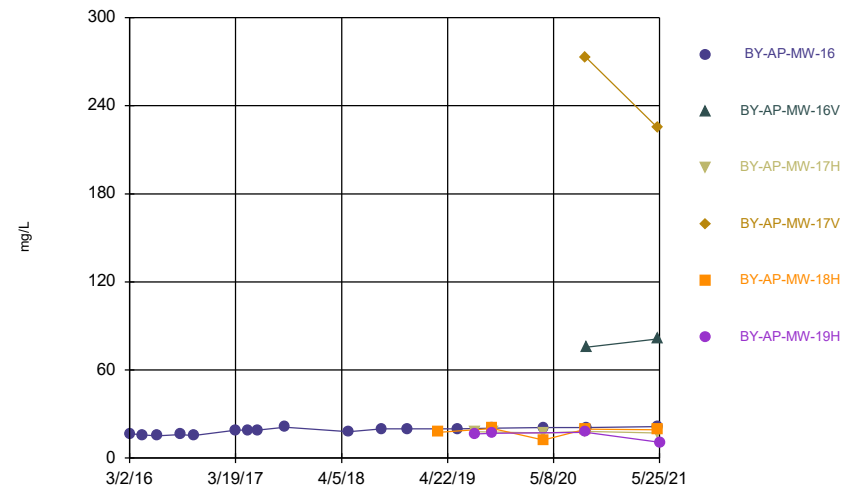
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



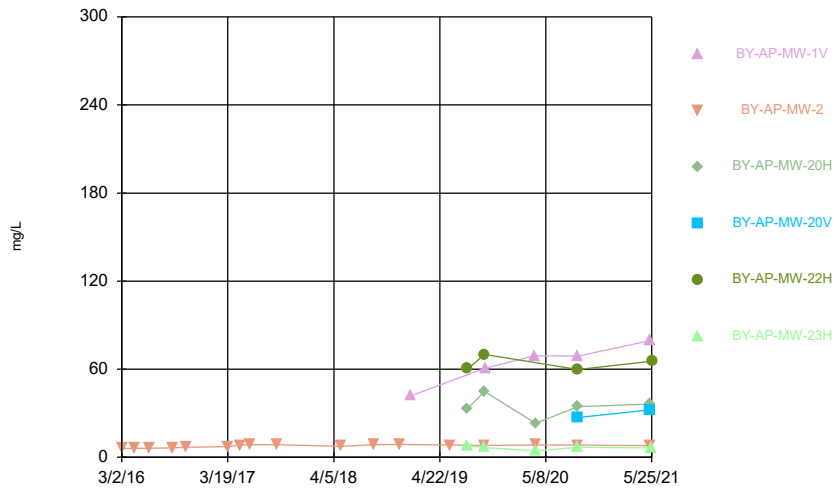
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Time Series



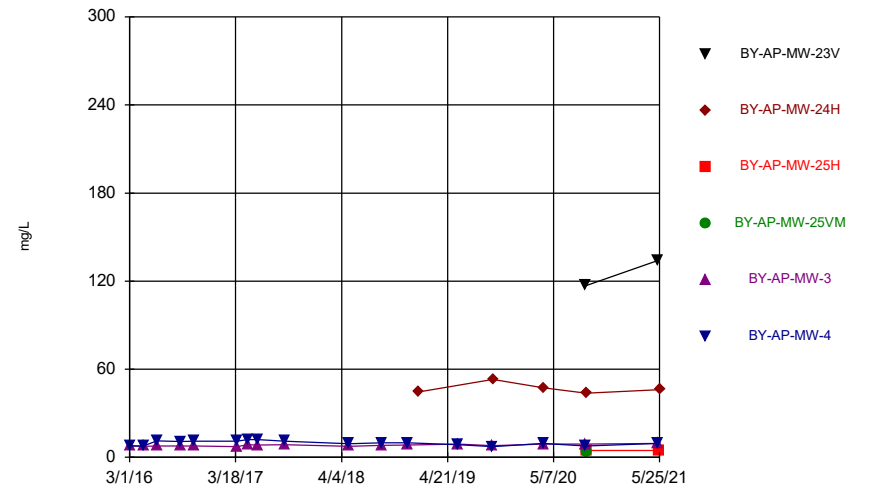
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Time Series



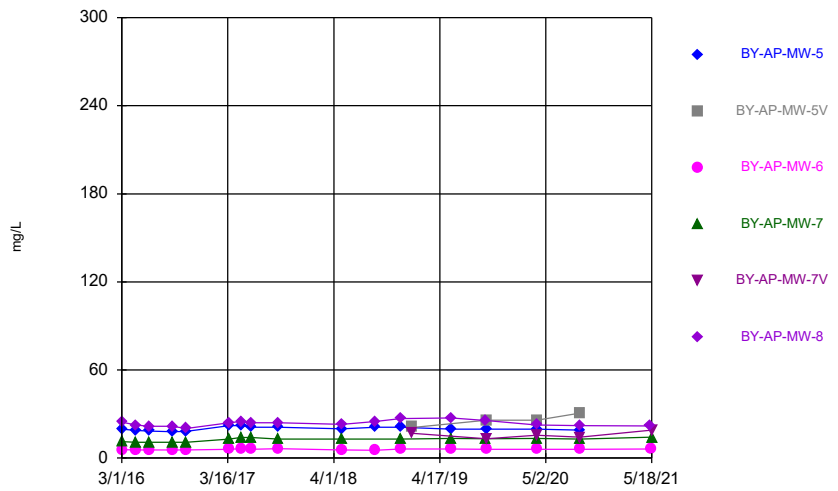
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Time Series



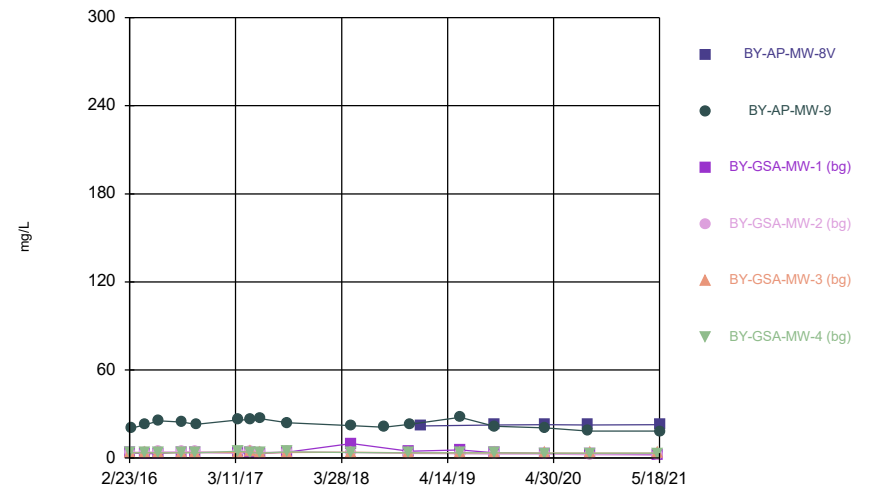
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Time Series



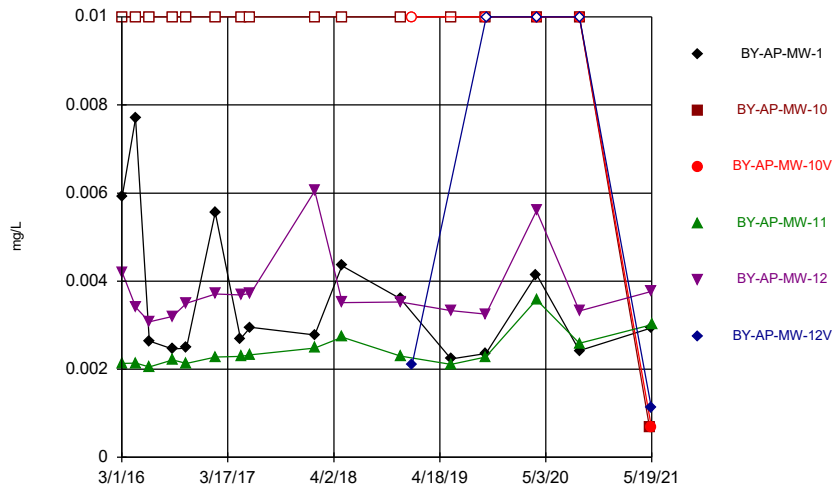
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Time Series



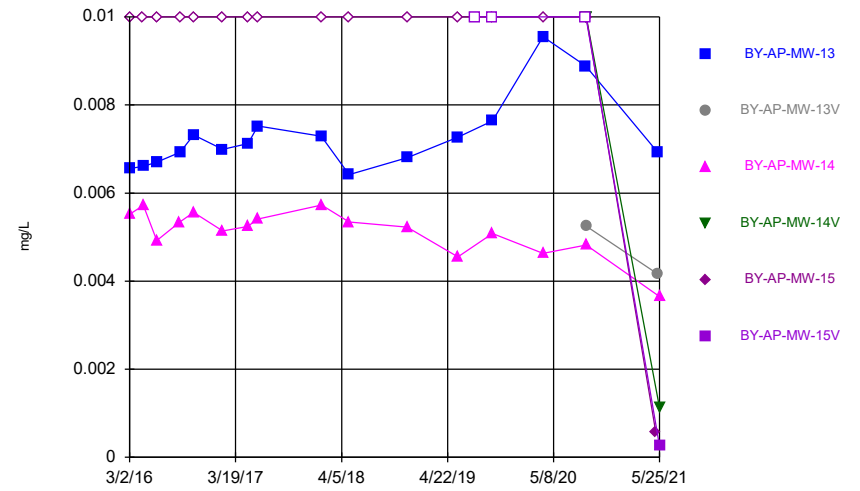
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Time Series



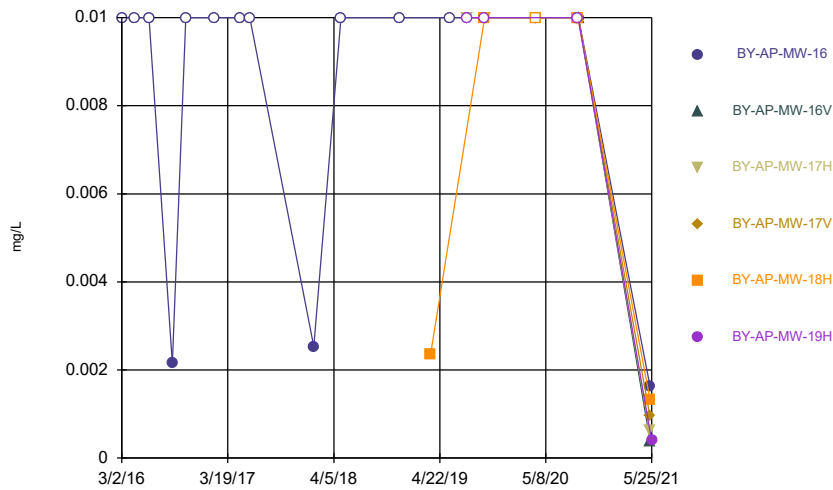
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



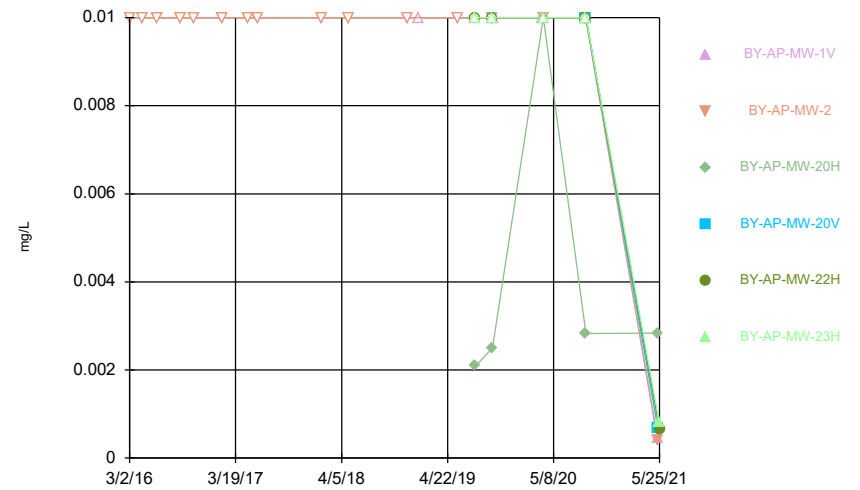
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



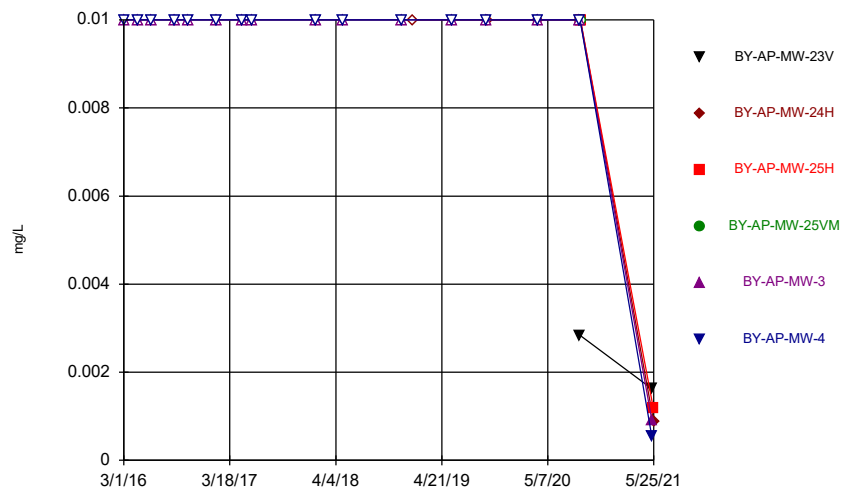
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



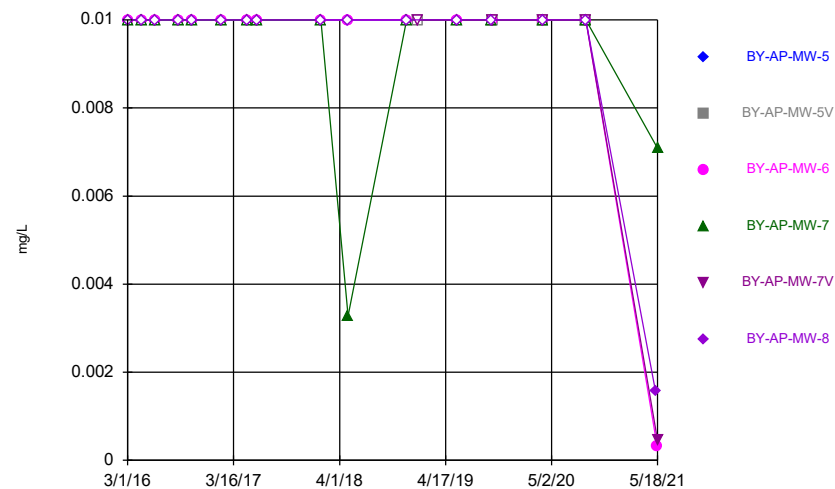
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Time Series



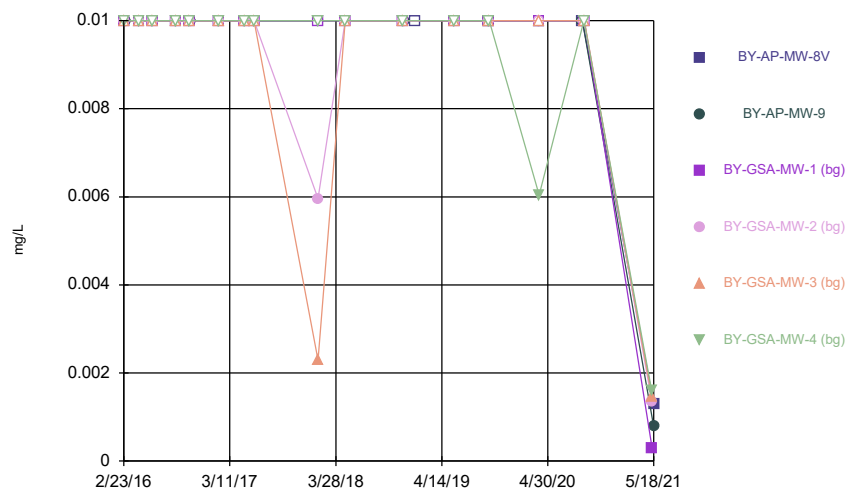
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Time Series



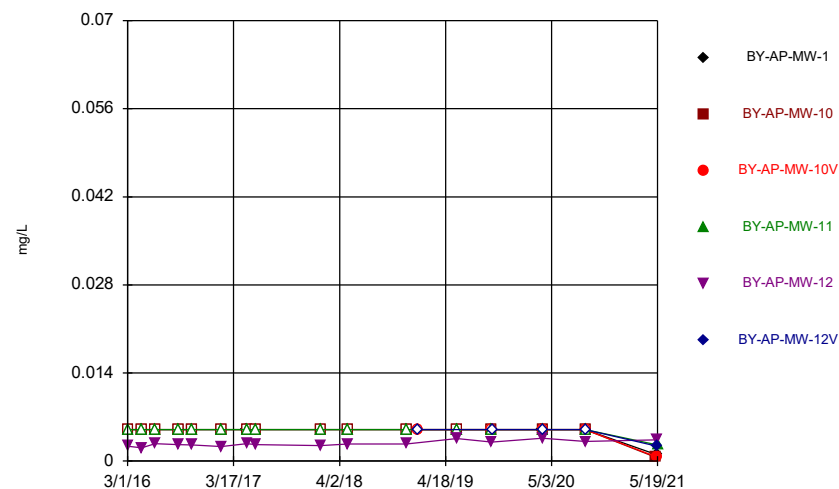
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Time Series



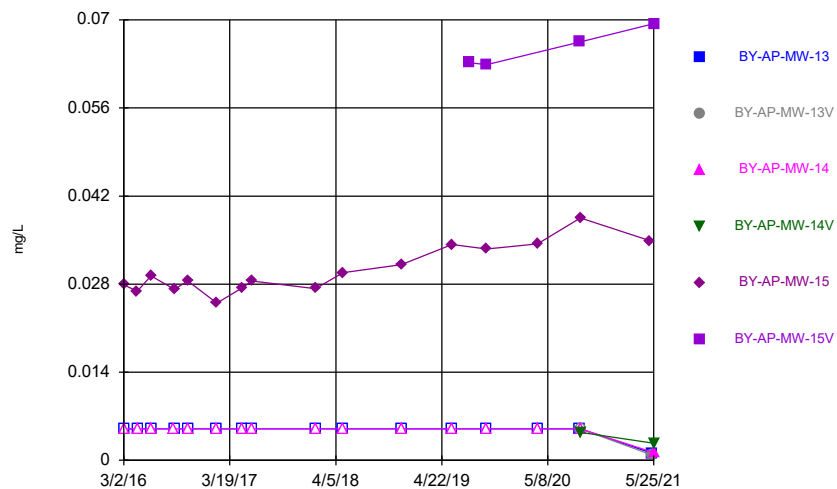
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



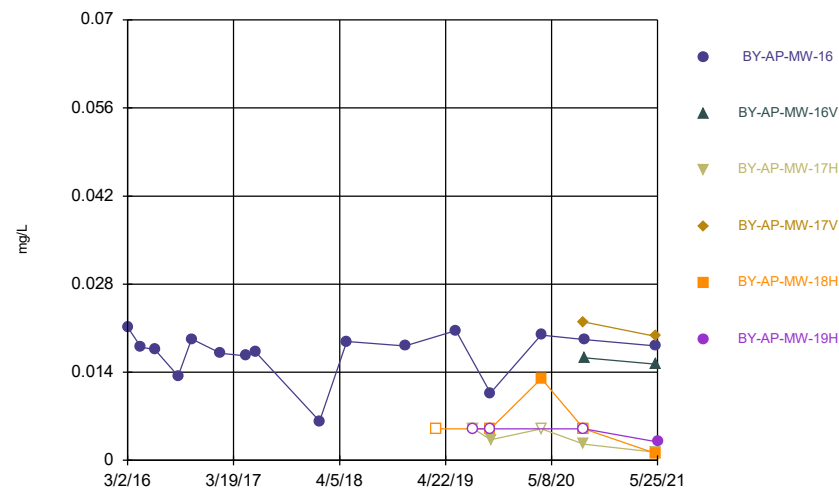
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



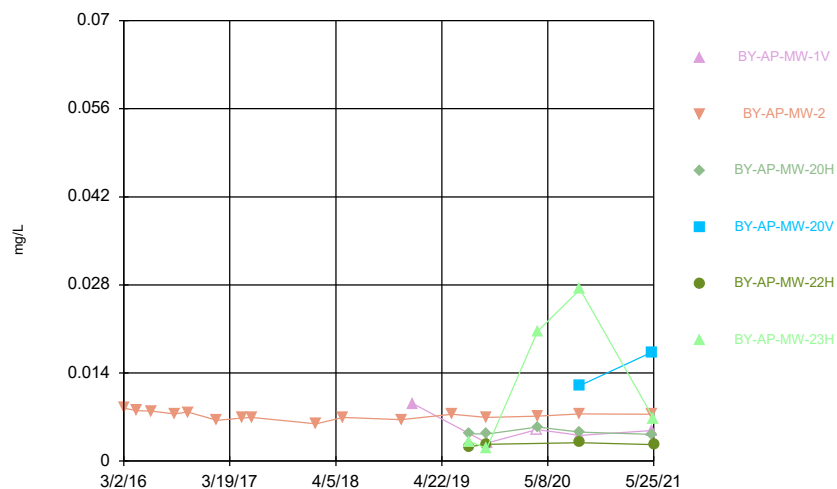
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Time Series



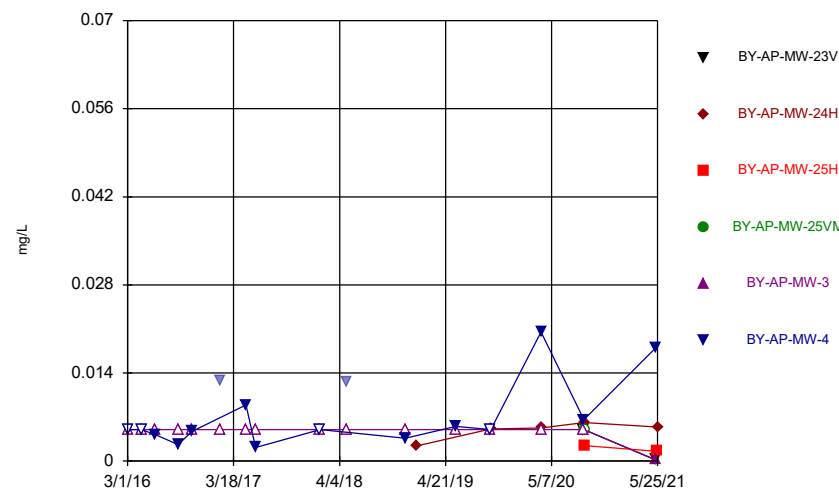
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



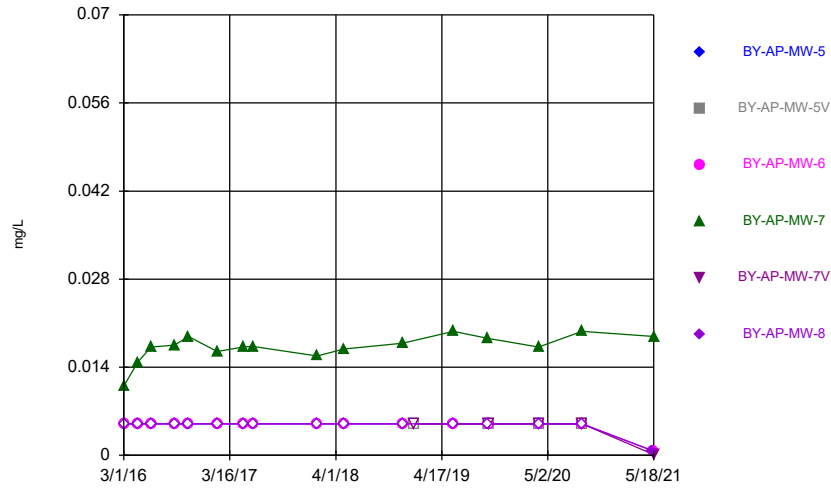
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Time Series



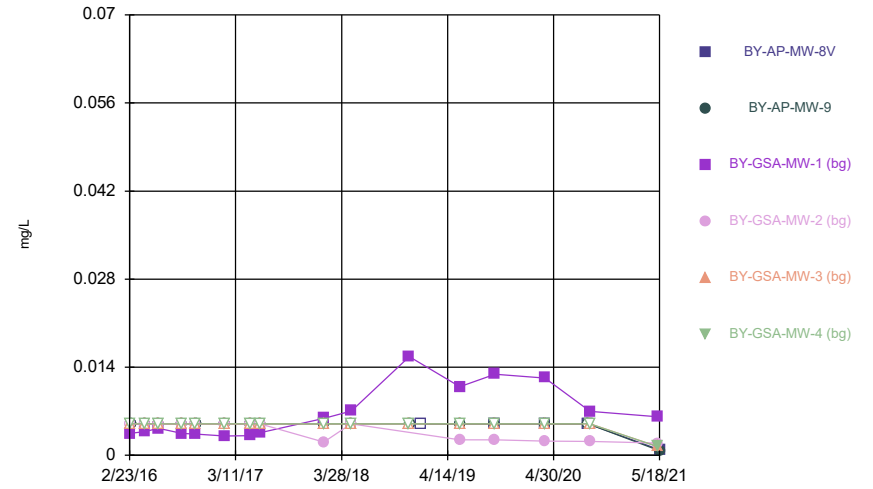
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Time Series



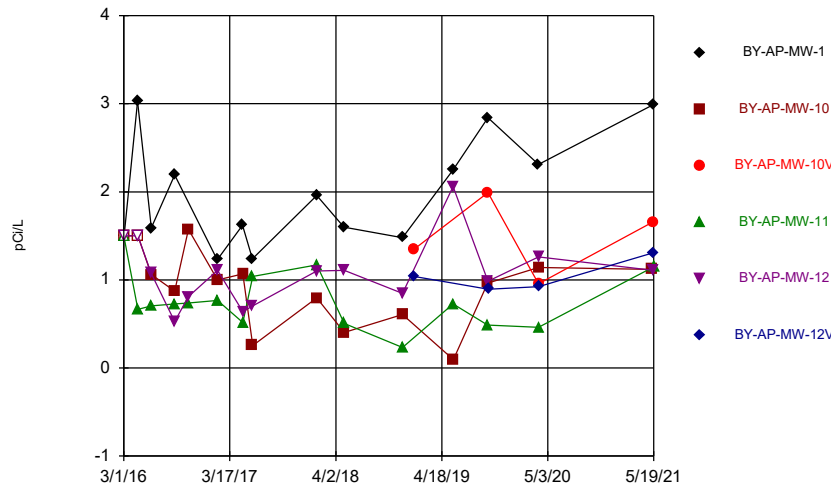
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Time Series



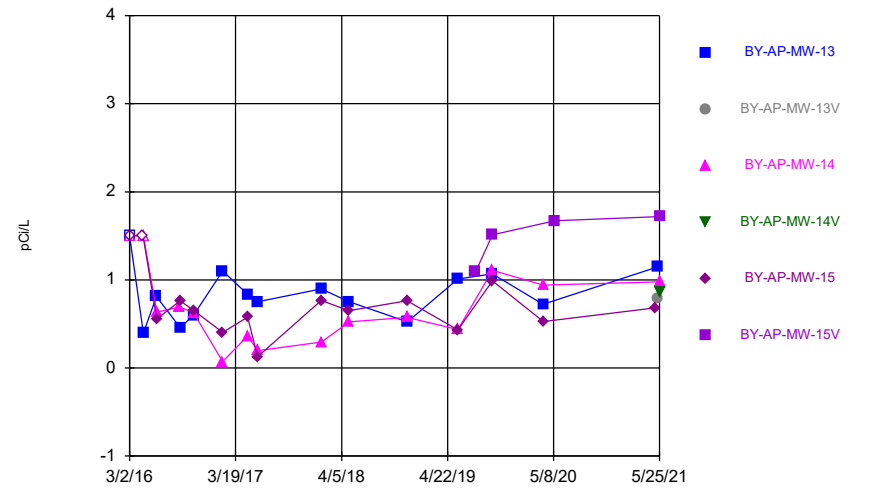
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Time Series



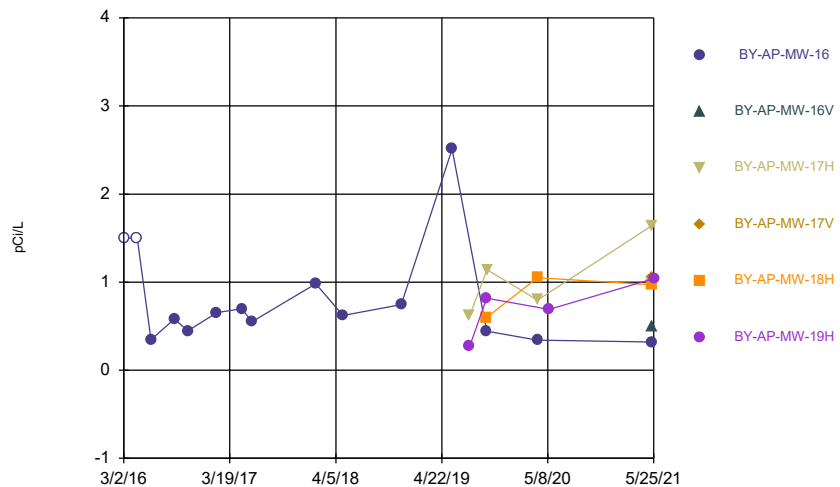
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



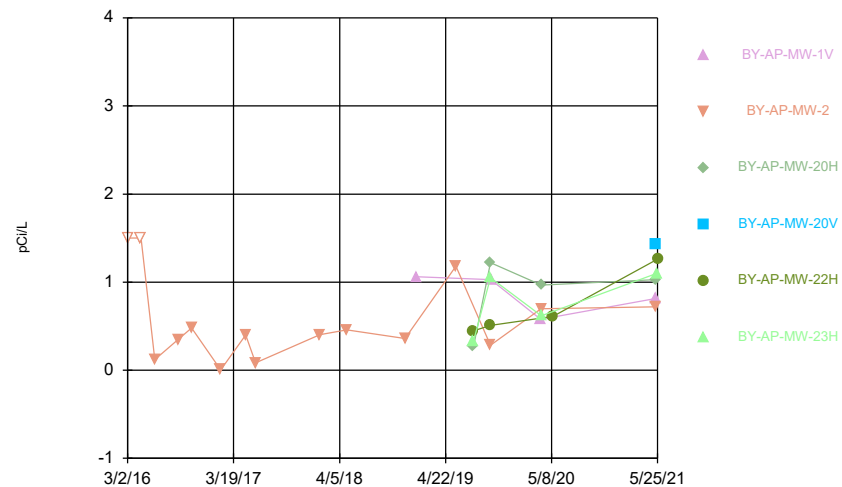
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Time Series



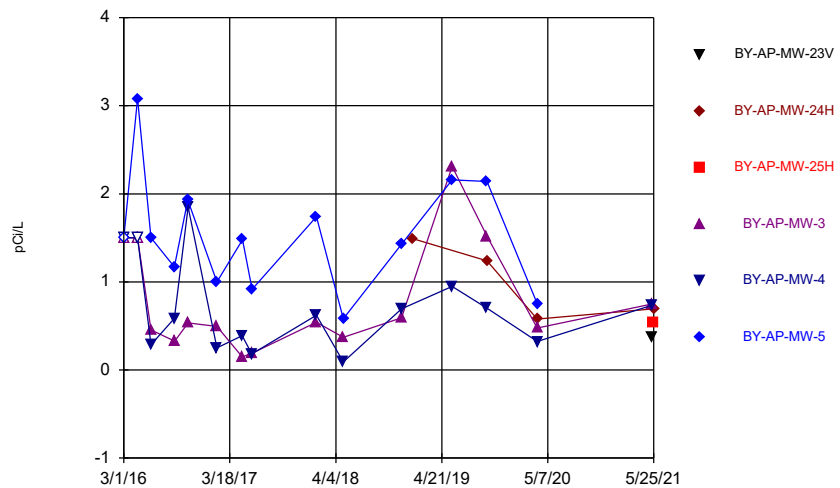
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



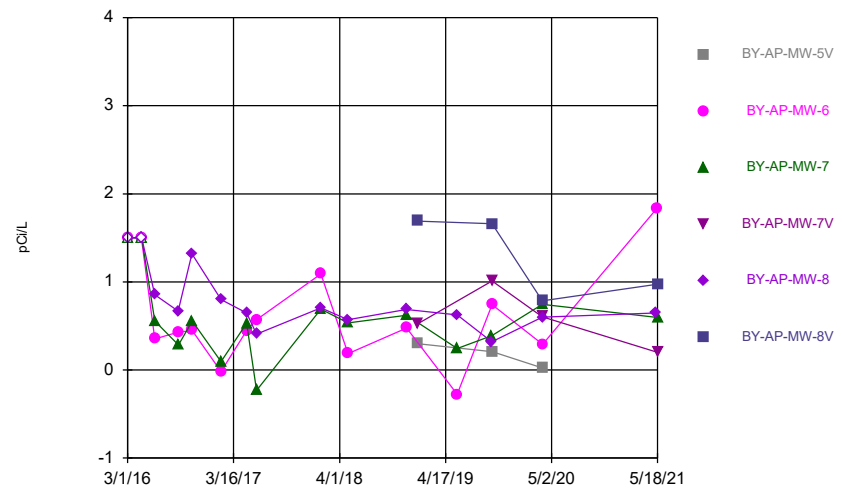
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Time Series



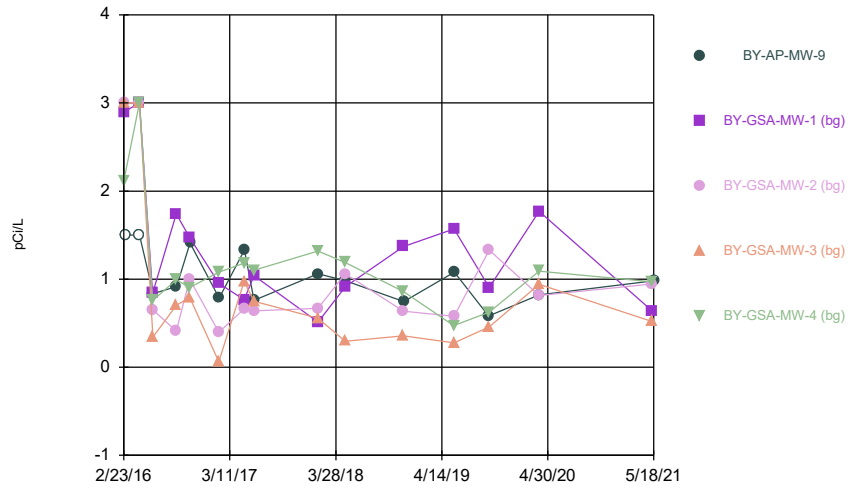
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Time Series



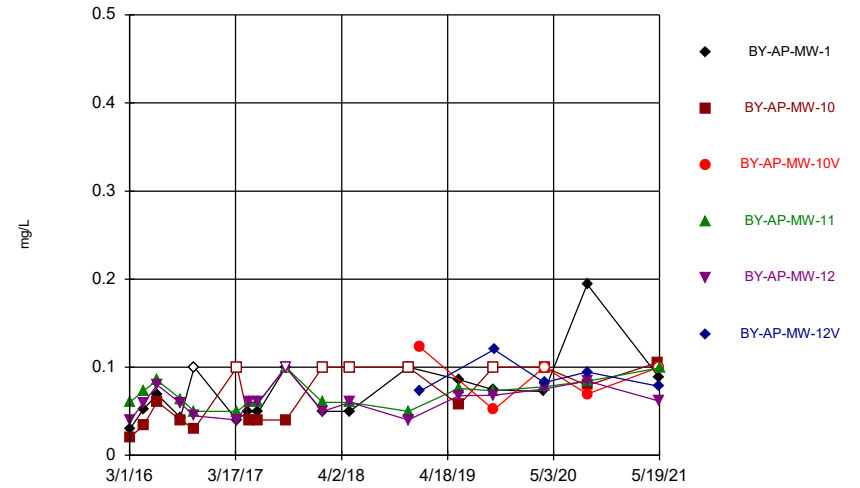
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Time Series



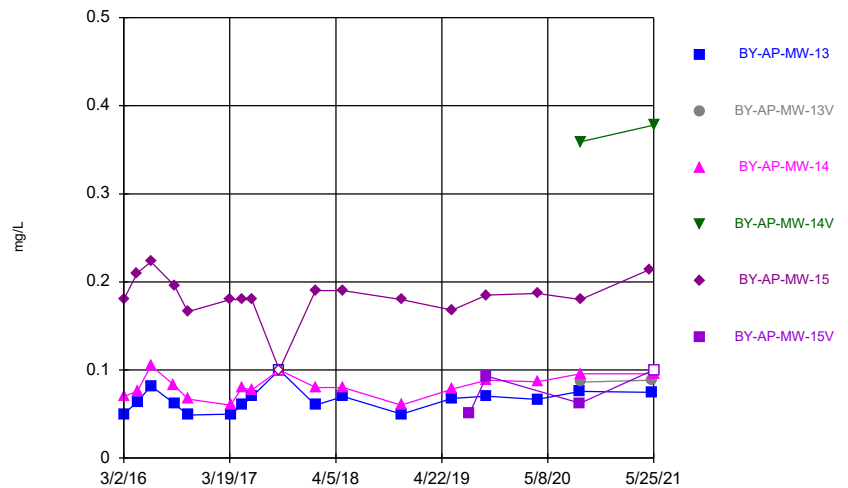
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Time Series



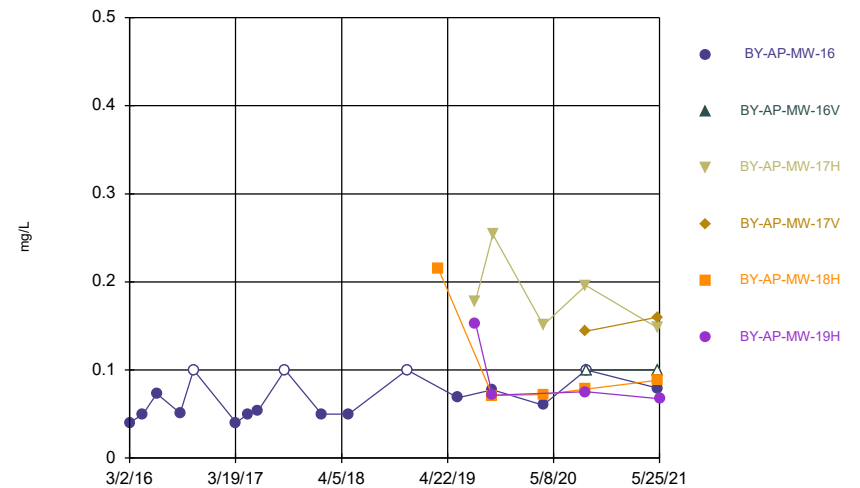
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Time Series



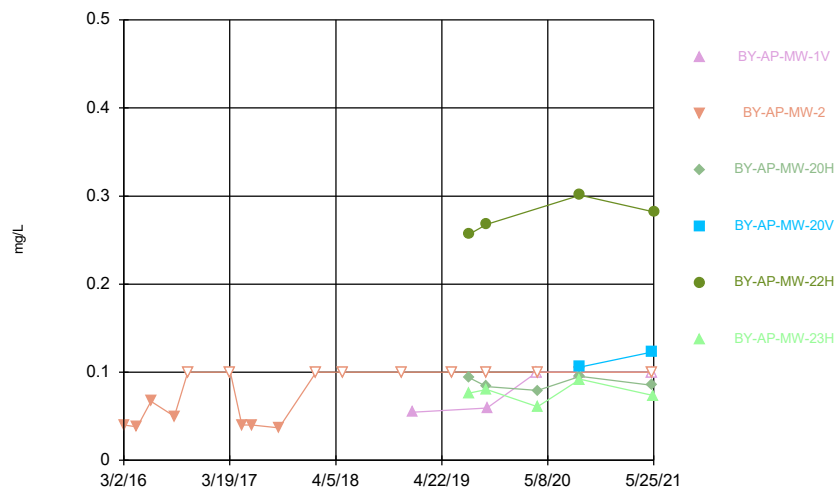
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Time Series



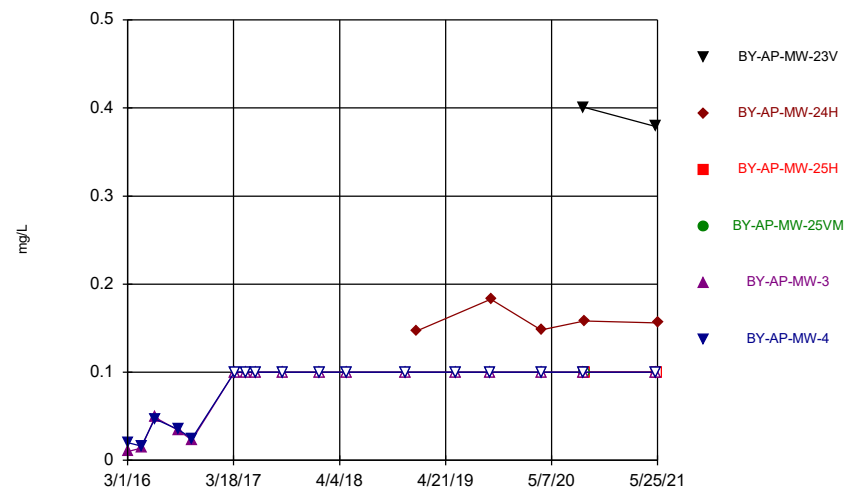
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Time Series



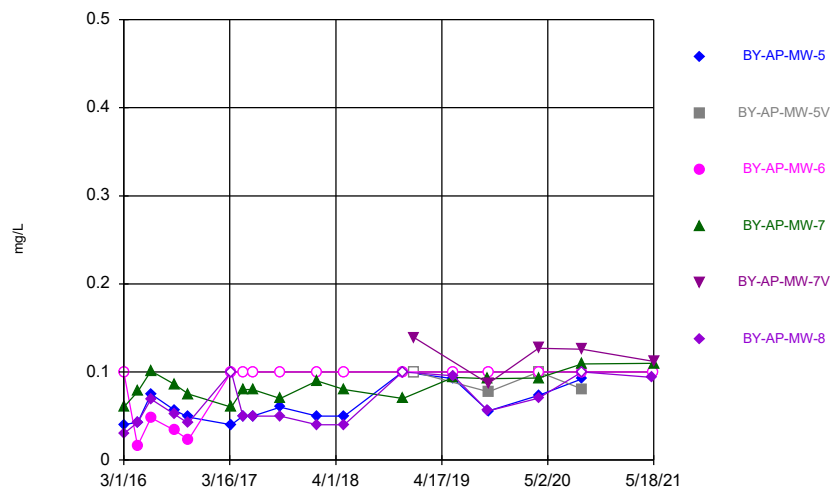
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Time Series



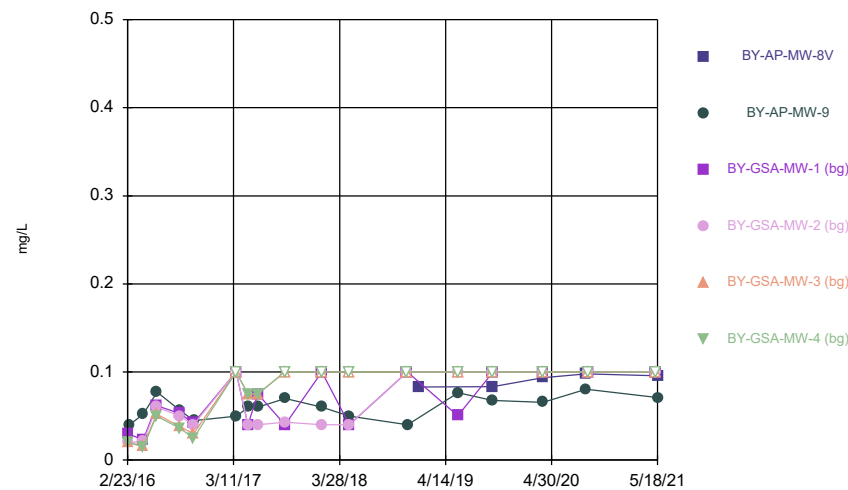
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Time Series



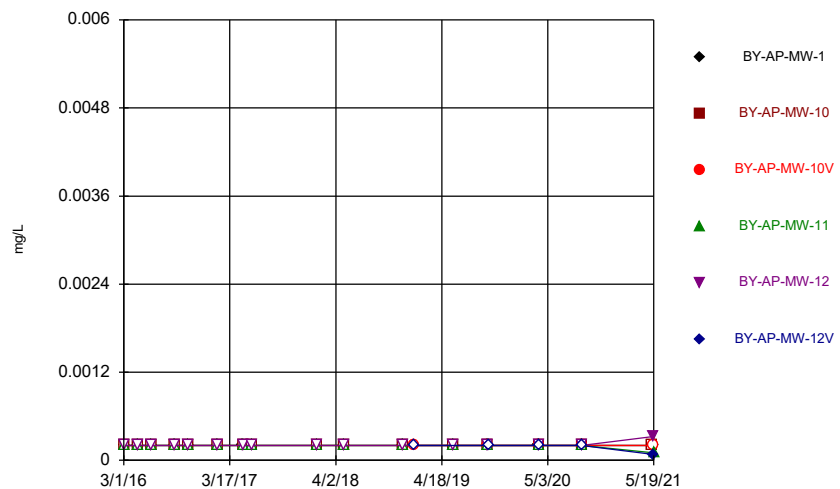
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Time Series



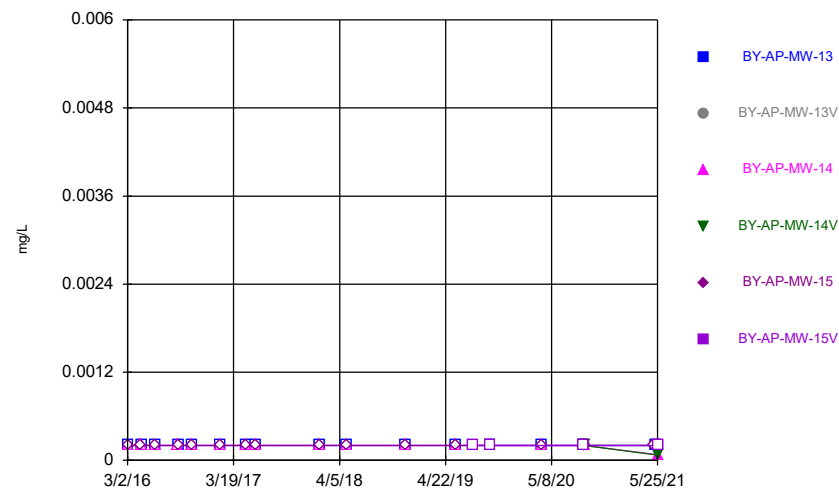
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



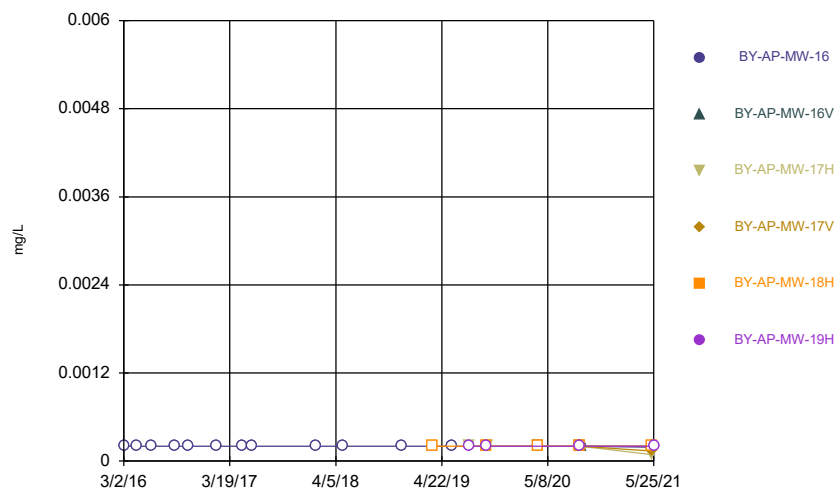
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



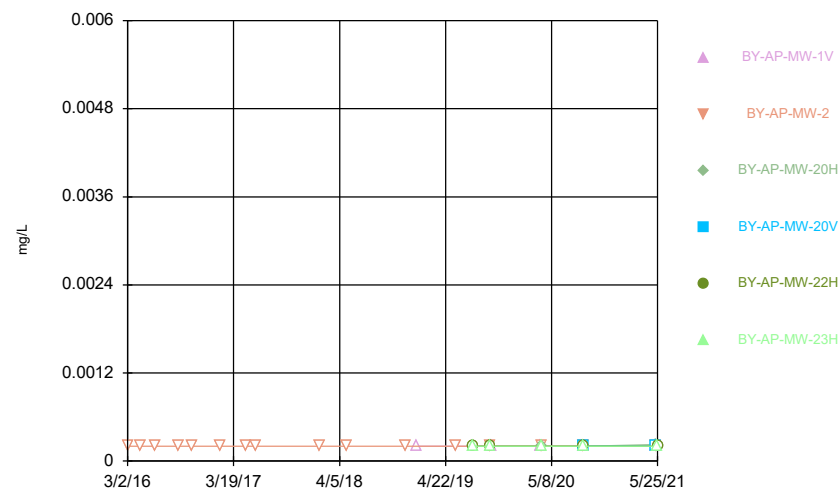
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



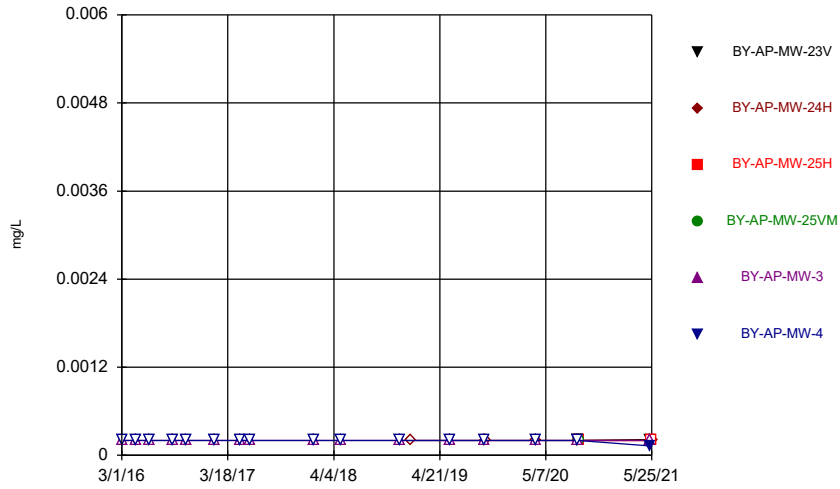
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



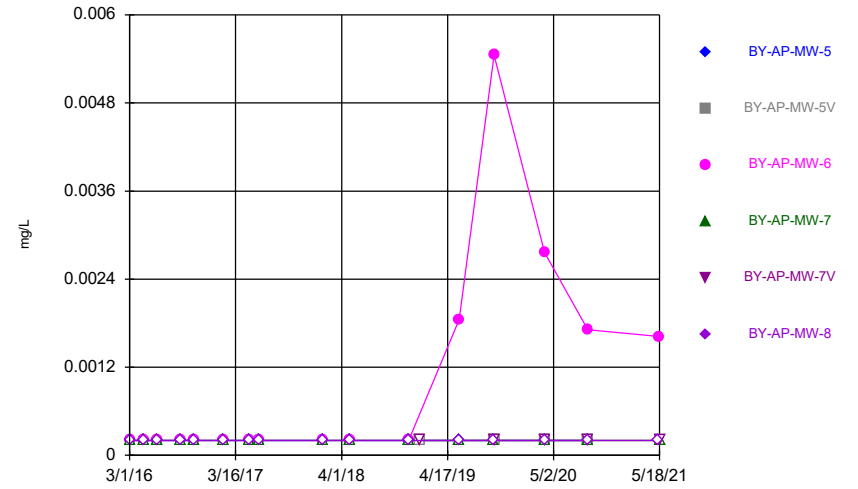
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



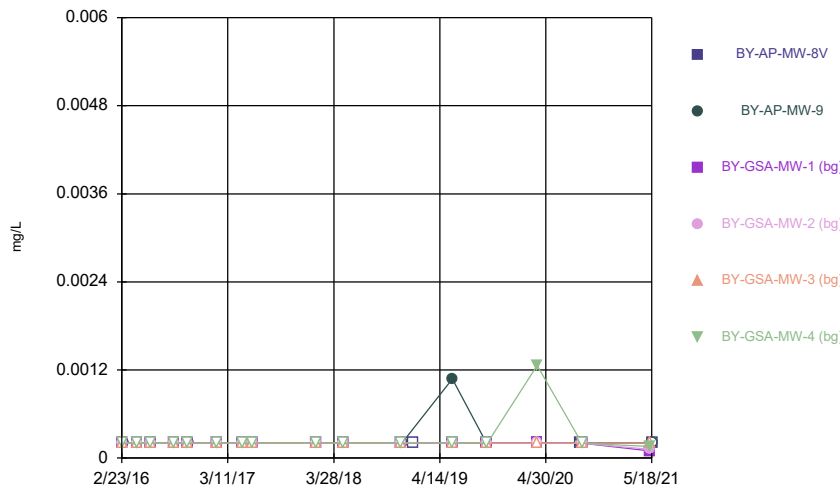
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



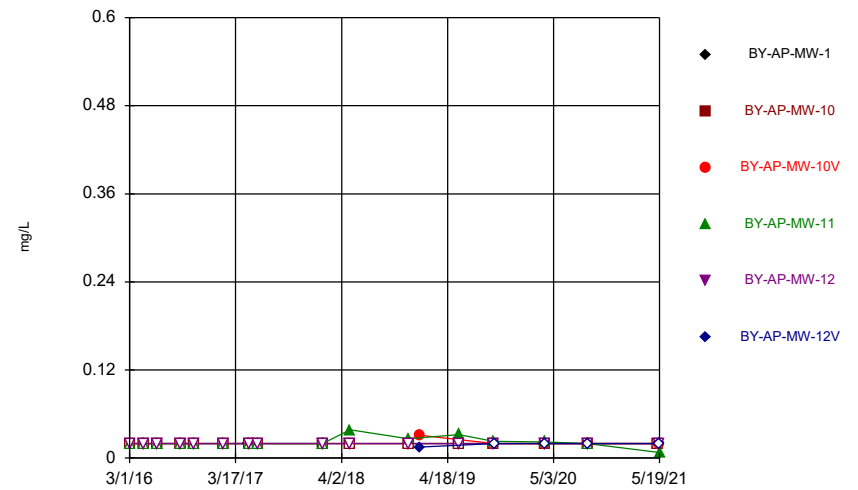
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



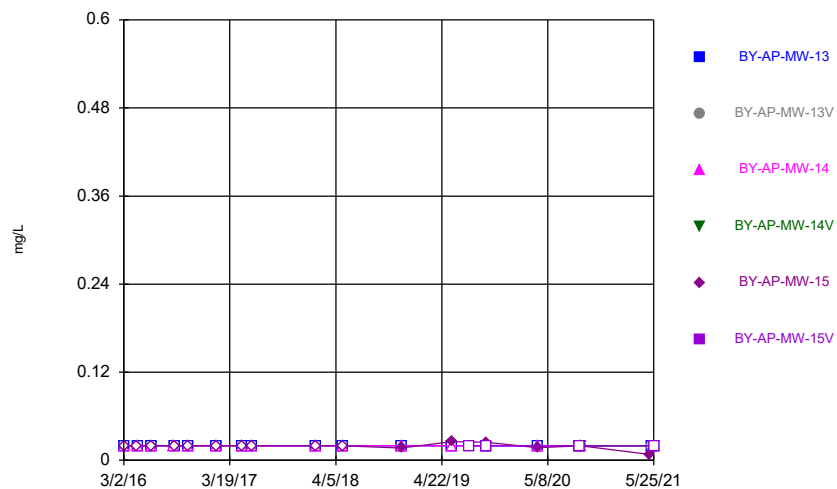
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



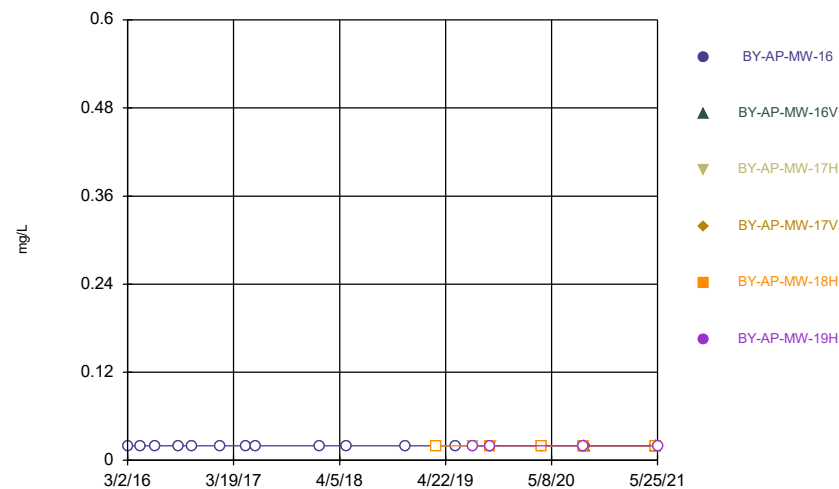
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



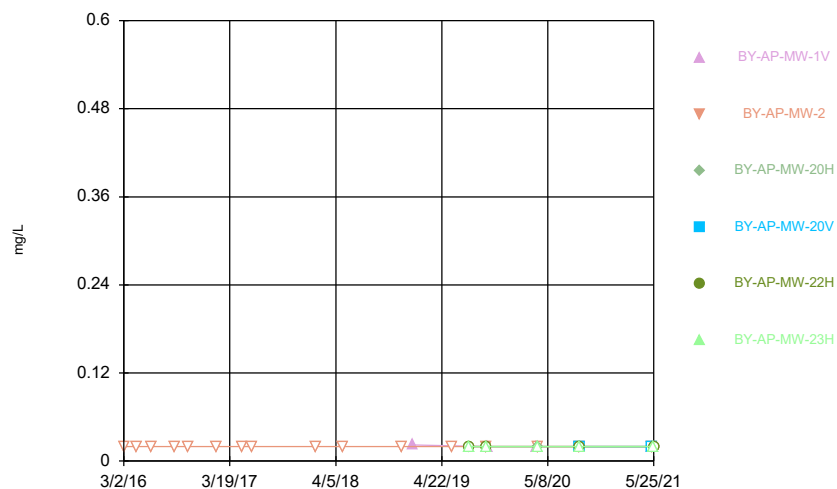
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Time Series



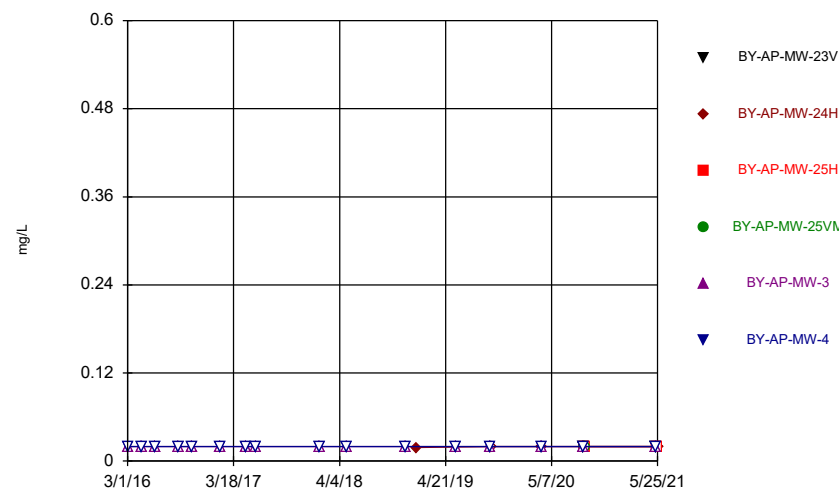
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Time Series



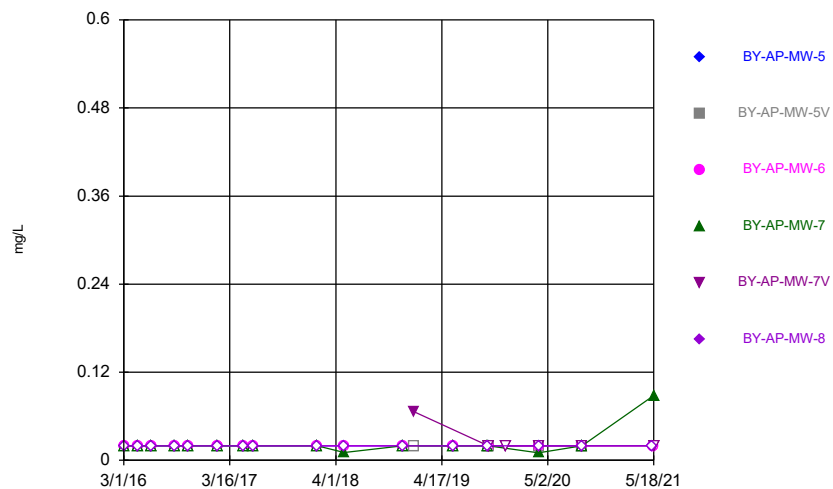
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Time Series



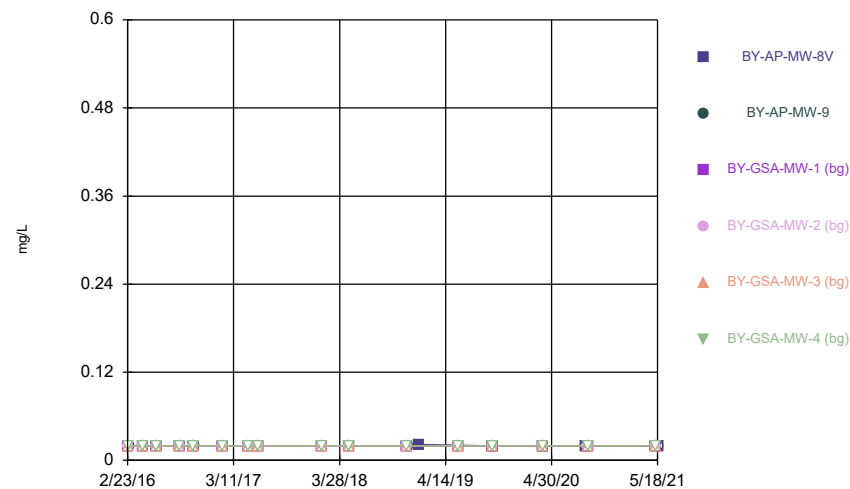
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



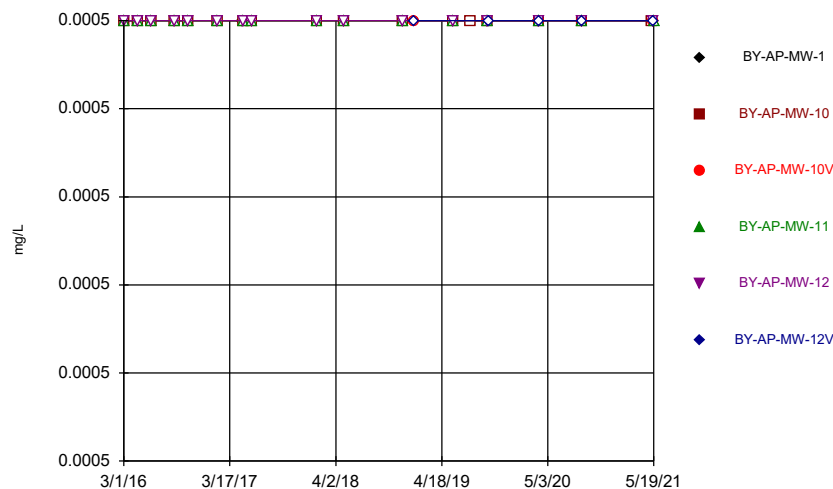
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



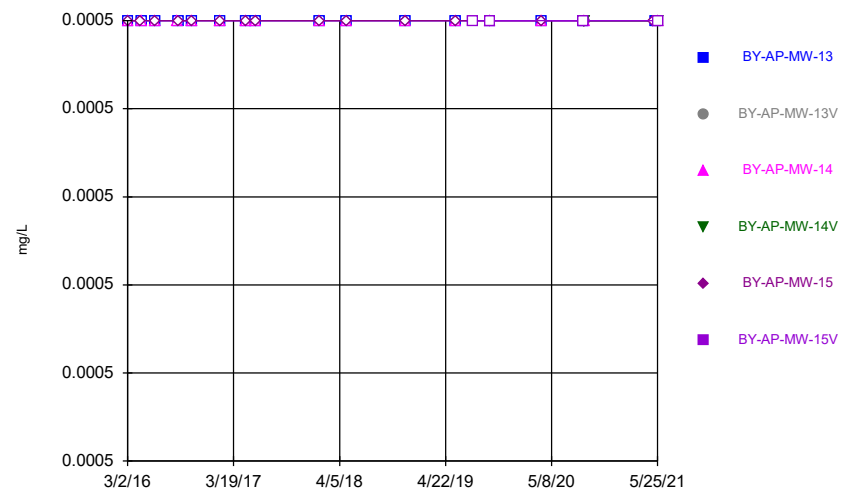
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



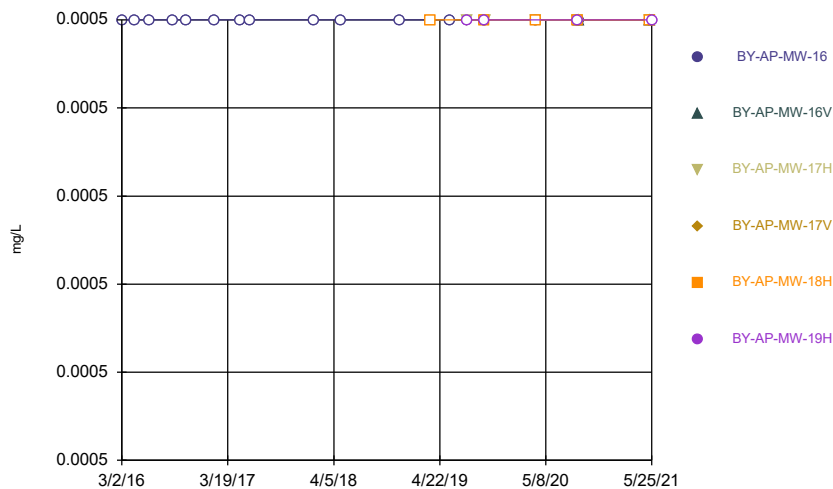
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



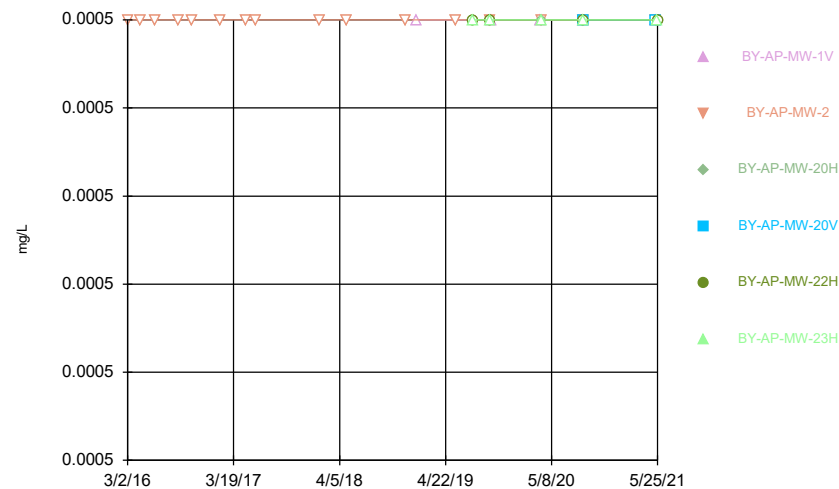
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



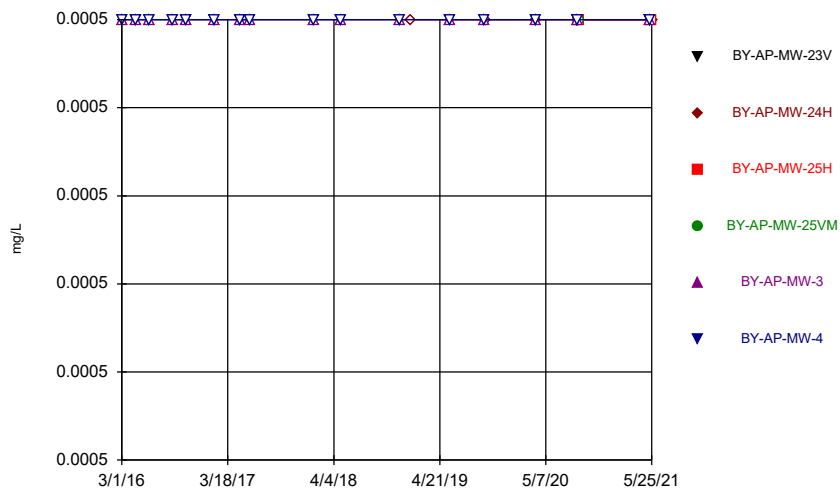
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Time Series



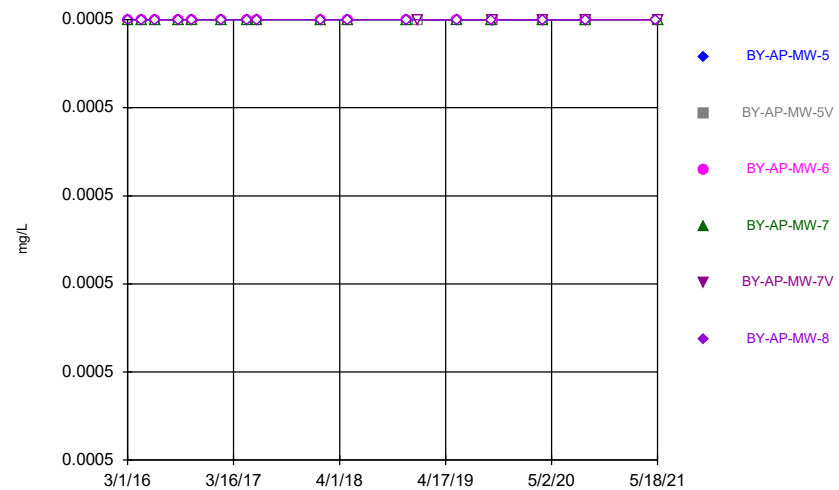
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Time Series



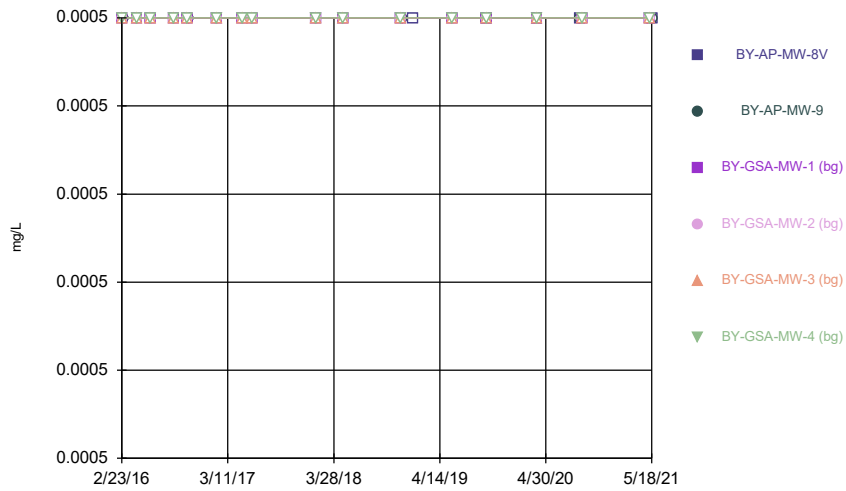
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Time Series



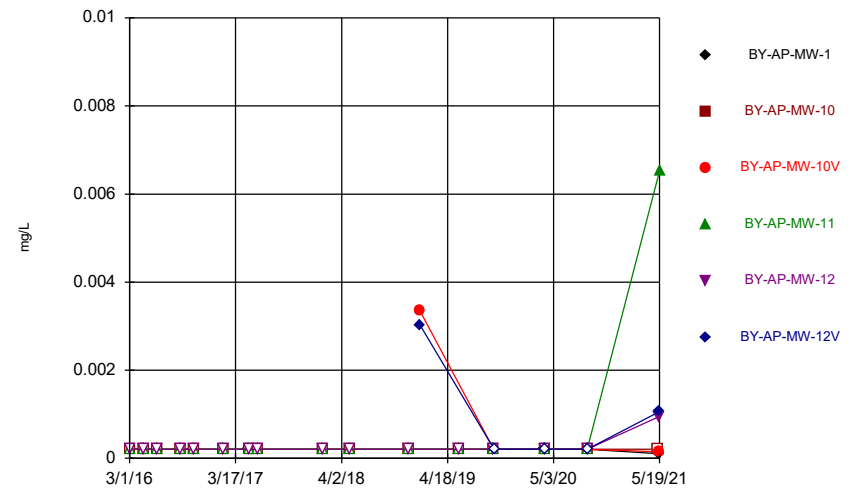
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



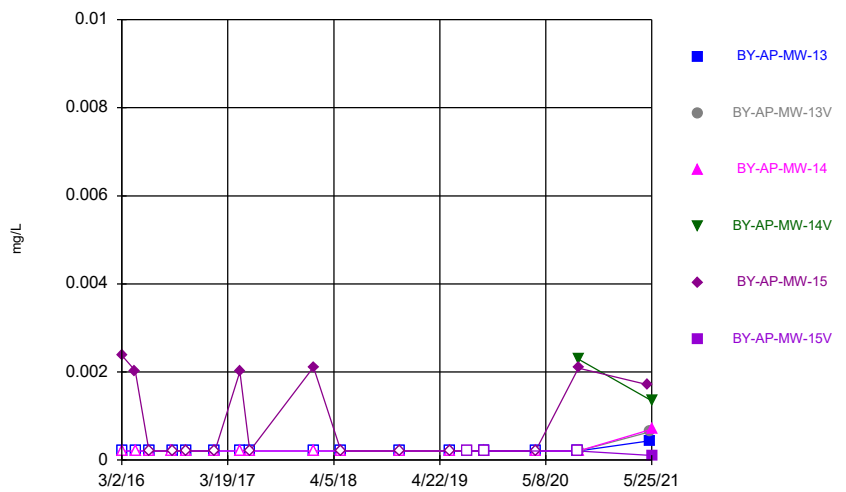
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



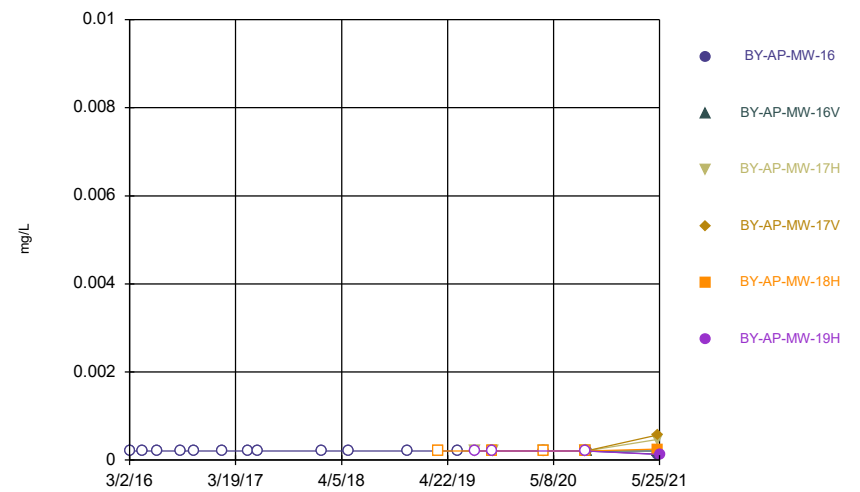
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



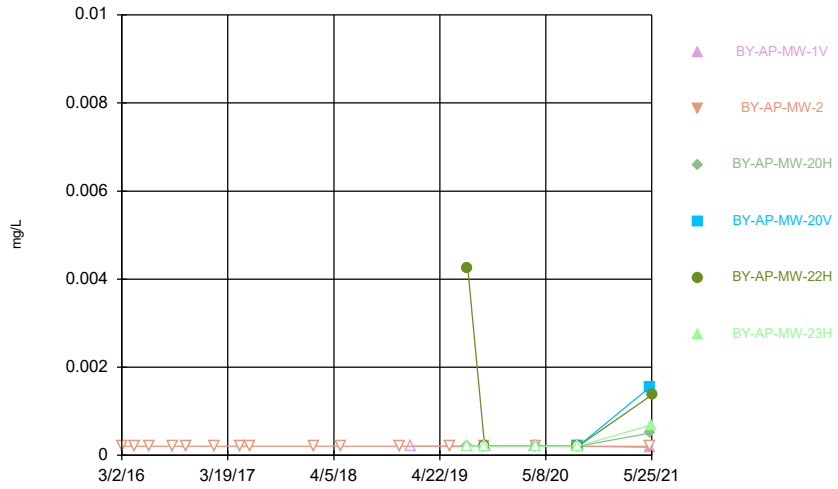
Constituent: Molybdenum Analysis Run 7/14/2021 12:26 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



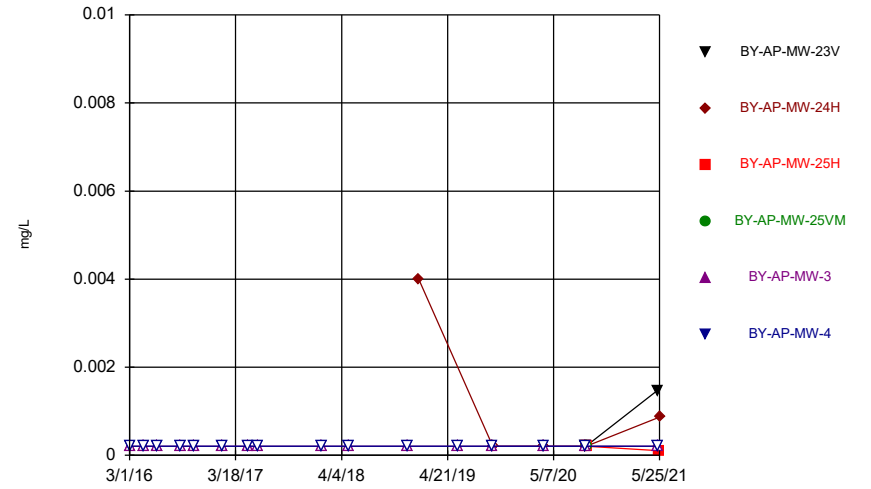
Constituent: Molybdenum Analysis Run 7/14/2021 12:26 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



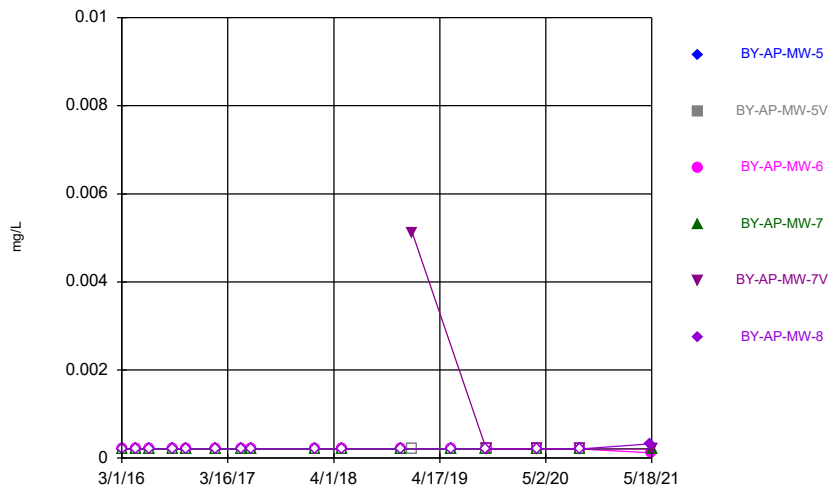
Constituent: Molybdenum Analysis Run 7/14/2021 12:26 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



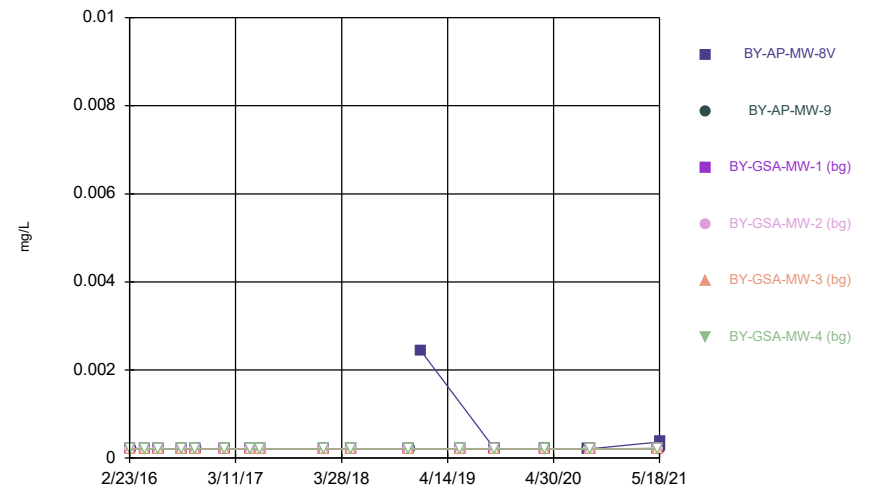
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



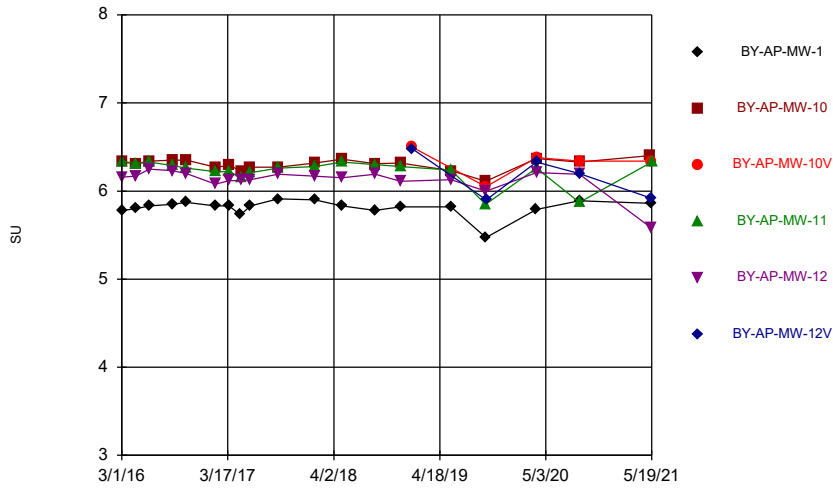
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



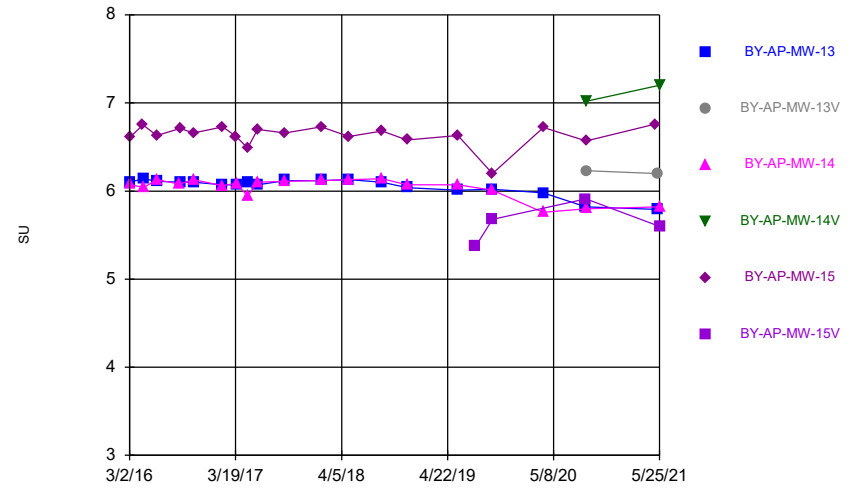
Constituent: Molybdenum Analysis Run 7/14/2021 12:26 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



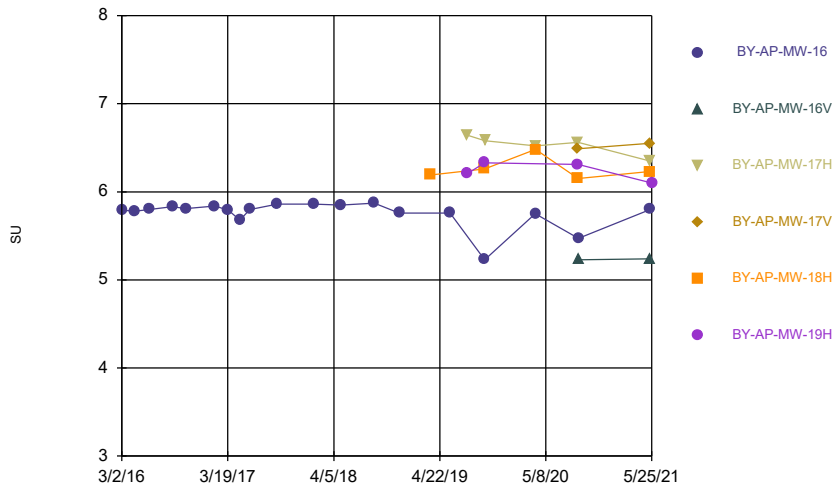
Constituent: pH, field Analysis Run 7/14/2021 12:26 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



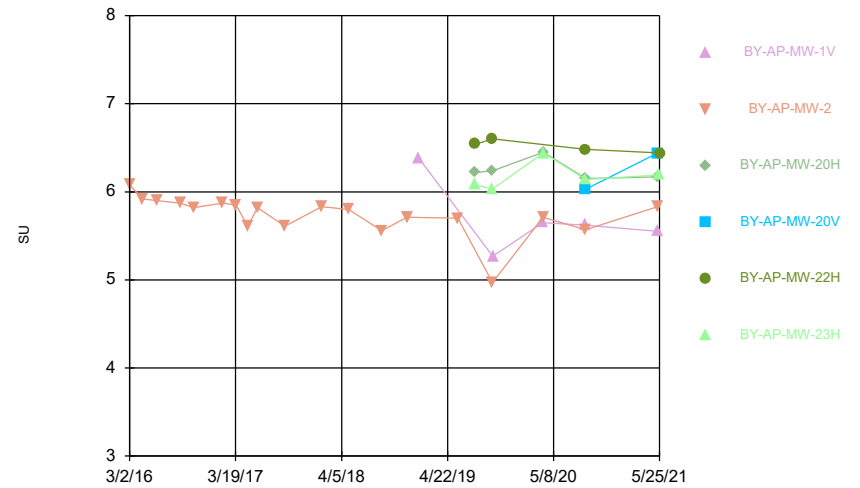
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



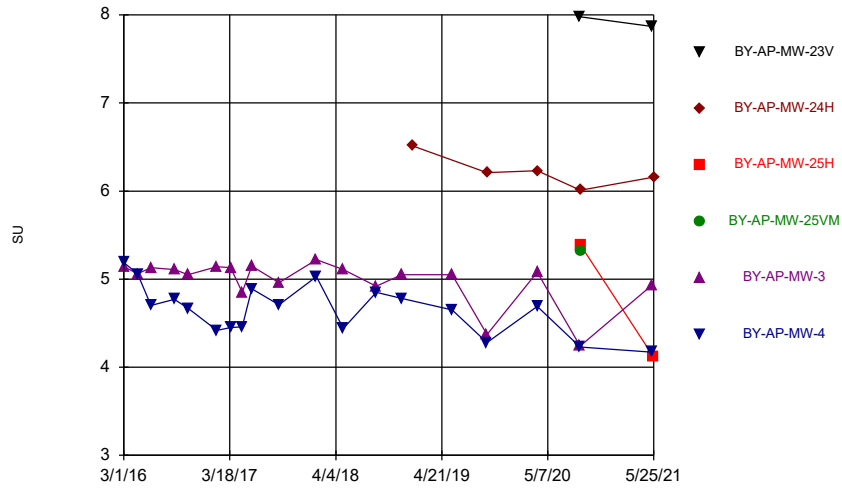
Constituent: pH, field Analysis Run 7/14/2021 12:26 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



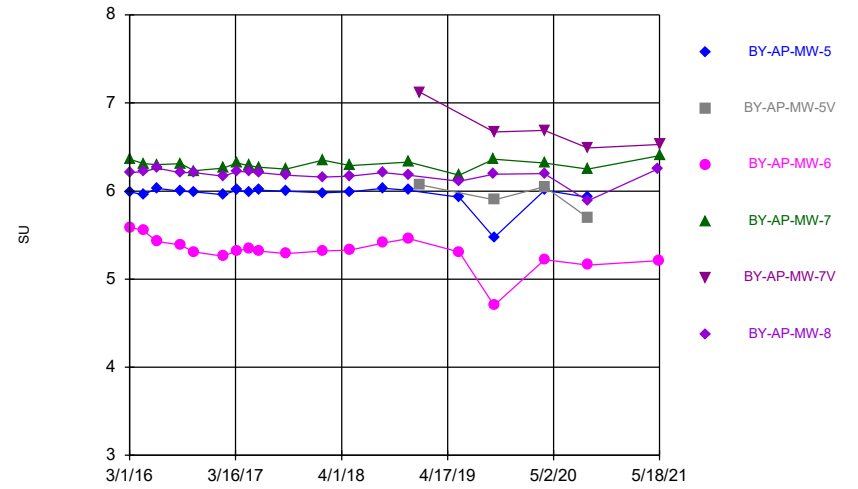
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



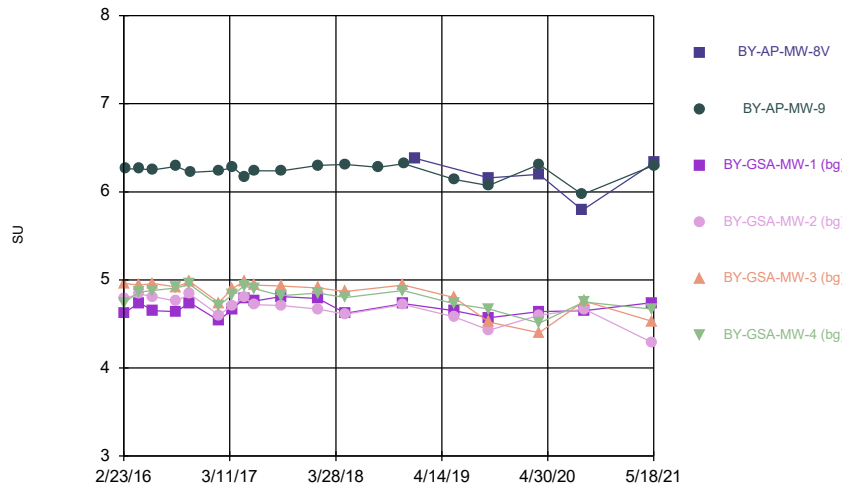
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



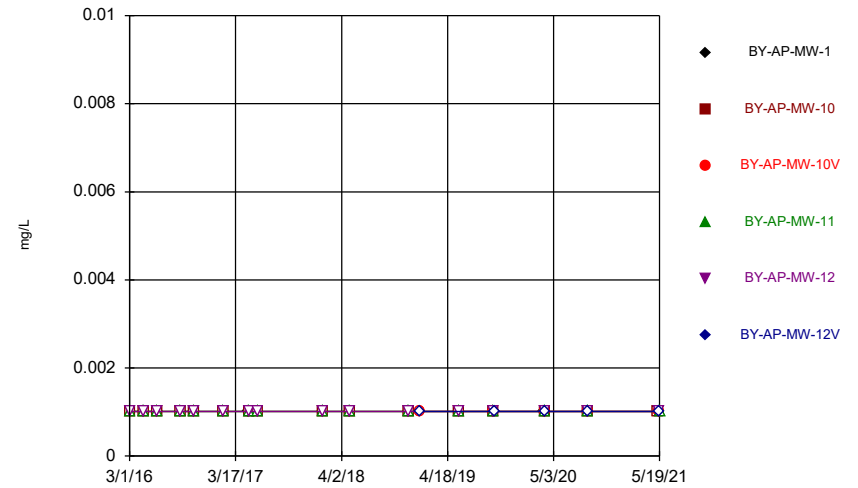
Constituent: pH, field Analysis Run 7/14/2021 12:26 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



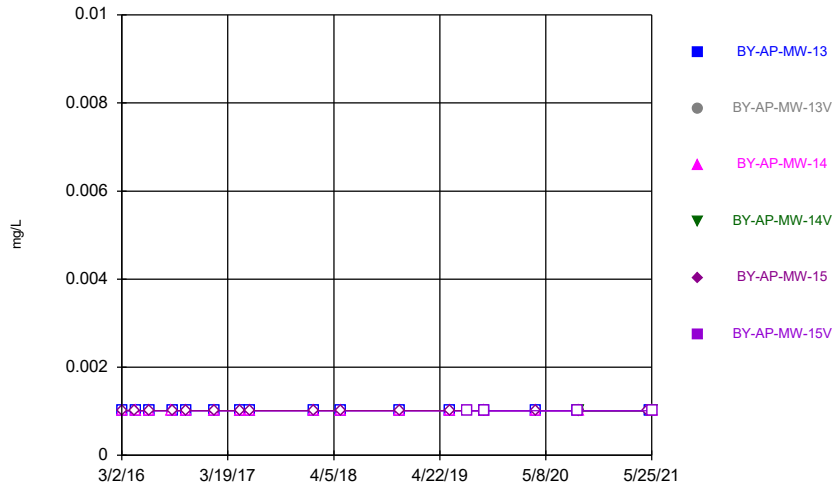
Constituent: pH, field Analysis Run 7/14/2021 12:26 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



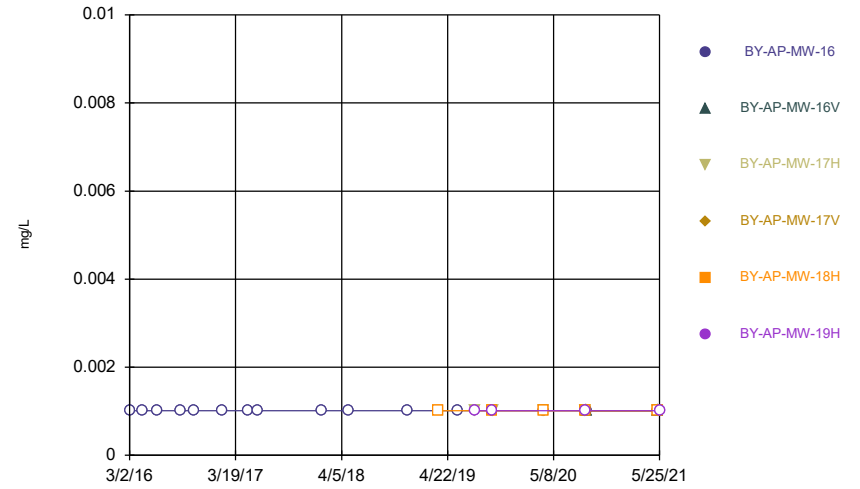
Constituent: Selenium Analysis Run 7/14/2021 12:26 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



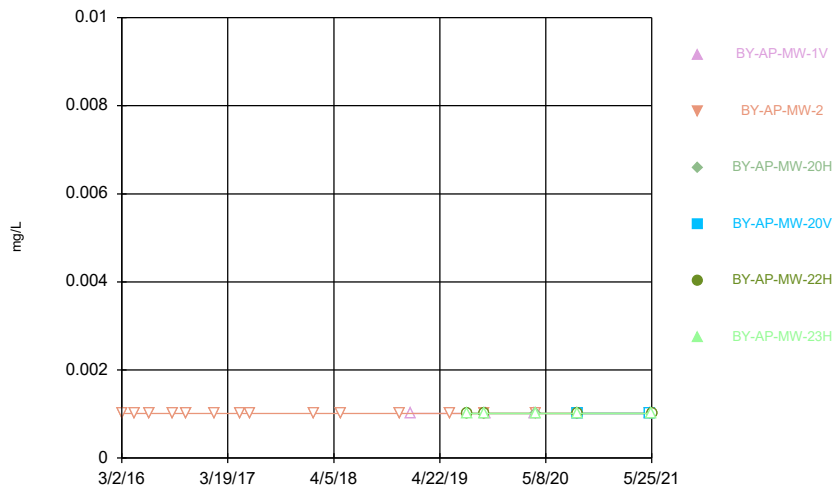
Constituent: Selenium Analysis Run 7/14/2021 12:26 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



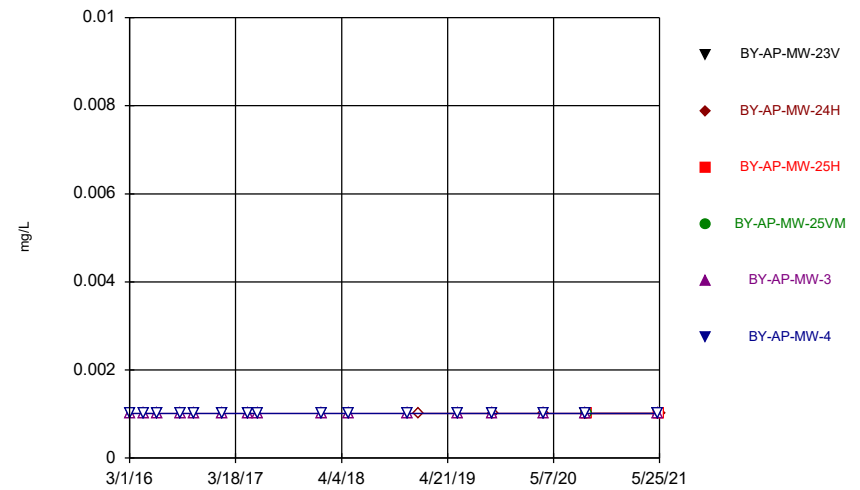
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



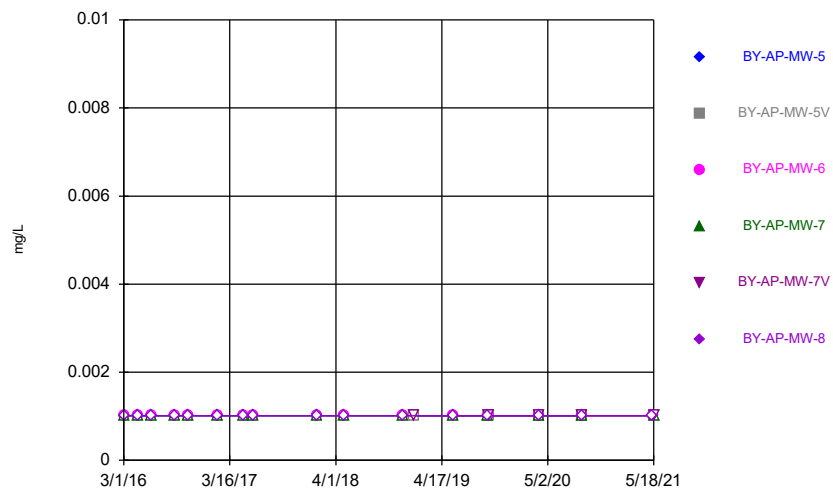
Constituent: Selenium Analysis Run 7/14/2021 12:26 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



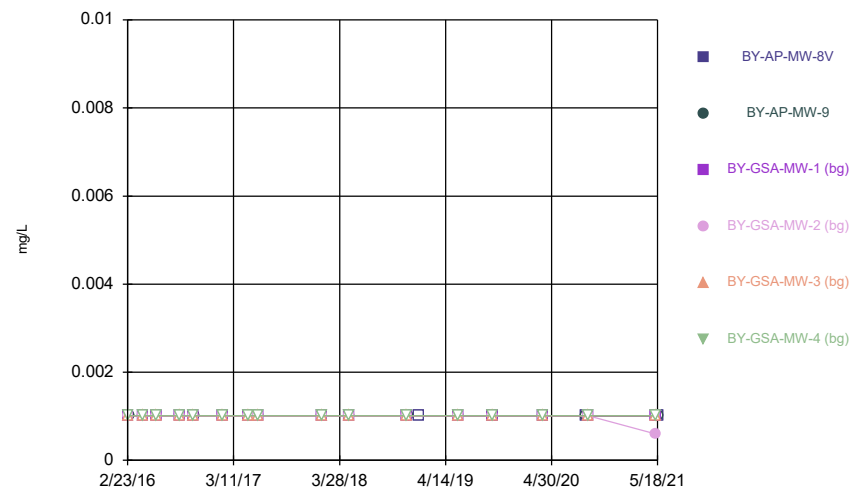
Constituent: Selenium Analysis Run 7/14/2021 12:26 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



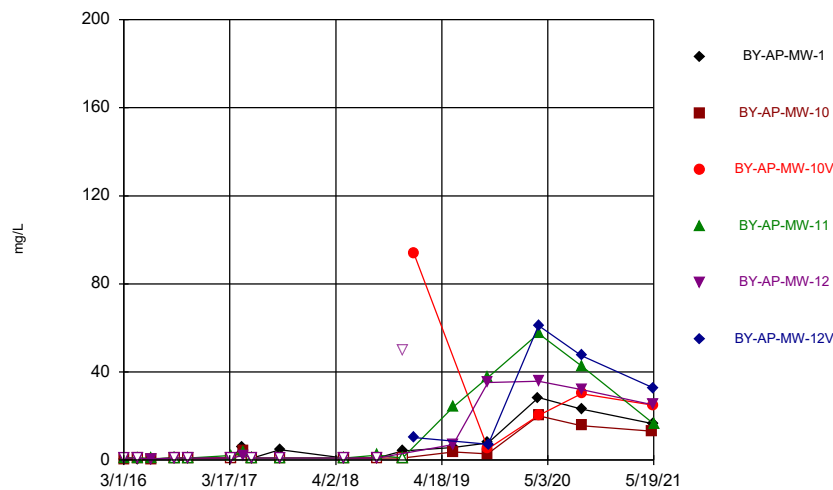
Constituent: Selenium Analysis Run 7/14/2021 12:26 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



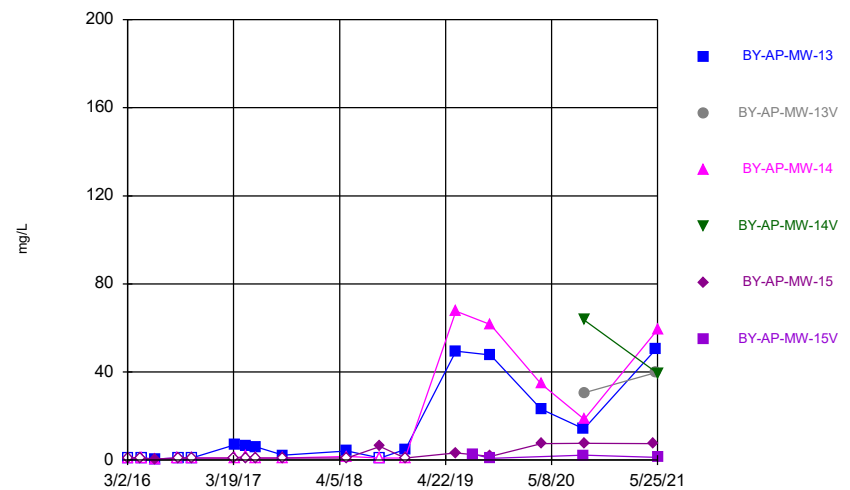
Constituent: Selenium Analysis Run 7/14/2021 12:26 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



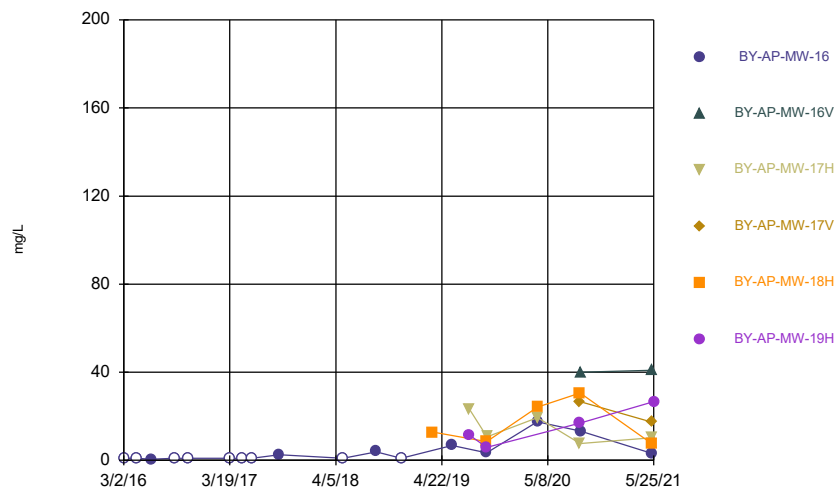
Constituent: Sulfate Analysis Run 7/14/2021 12:26 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



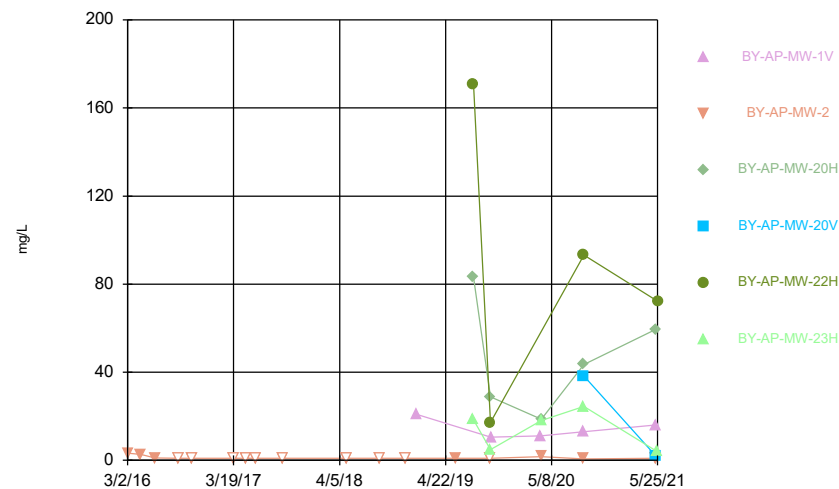
Constituent: Sulfate Analysis Run 7/14/2021 12:26 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



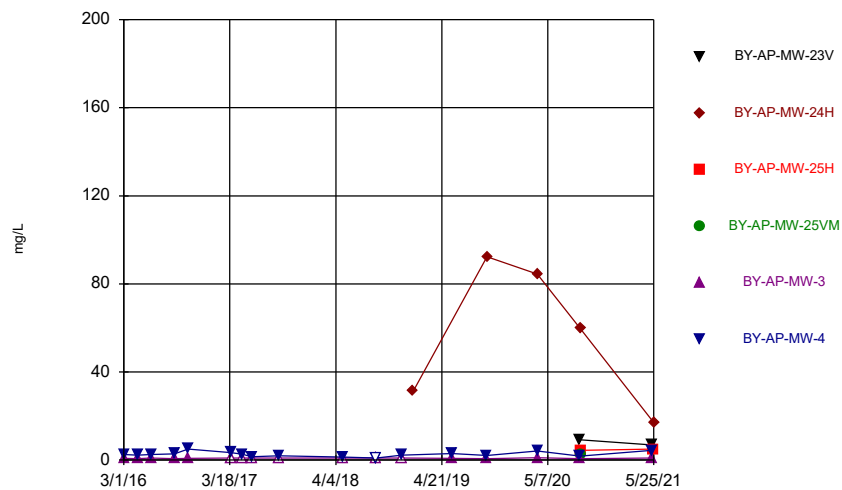
Constituent: Sulfate Analysis Run 7/14/2021 12:26 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



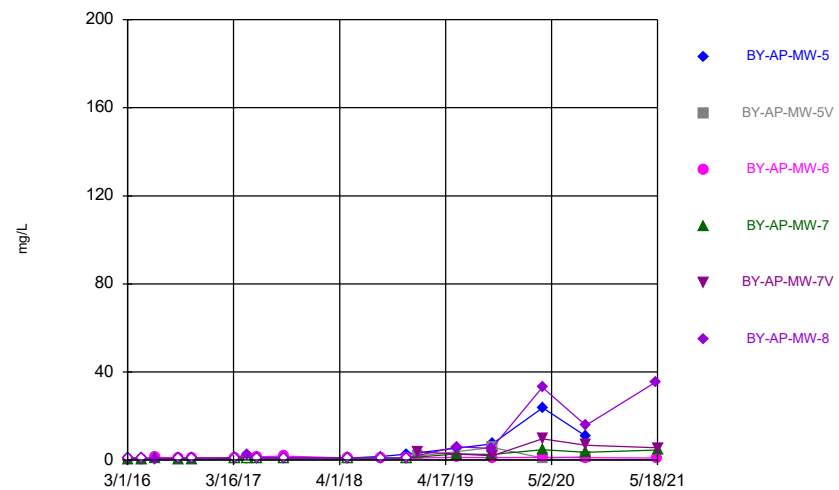
Constituent: Sulfate Analysis Run 7/14/2021 12:26 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



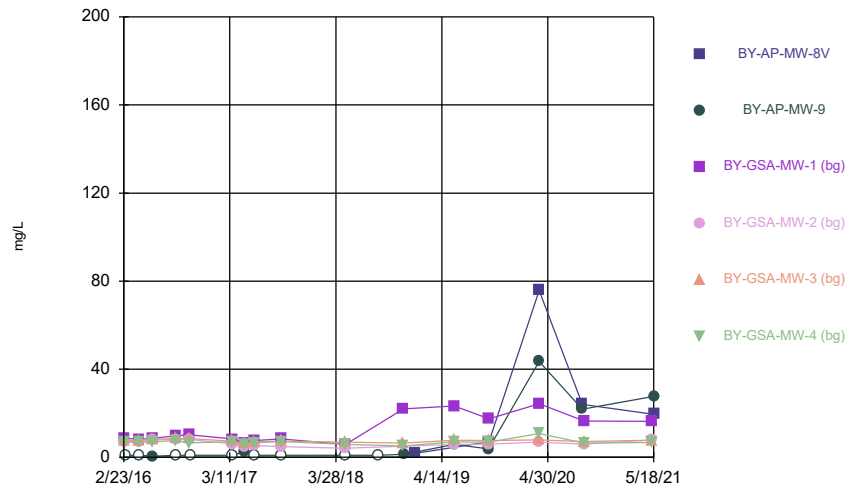
Constituent: Sulfate Analysis Run 7/14/2021 12:26 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



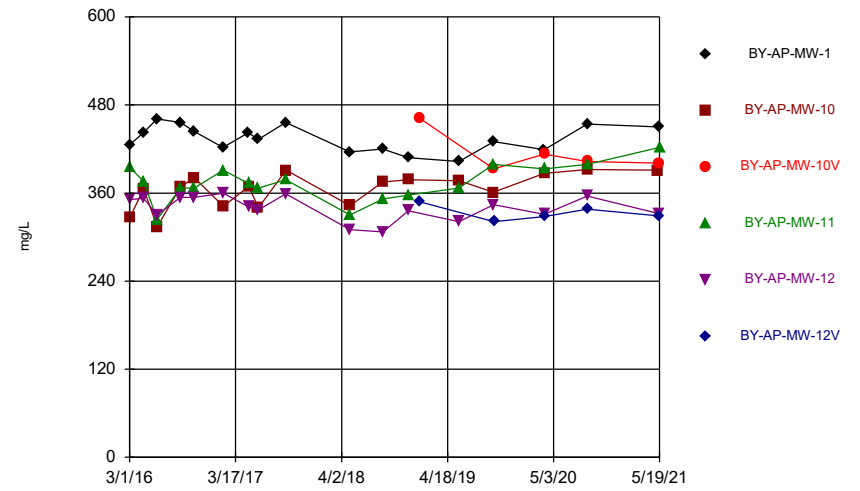
Constituent: Sulfate Analysis Run 7/14/2021 12:26 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



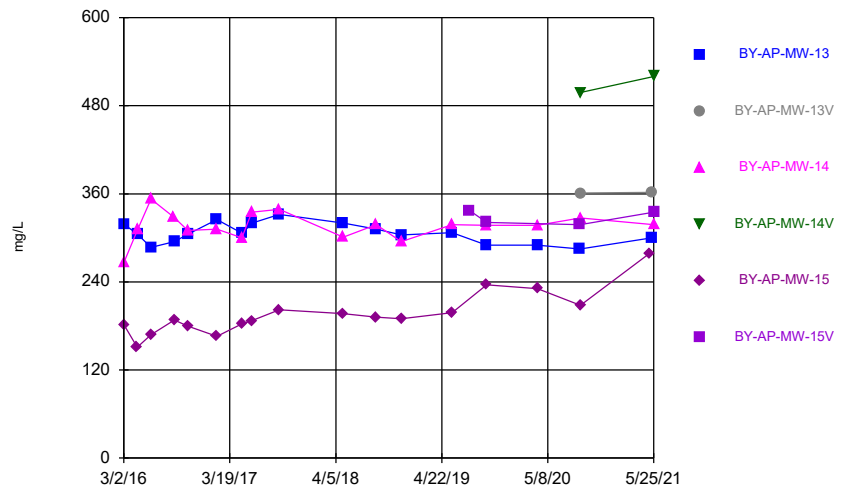
Constituent: Sulfate Analysis Run 7/14/2021 12:26 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



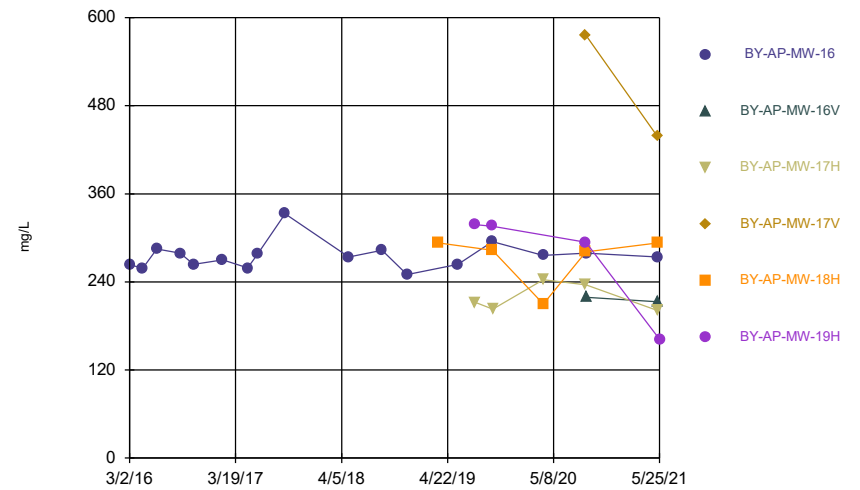
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



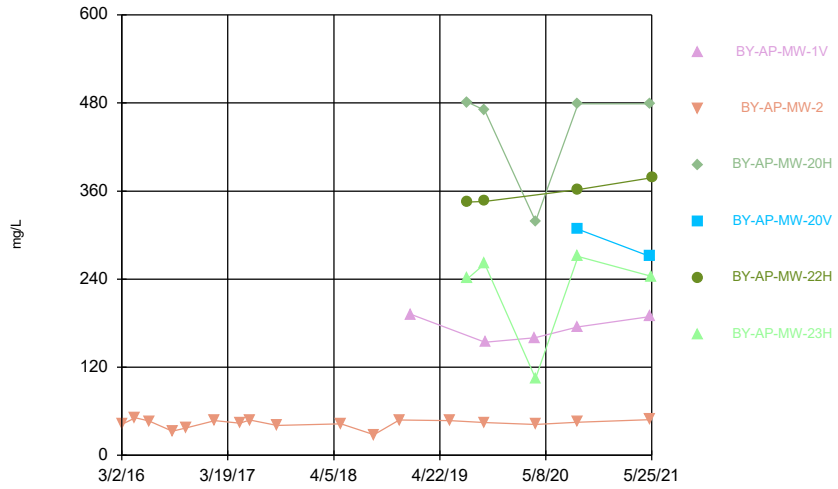
Constituent: TDS Analysis Run 7/14/2021 12:26 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



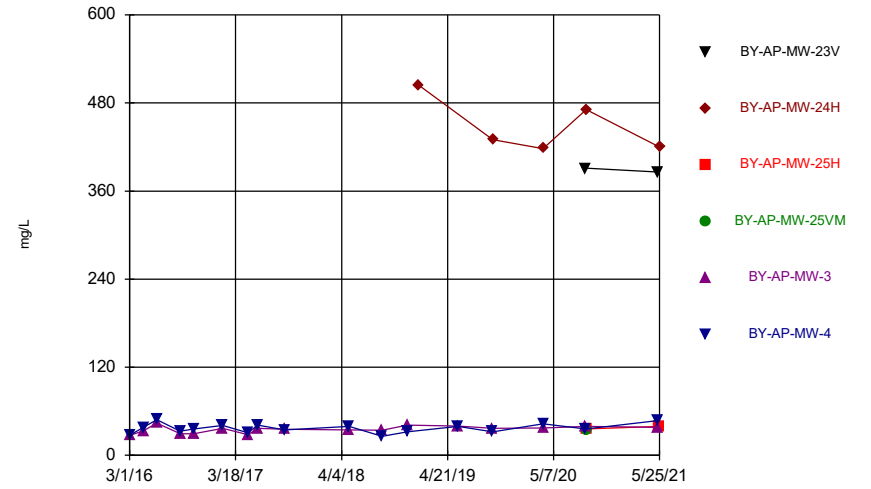
Constituent: TDS Analysis Run 7/14/2021 12:26 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



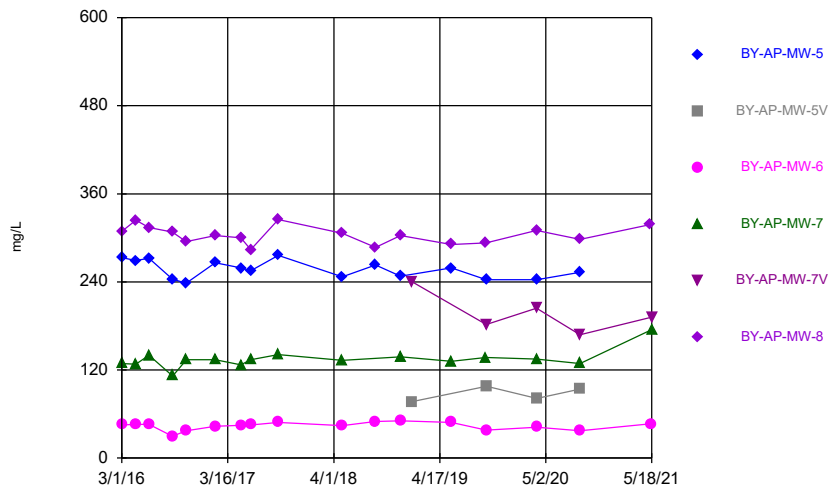
Constituent: TDS Analysis Run 7/14/2021 12:26 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



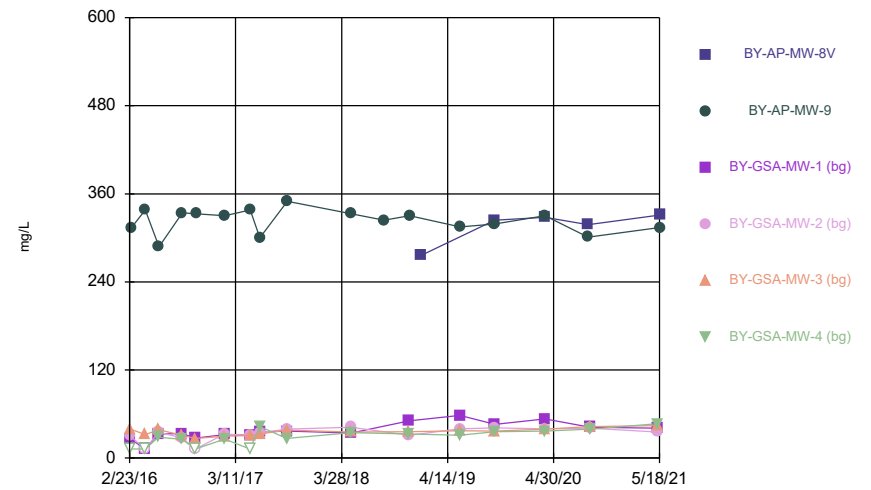
Constituent: TDS Analysis Run 7/14/2021 12:26 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



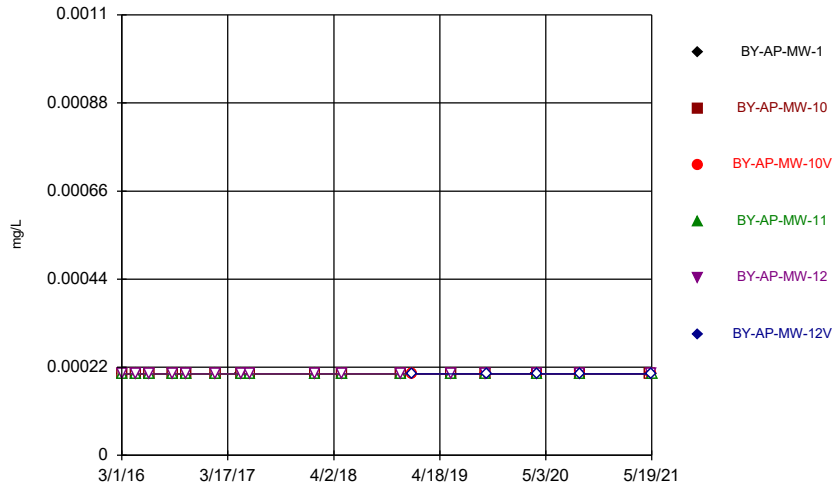
Constituent: TDS Analysis Run 7/14/2021 12:26 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



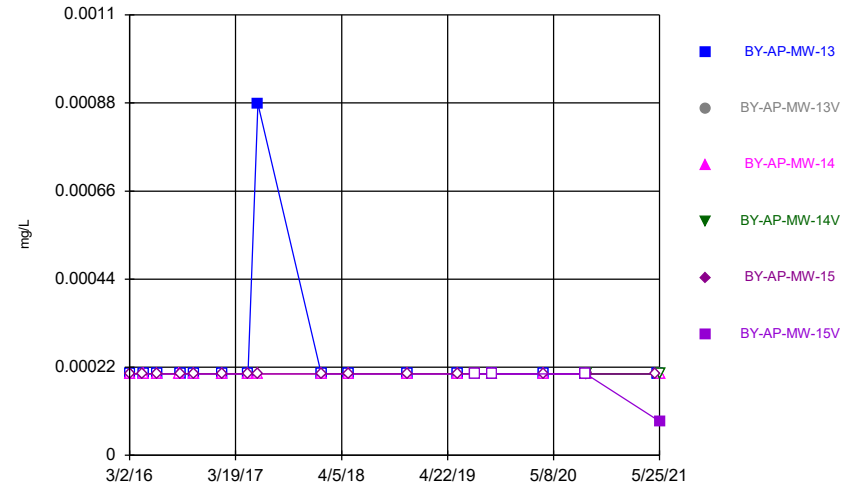
Constituent: TDS Analysis Run 7/14/2021 12:26 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



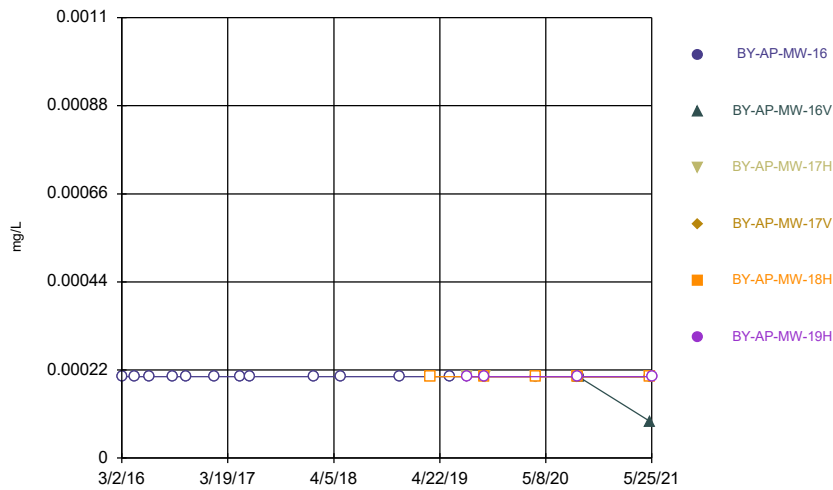
Constituent: Thallium Analysis Run 7/14/2021 12:26 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



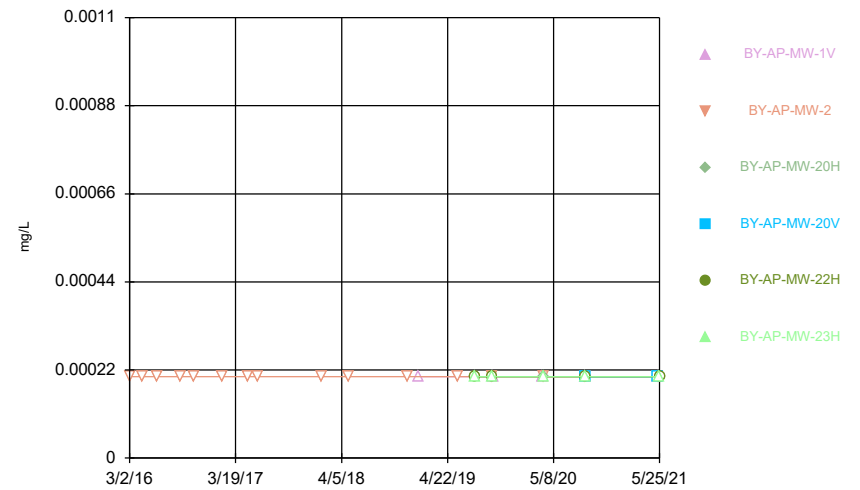
Constituent: Thallium Analysis Run 7/14/2021 12:26 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



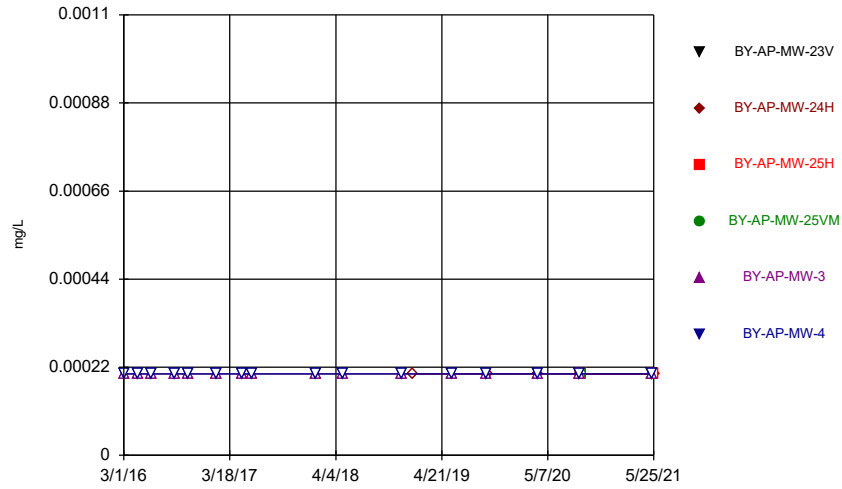
Constituent: Thallium Analysis Run 7/14/2021 12:26 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



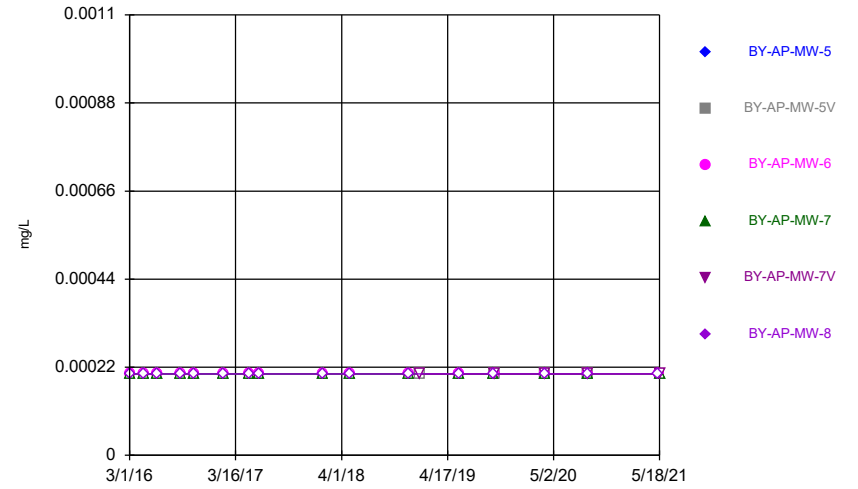
Constituent: Thallium Analysis Run 7/14/2021 12:26 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



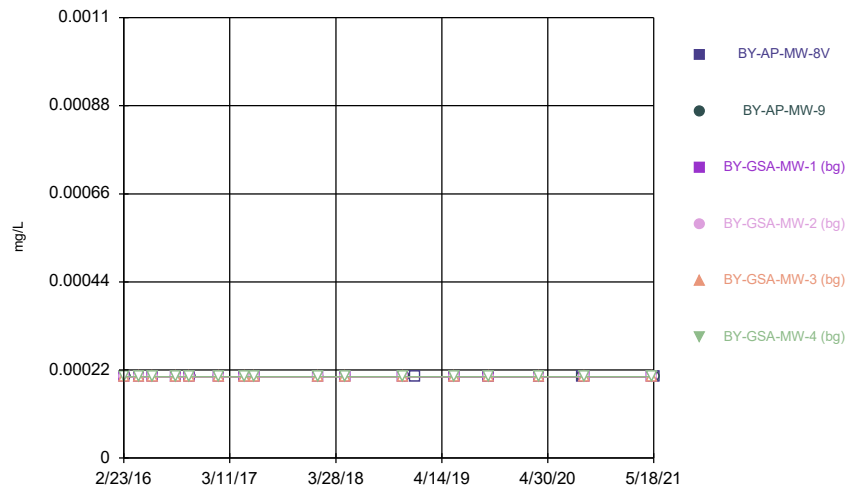
Constituent: Thallium Analysis Run 7/14/2021 12:26 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



Constituent: Thallium Analysis Run 7/14/2021 12:26 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



Constituent: Thallium Analysis Run 7/14/2021 12:26 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V
3/1/2016		<0.001015		<0.001015		
3/2/2016	<0.001015				<0.001015	
4/19/2016	<0.001015					
4/20/2016		<0.001015		<0.001015	<0.001015	
6/8/2016	<0.001015	<0.001015		<0.001015	<0.001015	
8/31/2016	<0.001015	<0.001015		<0.001015	<0.001015	
10/19/2016	<0.001015	<0.001015		<0.001015	<0.001015	
1/31/2017	0.000687 (J)					
2/1/2017		0.000743 (J)		0.000812 (J)	0.000838 (J)	
5/2/2017	<0.001015					
5/3/2017		<0.001015		<0.001015	<0.001015	
6/6/2017	<0.001015					
6/7/2017		<0.001015		<0.001015	<0.001015	
1/23/2018		<0.001015		<0.001015	<0.001015	
1/24/2018	<0.001015					
5/1/2018	<0.001015					
5/2/2018		<0.001015		<0.001015	<0.001015	
11/28/2018	<0.001015	<0.001015		<0.001015	<0.001015	
1/8/2019			0.000965 (J)			0.00117 (J)
5/29/2019	<0.001015			<0.001015	<0.001015	
5/30/2019		<0.001015				
9/30/2019		<0.001015		<0.001015		
10/1/2019	<0.001015		<0.001015		<0.001015	
10/2/2019						<0.001015
3/30/2020	<0.001015					
3/31/2020		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
9/1/2020	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
5/11/2021		<0.001015				
5/18/2021	<0.001015		<0.001015		<0.001015	<0.001015
5/19/2021				<0.001015		

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14	BY-AP-MW-14V	BY-AP-MW-15	BY-AP-MW-15V
3/2/2016	<0.001015		<0.001015		<0.001015	
4/19/2016					<0.001015	
4/20/2016	<0.001015		<0.001015			
6/8/2016	0.00111 (J)		<0.001015		<0.001015	
8/30/2016			<0.001015			
8/31/2016	<0.001015				<0.001015	
10/18/2016			<0.001015			
10/19/2016	<0.001015				<0.001015	
1/31/2017	0.000834 (J)		0.00086 (J)		0.000746 (J)	
5/2/2017			<0.001015		<0.001015	
5/3/2017	<0.001015					
6/6/2017			<0.001015		<0.001015	
6/7/2017	0.000857 (J)					
1/22/2018	<0.001015				<0.001015	
1/23/2018			<0.001015			
5/1/2018					<0.001015	
5/2/2018	<0.001015		<0.001015			
11/27/2018			<0.001015		<0.001015	
11/28/2018	<0.001015					
5/29/2019	<0.001015		<0.001015		<0.001015	
7/31/2019						0.00094 (J)
10/1/2019	<0.001015		<0.001015		<0.001015	<0.001015
3/31/2020	<0.001015		<0.001015			
4/1/2020					<0.001015	
9/1/2020	<0.001015					<0.001015
9/2/2020		<0.001015	<0.001015	<0.001015	<0.001015	
5/11/2021					<0.001015	
5/19/2021	<0.001015	<0.001015				
5/25/2021			<0.001015	<0.001015		<0.001015

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H
3/2/2016	<0.001015					
4/19/2016	<0.001015					
6/8/2016	<0.001015					
8/31/2016	<0.001015					
10/19/2016	<0.001015					
1/31/2017	0.000769 (J)					
5/2/2017	<0.001015					
6/6/2017	<0.001015					
1/23/2018	<0.001015					
5/1/2018	<0.001015					
11/27/2018	<0.001015					
3/20/2019				0.00117 (J)		
5/29/2019	<0.001015					
7/31/2019			0.000878 (J)			0.00152 (J)
10/1/2019	<0.001015			<0.001015		<0.001015
10/2/2019			<0.001015			
3/31/2020	<0.001015					
4/1/2020			<0.001015	<0.001015		
9/1/2020			<0.001015	<0.001015	<0.001015	<0.001015
9/2/2020	<0.001015	<0.001015				
5/17/2021			<0.001015			
5/18/2021				<0.001015		
5/19/2021	<0.001015	<0.001015			<0.001015	
5/25/2021						<0.001015

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1V	BY-AP-MW-2	BY-AP-MW-20H	BY-AP-MW-20V	BY-AP-MW-22H	BY-AP-MW-23H
3/2/2016		<0.001015				
4/19/2016		<0.001015				
6/8/2016		<0.001015				
8/31/2016		<0.001015				
10/19/2016		<0.001015				
1/31/2017		0.000739 (J)				
5/2/2017		<0.001015				
6/6/2017		<0.001015				
1/24/2018		<0.001015				
5/1/2018		<0.001015				
11/27/2018		<0.001015				
1/8/2019	0.00125 (J)					
5/29/2019		<0.001015				
7/31/2019			0.00113 (J)		0.00117 (J)	0.000964 (J)
10/1/2019		<0.001015	<0.001015		<0.001015	<0.001015
10/2/2019	<0.001015					
3/30/2020	<0.001015					
3/31/2020		<0.001015				
4/1/2020			<0.001015			<0.001015
8/31/2020		<0.001015				
9/1/2020	<0.001015		<0.001015	<0.001015	<0.001015	<0.001015
5/18/2021	<0.001015	<0.001015				
5/19/2021			<0.001015	<0.001015		
5/24/2021						<0.001015
5/25/2021					<0.001015	

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-25VM	BY-AP-MW-3	BY-AP-MW-4
3/1/2016						<0.001015
3/2/2016					<0.001015	
4/19/2016					<0.001015	<0.001015
6/7/2016					0.000606 (J)	0.000869 (J)
8/30/2016						<0.001015
8/31/2016					<0.001015	
10/19/2016					<0.001015	<0.001015
1/31/2017					0.000637 (J)	0.00086 (J)
5/2/2017					<0.001015	<0.001015
6/6/2017					<0.001015	<0.001015
1/24/2018					<0.001015	<0.001015
5/1/2018					<0.001015	<0.001015
11/27/2018					<0.001015	<0.001015
1/8/2019		0.00116 (J)				
5/29/2019					<0.001015	<0.001015
10/1/2019					<0.001015	<0.001015
10/2/2019		<0.001015				
3/31/2020		<0.001015			<0.001015	<0.001015
9/1/2020	<0.001015				<0.001015	<0.001015
9/2/2020		<0.001015	<0.001015	<0.001015		
5/17/2021	<0.001015					
5/18/2021					<0.001015	<0.001015
5/24/2021			<0.001015			
5/25/2021		<0.001015				

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-5	BY-AP-MW-5V	BY-AP-MW-6	BY-AP-MW-7	BY-AP-MW-7V	BY-AP-MW-8
3/1/2016	<0.001015		<0.001015	<0.001015		<0.001015
4/19/2016			<0.001015			
4/20/2016	<0.001015			<0.001015		<0.001015
6/7/2016	<0.001015		<0.001015	<0.001015		<0.001015
8/30/2016	<0.001015		<0.001015			<0.001015
8/31/2016				<0.001015		
10/18/2016	<0.001015					<0.001015
10/19/2016			<0.001015	<0.001015		
1/31/2017	0.000765 (J)		0.000852 (J)	0.00107 (J)		0.00074 (J)
5/3/2017	<0.001015		<0.001015	<0.001015		<0.001015
6/7/2017	<0.001015		<0.001015	<0.001015		<0.001015
1/24/2018	<0.001015		<0.001015	<0.001015		<0.001015
5/2/2018	<0.001015		<0.001015	<0.001015		<0.001015
11/27/2018	<0.001015					<0.001015
11/28/2018			<0.001015	<0.001015		
1/8/2019		0.00207 (J)				
1/9/2019					0.000861 (J)	
5/29/2019	<0.001015		<0.001015	<0.001015		<0.001015
9/30/2019				<0.001015		<0.001015
10/1/2019	<0.001015		<0.001015		<0.001015	
10/2/2019		<0.001015				
3/30/2020				<0.001015	<0.001015	<0.001015
3/31/2020	<0.001015	<0.001015	<0.001015			
9/1/2020	<0.001015	<0.001015				
9/2/2020			<0.001015	<0.001015	<0.001015	<0.001015
5/11/2021						<0.001015
5/17/2021			<0.001015			
5/18/2021				<0.001015	<0.001015	

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-8V	BY-AP-MW-9	BY-GSA-MW-1 (bg)	BY-GSA-MW-2 (bg)	BY-GSA-MW-3 (bg)	BY-GSA-MW-4 (bg)
2/23/2016			<0.001015	<0.001015	<0.001015	0.000606 (J)
3/1/2016		<0.001015				
4/19/2016			<0.001015	<0.001015	<0.001015	<0.001015
4/20/2016		<0.001015				
6/6/2016			<0.001015			<0.001015
6/7/2016				<0.001015	<0.001015	
6/8/2016		<0.001015				
8/30/2016			<0.001015	<0.001015	<0.001015	<0.001015
8/31/2016		<0.001015				
10/18/2016			<0.001015	<0.001015	<0.001015	<0.001015
10/19/2016		<0.001015				
1/31/2017			0.000925 (J)	0.000898 (J)	0.000911 (J)	0.000928 (J)
2/1/2017		0.000738 (J)				
5/2/2017			<0.001015	<0.001015	<0.001015	<0.001015
5/3/2017		<0.001015				
6/6/2017			<0.001015	<0.001015	<0.001015	<0.001015
6/7/2017		<0.001015				
1/23/2018		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
5/1/2018				<0.001015	<0.001015	<0.001015
5/2/2018		<0.001015	<0.001015			
11/26/2018						<0.001015
11/27/2018			<0.001015	<0.001015	<0.001015	
11/28/2018		<0.001015				
1/9/2019	<0.001015					
5/28/2019						<0.001015
5/29/2019			<0.001015	<0.001015	<0.001015	
5/30/2019		<0.001015				
9/30/2019		<0.001015				
10/1/2019	<0.001015					
10/2/2019			<0.001015	<0.001015	<0.001015	<0.001015
3/30/2020	<0.001015					
3/31/2020		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
9/2/2020	<0.001015	<0.001015				
9/8/2020						<0.001015
9/9/2020			<0.001015	<0.001015	<0.001015	
5/11/2021				<0.001015	<0.001015	<0.001015
5/12/2021			<0.001015			
5/18/2021	<0.001015	<0.001015				

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/14/2021 12:31 PM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V
3/1/2016		0.0264		0.01		
3/2/2016	0.076				0.0215	
4/19/2016	0.0973					
4/20/2016		0.0303		0.0127	0.0214	
6/8/2016	0.0605	0.0306		0.0136	0.0221	
8/31/2016	0.0687	0.0304		0.0149	0.0223	
10/19/2016	0.0701	0.0314		0.0149	0.0227	
1/31/2017	0.0669					
2/1/2017		0.0274		0.0151	0.0215	
5/2/2017	0.0672					
5/3/2017		0.03		0.0155	0.0227	
6/6/2017	0.0527					
6/7/2017		0.0303		0.0145	0.0211	
1/23/2018		0.0362		0.0154	0.0227	
1/24/2018	0.07					
5/1/2018	0.0777					
5/2/2018		0.0433		0.0158	0.0239	
11/28/2018	0.0677	0.0536		0.014	0.0216	
1/8/2019			<0.000203			0.0112
5/29/2019	0.0555			0.0132	0.0215	
5/30/2019		0.0671				
7/31/2019		0.0649				
9/30/2019		0.0704		0.0145		
10/1/2019	0.0635		<0.000203		0.0221	
10/2/2019						0.022
3/30/2020	0.0557					
3/31/2020		0.0702	<0.000203	0.0158	0.0246	0.025
9/1/2020	0.0811	0.0763	<0.000203	0.0165	0.0246	0.0257
5/11/2021		0.0762				
5/18/2021	0.0687		0.000356		0.0237	0.0251
5/19/2021				0.0166		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/14/2021 12:31 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14	BY-AP-MW-14V	BY-AP-MW-15	BY-AP-MW-15V
3/2/2016	0.0115		0.0101		0.0128	
4/19/2016					0.0157	
4/20/2016	0.0123		0.0119			
6/8/2016	0.0121		0.0119		0.0168	
8/30/2016			0.0127			
8/31/2016	0.0127				0.0168	
10/18/2016			0.0136			
10/19/2016	0.0131				0.0178	
1/31/2017	0.0131		0.0124		0.0164	
5/2/2017			0.0131		0.0172	
5/3/2017	0.014					
6/6/2017			0.0129		0.0158	
6/7/2017	0.0141					
1/22/2018	0.0149				0.0173	
1/23/2018			0.0148			
5/1/2018					0.0181	
5/2/2018	0.0175		0.0156			
11/27/2018			0.0145		0.0158	
11/28/2018	0.0141					
5/29/2019	0.0138		0.014		0.0148	
7/31/2019						0.0174
10/1/2019	0.0144		0.0152		0.017	0.0243
3/31/2020	0.0154		0.0177			
4/1/2020					0.0183	
9/1/2020	0.0148					0.0401
9/2/2020		0.00708	0.0174	0.00433 (J)	0.0206	
5/11/2021					0.0184	
5/19/2021	0.014	0.00877				
5/25/2021			0.0172	0.00324		0.0233

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/14/2021 12:31 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H
3/2/2016	0.0102					
4/19/2016	0.0103					
6/8/2016	0.0105					
8/31/2016	0.0117					
10/19/2016	0.0108					
1/31/2017	0.0102					
5/2/2017	0.0102					
6/6/2017	0.00982					
1/23/2018	0.0151					
5/1/2018	0.0114					
11/27/2018	0.0108					
3/20/2019				0.00831		
5/29/2019	0.0106					
7/31/2019			0.0221			0.00118 (J)
10/1/2019	0.0138			0.0137		<0.000203
10/2/2019			0.0251			
3/31/2020	0.012					
4/1/2020			0.0208		0.00937	
9/1/2020			0.0371	0.00472 (J)	0.015	0.00101 (J)
9/2/2020	0.0137	0.0012 (J)				
5/17/2021			0.0329			
5/18/2021				0.00546		
5/19/2021	0.0118	0.00123			0.0147	
5/25/2021						0.0015

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/14/2021 12:31 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1V	BY-AP-MW-2	BY-AP-MW-20H	BY-AP-MW-20V	BY-AP-MW-22H	BY-AP-MW-23H
3/2/2016		0.00263 (J)				
4/19/2016		0.00247 (J)				
6/8/2016		0.0023 (J)				
8/31/2016		0.00237 (J)				
10/19/2016		0.00241 (J)				
1/31/2017		0.00185 (J)				
5/2/2017		0.00194 (J)				
6/6/2017		0.00175 (J)				
1/24/2018		0.00158 (J)				
5/1/2018		0.00166 (J)				
11/27/2018		0.00144 (J)				
1/8/2019	0.00109 (J)					
5/29/2019		0.00132 (J)				
7/31/2019			0.0112		0.0225	0.0132
10/1/2019		0.0014 (J)	0.013		0.0225	0.013
10/2/2019	0.00157 (J)					
3/30/2020	0.00152 (J)					
3/31/2020		0.00149 (J)				
4/1/2020			0.00508			0.00689
8/31/2020		0.00176 (J)				
9/1/2020	0.00179 (J)		0.0172	0.00845	0.0217	0.0226
5/18/2021	0.00144	0.00159				
5/19/2021			0.0132	0.0148		
5/24/2021						0.0133
5/25/2021					0.0191	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/14/2021 12:31 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-25VM	BY-AP-MW-3	BY-AP-MW-4
3/1/2016						<0.000203
3/2/2016					<0.000203	
4/19/2016					<0.000203	<0.000203
6/7/2016					<0.000203	<0.000203
8/30/2016						<0.000203
8/31/2016					<0.000203	
10/19/2016					<0.000203	<0.000203
1/31/2017					<0.000203	<0.000203
5/2/2017					<0.000203	<0.000203
6/6/2017					<0.000203	<0.000203
1/24/2018					<0.000203	<0.000203
5/1/2018					<0.000203	<0.000203
11/27/2018					<0.000203	<0.000203
1/8/2019		0.0306				
5/29/2019					<0.000203	<0.000203
10/1/2019					<0.000203	<0.000203
10/2/2019		0.0673				
3/31/2020		0.0729			<0.000203	<0.000203
9/1/2020	<0.000203				<0.000203	<0.000203
9/2/2020		0.0783	<0.000203	<0.000203		
5/17/2021	0.00119					
5/18/2021					<0.000203	0.000125 (J)
5/24/2021			8.73E-05 (J)			
5/25/2021		0.0693				

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/14/2021 12:31 PM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-5	BY-AP-MW-5V	BY-AP-MW-6	BY-AP-MW-7	BY-AP-MW-7V	BY-AP-MW-8
3/1/2016	0.0277		0.00142 (J)	0.0166		0.036
4/19/2016			0.00138 (J)			
4/20/2016	0.0307			0.02		0.0399
6/7/2016	0.0308		<0.000203	0.0223		0.0401
8/30/2016	0.033		<0.000203			0.0387
8/31/2016				0.0231		
10/18/2016	0.0296					0.0394
10/19/2016			<0.000203	0.0244		
1/31/2017	0.0264		<0.000203	0.0197		0.0408
5/3/2017	0.0309		<0.000203	0.0212		0.0416
6/7/2017	0.0283		<0.000203	0.0203		0.0395
1/24/2018	0.0282		<0.000203	0.0214		0.0536
5/2/2018	0.0315		<0.000203	0.0218		0.0572
11/27/2018	0.0283					0.0536
11/28/2018			<0.000203	0.0209		
1/8/2019		<0.000203				
1/9/2019					<0.000203	
5/29/2019	0.0301		<0.000203	0.0178		0.0482
9/30/2019				0.0217		0.0514
10/1/2019	0.0307		<0.000203		0.00278 (J)	
10/2/2019		<0.000203				
3/30/2020				0.0215	0.005	0.0589
3/31/2020	0.0329	<0.000203	<0.000203			
9/1/2020	0.0372	<0.000203				
9/2/2020			<0.000203	0.0234	0.0024 (J)	0.0629
5/11/2021						0.0659
5/17/2021			0.000103 (J)			
5/18/2021				0.0215	0.00242	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/14/2021 12:31 PM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-8V	BY-AP-MW-9	BY-GSA-MW-1 (bg)	BY-GSA-MW-2 (bg)	BY-GSA-MW-3 (bg)	BY-GSA-MW-4 (bg)
2/23/2016			<0.000203	<0.000203	<0.000203	<0.000203
3/1/2016		0.0322				
4/19/2016			<0.000203	<0.000203	<0.000203	<0.000203
4/20/2016		0.0354				
6/6/2016			<0.000203			<0.000203
6/7/2016				<0.000203	<0.000203	
6/8/2016		0.0385				
8/30/2016			<0.000203	<0.000203	<0.000203	<0.000203
8/31/2016		0.0404				
10/18/2016			<0.000203	<0.000203	<0.000203	<0.000203
10/19/2016		0.0412				
1/31/2017			<0.000203	<0.000203	<0.000203	<0.000203
2/1/2017		0.0374				
5/2/2017			<0.000203	<0.000203	<0.000203	<0.000203
5/3/2017		0.0444				
6/6/2017			<0.000203	<0.000203	<0.000203	<0.000203
6/7/2017		0.0423				
1/23/2018		0.0435	<0.000203	<0.000203	<0.000203	<0.000203
5/1/2018				<0.000203	<0.000203	<0.000203
5/2/2018		0.0437	<0.000203			
11/26/2018						<0.000203
11/27/2018			<0.000203	<0.000203	<0.000203	
11/28/2018		0.0422				
1/9/2019	0.00121 (J)					
5/28/2019						<0.000203
5/29/2019			<0.000203	<0.000203	<0.000203	
5/30/2019		0.0349				
9/30/2019		0.0391				
10/1/2019	0.00243 (J)					
10/2/2019			<0.000203	<0.000203	<0.000203	<0.000203
3/30/2020	0.00275 (J)					
3/31/2020		0.0393	<0.000203	<0.000203	<0.000203	0.0017 (J)
9/2/2020	0.00346 (J)	0.0432				
9/8/2020						<0.000203
9/9/2020			<0.000203	<0.000203	<0.000203	
5/11/2021				0.000136 (J)	<0.000203	0.000217
5/12/2021			0.000336			
5/18/2021	0.00398	0.0435				

Time Series

Constituent: Barium (mg/L) Analysis Run 7/14/2021 12:31 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V
3/1/2016		0.0634		0.122		
3/2/2016	0.219				0.0815	
4/19/2016	0.201					
4/20/2016		0.0622		0.11	0.0692	
6/8/2016	0.274	0.0642		0.105	0.0763	
8/31/2016	0.296	0.063		0.102	0.0741	
10/19/2016	0.281	0.0577		0.0953	0.0727	
1/31/2017	0.211					
2/1/2017		0.0607		0.0917	0.0701	
5/2/2017	0.29					
5/3/2017		0.0665		0.0951	0.078	
6/6/2017	0.25					
6/7/2017		0.0632		0.0864	0.0682	
1/23/2018		0.0673		0.0868	0.0744	
1/24/2018	0.289					
5/1/2018	0.28					
5/2/2018		0.0752		0.0816	0.0814	
11/28/2018	0.271	0.066		0.0796	0.0788	
1/8/2019			0.149			0.144
5/29/2019	0.29			0.0653	0.0769	
5/30/2019		0.063				
9/30/2019		0.0669		0.0759		
10/1/2019	0.293		0.167		0.0795	
10/2/2019						0.101
3/30/2020	0.279					
3/31/2020		0.0727	0.184	0.0842	0.0851	0.0939
9/1/2020	0.33	0.078	0.203	0.0923	0.0827	0.102
5/11/2021		0.0757				
5/18/2021	0.339		0.212		0.0902	0.111
5/19/2021				0.112		

Time Series

Constituent: Barium (mg/L) Analysis Run 7/14/2021 12:31 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14	BY-AP-MW-14V	BY-AP-MW-15	BY-AP-MW-15V
3/2/2016	0.0947		0.0491		0.0468	
4/19/2016					0.043	
4/20/2016	0.0758		0.049			
6/8/2016	0.071		0.0627		0.0465	
8/30/2016			0.0635			
8/31/2016	0.0722				0.0464	
10/18/2016			0.0603			
10/19/2016	0.0707				0.0481	
1/31/2017	0.0686		0.0533		0.0427	
5/2/2017			0.0616		0.0473	
5/3/2017	0.0756					
6/6/2017			0.0585		0.0437	
6/7/2017	0.0695					
1/22/2018	0.0688				0.0501	
1/23/2018			0.0608			
5/1/2018					0.0575	
5/2/2018	0.0806		0.0614			
11/27/2018			0.0589		0.0557	
11/28/2018	0.0697					
5/29/2019	0.0704		0.0617		0.0562	
7/31/2019						0.144
10/1/2019	0.0696		0.0605		0.0628	0.13
3/31/2020	0.0728		0.0619			
4/1/2020					0.0697	
9/1/2020	0.0722					0.134
9/2/2020		0.109	0.0687	0.0766	0.0736	
5/11/2021					0.0762	
5/19/2021	0.0817	0.114				
5/25/2021			0.0745	0.0729		0.184

Time Series

Constituent: Barium (mg/L) Analysis Run 7/14/2021 12:31 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H
3/2/2016	0.0921					
4/19/2016	0.0775					
6/8/2016	0.0798					
8/31/2016	0.0801					
10/19/2016	0.0766					
1/31/2017	0.075					
5/2/2017	0.0761					
6/6/2017	0.07					
1/23/2018	0.0779					
5/1/2018	0.0877					
11/27/2018	0.0792					
3/20/2019				0.152		
5/29/2019	0.081					
7/31/2019			0.138			0.14
10/1/2019	0.0803			0.126		0.113
10/2/2019			0.117			
3/31/2020	0.091					
4/1/2020			0.194		0.109	
9/1/2020			0.114	0.277	0.123	0.159
9/2/2020	0.0954	0.0733				
5/17/2021			0.125			
5/18/2021				0.255		
5/19/2021	0.102	0.0743			0.147	
5/25/2021						0.104

Time Series

Constituent: Barium (mg/L) Analysis Run 7/14/2021 12:31 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1V	BY-AP-MW-2	BY-AP-MW-20H	BY-AP-MW-20V	BY-AP-MW-22H	BY-AP-MW-23H
3/2/2016		0.0285				
4/19/2016		0.0268				
6/8/2016		0.0248				
8/31/2016		0.026				
10/19/2016		0.0247				
1/31/2017		0.0228				
5/2/2017		0.0257				
6/6/2017		0.0219				
1/24/2018		0.0229				
5/1/2018		0.0279				
11/27/2018		0.0249				
1/8/2019	0.0826					
5/29/2019		0.0232				
7/31/2019			0.0928		0.185	0.162
10/1/2019		0.0241	0.0913		0.213	0.175
10/2/2019	0.0611					
3/30/2020	0.062					
3/31/2020		0.0264				
4/1/2020			0.119			0.0629
8/31/2020		0.0275				
9/1/2020	0.0795		0.11	0.115	0.234	0.182
5/18/2021	0.0861	0.0259				
5/19/2021			0.111	0.107		
5/24/2021						0.208
5/25/2021					0.261	

Time Series

Constituent: Barium (mg/L) Analysis Run 7/14/2021 12:31 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-25VM	BY-AP-MW-3	BY-AP-MW-4
3/1/2016						0.018
3/2/2016					0.0306	
4/19/2016					0.0292	0.0166
6/7/2016					0.0318	0.0271
8/30/2016						0.0312
8/31/2016					0.0324	
10/19/2016					0.0313	0.0443
1/31/2017					0.0306	0.0231
5/2/2017					0.0332	0.0241
6/6/2017					0.0275	0.0276
1/24/2018					0.0317	0.0293
5/1/2018					0.0356	0.0205
11/27/2018					0.0339	0.0321
1/8/2019		0.294				
5/29/2019					0.037	0.0203
10/1/2019					0.0356	0.0207
10/2/2019		0.229				
3/31/2020		0.243			0.0393	0.0193
9/1/2020	0.00933 (J)				0.038	0.0131
9/2/2020		0.26	0.0204	0.0111		
5/17/2021	0.0094					
5/18/2021					0.0406	0.0225
5/24/2021			0.0206			
5/25/2021		0.26				

Time Series

Constituent: Barium (mg/L) Analysis Run 7/14/2021 12:31 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-5	BY-AP-MW-5V	BY-AP-MW-6	BY-AP-MW-7	BY-AP-MW-7V	BY-AP-MW-8
3/1/2016	0.136		0.0278	0.0519		0.142
4/19/2016			0.0242			
4/20/2016	0.132			0.0517		0.143
6/7/2016	0.141		0.0223	0.0577		0.145
8/30/2016	0.136		0.0242			0.147
8/31/2016				0.0614		
10/18/2016	0.125					0.14
10/19/2016			0.024	0.0618		
1/31/2017	0.125		0.0248	0.0576		0.134
5/3/2017	0.146		0.0268	0.0601		0.145
6/7/2017	0.126		0.0256	0.054		0.128
1/24/2018	0.127		0.0254	0.0568		0.129
5/2/2018	0.154		0.0276	0.063		0.149
11/27/2018	0.139					0.143
11/28/2018			0.0231	0.0654		
1/8/2019		0.0372				
1/9/2019				0.112		
5/29/2019	0.146		0.0244	0.059		0.138
9/30/2019				0.0648		0.138
10/1/2019	0.138		0.0257		0.0541	
10/2/2019		0.0338				
3/30/2020				0.059	0.0519	0.141
3/31/2020	0.15	0.0313	0.0244			
9/1/2020	0.154	0.0399				
9/2/2020			0.0282	0.0745	0.0648	0.151
5/11/2021						0.147
5/17/2021			0.0305			
5/18/2021				0.07	0.0805	

Time Series

Constituent: Barium (mg/L) Analysis Run 7/14/2021 12:31 PM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-8V	BY-AP-MW-9	BY-GSA-MW-1 (bg)	BY-GSA-MW-2 (bg)	BY-GSA-MW-3 (bg)	BY-GSA-MW-4 (bg)
2/23/2016			0.117	0.111	0.0862	0.0973
3/1/2016		0.114				
4/19/2016			0.099	0.0875	0.0718	0.0802
4/20/2016		0.114				
6/6/2016			0.107			0.0862
6/7/2016				0.0979	0.0754	
6/8/2016		0.128				
8/30/2016			0.106	0.108	0.0768	0.0841
8/31/2016		0.123				
10/18/2016			0.102	0.103	0.0727	0.0715
10/19/2016		0.118				
1/31/2017			0.0944	0.109	0.0698	0.0825
2/1/2017		0.104				
5/2/2017			0.0868	0.125	0.0723	0.0777
5/3/2017		0.126				
6/6/2017			0.0799	0.108	0.07	0.078
6/7/2017		0.111				
1/23/2018		0.115	0.0884	0.153	0.0747	0.0825
5/1/2018				0.167	0.0877	0.102
5/2/2018		0.125	0.137			
11/26/2018						0.0994
11/27/2018			0.157	0.158	0.0804	
11/28/2018		0.119				
1/9/2019	0.337					
5/28/2019						0.102
5/29/2019			0.166	0.172	0.0831	
5/30/2019		0.112				
9/30/2019		0.117				
10/1/2019	0.264					
10/2/2019			0.129	0.183	0.089	0.111
3/30/2020	0.264					
3/31/2020		0.119	0.176	0.171	0.0927	0.129
9/2/2020	0.289	0.124				
9/8/2020						0.125
9/9/2020			0.124	0.172	0.0919	
5/11/2021				0.165	0.0981	0.125
5/12/2021			0.123			
5/18/2021	0.299	0.125				

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V
3/1/2016		<0.001015		<0.001015		
3/2/2016	<0.001015				<0.001015	
4/19/2016	<0.001015					
4/20/2016		<0.001015		<0.001015	<0.001015	
6/8/2016	<0.001015	<0.001015		<0.001015	<0.001015	
8/31/2016	<0.001015	<0.001015		<0.001015	<0.001015	
10/19/2016	<0.001015	<0.001015		<0.001015	<0.001015	
1/31/2017	<0.001015					
2/1/2017		<0.001015		<0.001015	<0.001015	
5/2/2017	<0.001015					
5/3/2017		<0.001015		<0.001015	<0.001015	
6/6/2017	<0.001015					
6/7/2017		<0.001015		<0.001015	<0.001015	
1/23/2018		<0.001015		<0.001015	<0.001015	
1/24/2018	<0.001015					
5/1/2018	<0.001015					
5/2/2018		<0.001015		<0.001015	<0.001015	
11/28/2018	<0.001015	<0.001015		<0.001015	<0.001015	
1/8/2019			<0.001015			<0.001015
5/29/2019	<0.001015			<0.001015	<0.001015	
5/30/2019		<0.001015				
9/30/2019		<0.001015		<0.001015		
10/1/2019	<0.001015		<0.001015		<0.001015	
10/2/2019						<0.001015
3/30/2020	<0.001015					
3/31/2020		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
9/1/2020	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
5/11/2021		<0.001015				
5/18/2021	<0.001015		<0.001015		<0.001015	<0.001015
5/19/2021				<0.001015		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14	BY-AP-MW-14V	BY-AP-MW-15	BY-AP-MW-15V
3/2/2016	<0.001015		<0.001015		<0.001015	
4/19/2016					<0.001015	
4/20/2016	<0.001015		<0.001015			
6/8/2016	<0.001015		<0.001015		<0.001015	
8/30/2016			<0.001015			
8/31/2016	<0.001015				<0.001015	
10/18/2016			<0.001015			
10/19/2016	<0.001015				<0.001015	
1/31/2017	<0.001015		<0.001015		<0.001015	
5/2/2017			<0.001015		<0.001015	
5/3/2017	<0.001015					
6/6/2017			<0.001015		<0.001015	
6/7/2017	0.00103 (J)					
1/22/2018	<0.001015				<0.001015	
1/23/2018			<0.001015			
5/1/2018					<0.001015	
5/2/2018	<0.001015		<0.001015			
11/27/2018			<0.001015		<0.001015	
11/28/2018	<0.001015					
5/29/2019	<0.001015		<0.001015		<0.001015	
7/31/2019						<0.001015
10/1/2019	<0.001015		<0.001015		<0.001015	<0.001015
3/31/2020	<0.001015		<0.001015			
4/1/2020					<0.001015	
9/1/2020	<0.001015					<0.001015
9/2/2020		<0.001015	<0.001015	<0.001015	<0.001015	
5/11/2021					<0.001015	
5/19/2021	<0.001015	<0.001015				
5/25/2021			<0.001015	<0.001015		<0.001015

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H
3/2/2016	<0.001015					
4/19/2016	<0.001015					
6/8/2016	<0.001015					
8/31/2016	<0.001015					
10/19/2016	<0.001015					
1/31/2017	<0.001015					
5/2/2017	<0.001015					
6/6/2017	<0.001015					
1/23/2018	<0.001015					
5/1/2018	<0.001015					
11/27/2018	<0.001015					
3/20/2019				<0.001015		
5/29/2019	<0.001015					
7/31/2019			<0.001015			<0.001015
10/1/2019	<0.001015			<0.001015		<0.001015
10/2/2019			<0.001015			
3/31/2020	<0.001015					
4/1/2020			<0.001015	<0.001015		
9/1/2020			<0.001015	<0.001015	<0.001015	<0.001015
9/2/2020	<0.001015	<0.001015				
5/17/2021			<0.001015			
5/18/2021				<0.001015		
5/19/2021	<0.001015	<0.001015			<0.001015	
5/25/2021						<0.001015

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1V	BY-AP-MW-2	BY-AP-MW-20H	BY-AP-MW-20V	BY-AP-MW-22H	BY-AP-MW-23H
3/2/2016		<0.001015				
4/19/2016		<0.001015				
6/8/2016		<0.001015				
8/31/2016		<0.001015				
10/19/2016		<0.001015				
1/31/2017		<0.001015				
5/2/2017		<0.001015				
6/6/2017		<0.001015				
1/24/2018		<0.001015				
5/1/2018		<0.001015				
11/27/2018		<0.001015				
1/8/2019	<0.001015					
5/29/2019		<0.001015				
7/31/2019			<0.001015		<0.001015	<0.001015
10/1/2019		<0.001015	<0.001015		<0.001015	<0.001015
10/2/2019	<0.001015					
3/30/2020	<0.001015					
3/31/2020		<0.001015				
4/1/2020			<0.001015			<0.001015
8/31/2020		<0.001015				
9/1/2020	<0.001015		<0.001015	<0.001015	<0.001015	<0.001015
5/18/2021	<0.001015	<0.001015				
5/19/2021			<0.001015	<0.001015		
5/24/2021						<0.001015
5/25/2021					<0.001015	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-25VM	BY-AP-MW-3	BY-AP-MW-4
3/1/2016						<0.001015
3/2/2016					<0.001015	
4/19/2016					<0.001015	<0.001015
6/7/2016					<0.001015	<0.001015
8/30/2016						<0.001015
8/31/2016					<0.001015	
10/19/2016					<0.001015	<0.001015
1/31/2017					<0.001015	<0.001015
5/2/2017					<0.001015	<0.001015
6/6/2017					<0.001015	<0.001015
1/24/2018					<0.001015	<0.001015
5/1/2018					<0.001015	<0.001015
11/27/2018					<0.001015	0.00071 (J)
1/8/2019		<0.001015				
5/29/2019					<0.001015	<0.001015
10/1/2019					<0.001015	<0.001015
10/2/2019		<0.001015				
3/31/2020		<0.001015			<0.001015	<0.001015
9/1/2020	<0.001015				<0.001015	<0.001015
9/2/2020		<0.001015	<0.001015	<0.001015		
5/17/2021	<0.001015					
5/18/2021					<0.001015	<0.001015
5/24/2021			<0.001015			
5/25/2021		<0.001015				

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-5	BY-AP-MW-5V	BY-AP-MW-6	BY-AP-MW-7	BY-AP-MW-7V	BY-AP-MW-8
3/1/2016	<0.001015		<0.001015	<0.001015		<0.001015
4/19/2016			<0.001015			
4/20/2016	<0.001015			<0.001015		<0.001015
6/7/2016	<0.001015		<0.001015	<0.001015		<0.001015
8/30/2016	<0.001015		<0.001015			<0.001015
8/31/2016				<0.001015		
10/18/2016	<0.001015					<0.001015
10/19/2016			<0.001015	<0.001015		
1/31/2017	<0.001015		<0.001015	<0.001015		<0.001015
5/3/2017	<0.001015		<0.001015	<0.001015		<0.001015
6/7/2017	<0.001015		<0.001015	<0.001015		<0.001015
1/24/2018	<0.001015		<0.001015	<0.001015		<0.001015
5/2/2018	<0.001015		<0.001015	<0.001015		<0.001015
11/27/2018	<0.001015					<0.001015
11/28/2018			<0.001015	<0.001015		
1/8/2019		<0.001015				
1/9/2019					<0.001015	
5/29/2019	<0.001015		<0.001015	<0.001015		<0.001015
9/30/2019				<0.001015		<0.001015
10/1/2019	<0.001015		<0.001015		<0.001015	
10/2/2019		<0.001015				
3/30/2020				<0.001015	<0.001015	<0.001015
3/31/2020	<0.001015	<0.001015	<0.001015			
9/1/2020	<0.001015	<0.001015				
9/2/2020			<0.001015	<0.001015	<0.001015	<0.001015
5/11/2021						<0.001015
5/17/2021			<0.001015			
5/18/2021				<0.001015	<0.001015	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-8V	BY-AP-MW-9	BY-GSA-MW-1 (bg)	BY-GSA-MW-2 (bg)	BY-GSA-MW-3 (bg)	BY-GSA-MW-4 (bg)
2/23/2016			<0.001015	<0.001015	<0.001015	<0.001015
3/1/2016		<0.001015				
4/19/2016			<0.001015	<0.001015	<0.001015	<0.001015
4/20/2016		<0.001015				
6/6/2016			0.000612 (J)			<0.001015
6/7/2016				0.00093 (J)	<0.001015	
6/8/2016		<0.001015				
8/30/2016			<0.001015	<0.001015	<0.001015	<0.001015
8/31/2016		<0.001015				
10/18/2016			<0.001015	<0.001015	<0.001015	<0.001015
10/19/2016		<0.001015				
1/31/2017			<0.001015	<0.001015	<0.001015	<0.001015
2/1/2017		<0.001015				
5/2/2017			0.00069 (J)	<0.001015	<0.001015	<0.001015
5/3/2017		<0.001015				
6/6/2017			<0.001015	<0.001015	<0.001015	<0.001015
6/7/2017		<0.001015				
1/23/2018		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
5/1/2018				<0.001015	<0.001015	<0.001015
5/2/2018		<0.001015	<0.001015			
11/26/2018						<0.001015
11/27/2018				<0.001015		
11/28/2018		<0.001015				
1/9/2019	<0.001015					
5/28/2019						<0.001015
5/29/2019			<0.001015	<0.001015	<0.001015	
5/30/2019		<0.001015				
9/30/2019		<0.001015				
10/1/2019	<0.001015					
10/2/2019			<0.001015	<0.001015	<0.001015	<0.001015
3/30/2020	<0.001015					
3/31/2020		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
9/2/2020	<0.001015	<0.001015				
9/8/2020						<0.001015
9/9/2020			<0.001015	<0.001015	<0.001015	
5/11/2021				<0.001015	<0.001015	<0.001015
5/12/2021			0.000694 (J)			
5/18/2021	<0.001015	<0.001015				

Time Series

Constituent: Boron (mg/L) Analysis Run 7/14/2021 12:31 PM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V
3/1/2016		1.39		0.0482 (J)		
3/2/2016	2.03				0.0502 (J)	
4/19/2016	2.2					
4/20/2016		1.51		0.059 (J)	0.0672 (J)	
6/8/2016	1.61	1.62		0.0568 (J)	0.0659 (J)	
8/31/2016	1.55	1.73		0.0651 (J)	0.065 (J)	
10/19/2016	1.59	1.77		0.06 (J)	0.0721 (J)	
1/31/2017	1.84					
2/1/2017		1.42		0.0638 (J)	0.06 (J)	
5/2/2017	1.73					
5/3/2017		1.52		0.0655 (J)	0.0768 (J)	
6/6/2017	1.56					
6/7/2017		1.52		0.0468 (J)	0.0625 (J)	
9/13/2017	1.87			0.0751 (J)	0.0926 (J)	
9/14/2017		1.96				
5/1/2018	1.81					
5/2/2018		2		0.0545 (J)	0.064 (J)	
11/28/2018	1.8	2		0.0545 (J)	0.064 (J)	
1/8/2019			0.677			0.0939 (J)
5/29/2019	1.75			0.082 (J)	0.0952 (J)	
5/30/2019		2.11				
9/30/2019		2.02		0.103		
10/1/2019	1.91		1.02		0.0967 (J)	
10/2/2019						0.134
3/30/2020	1.77					
3/31/2020		2.12	1.04	0.0815 (J)	0.0856 (J)	0.101
9/1/2020	2.11	2.02	1.06	0.104	0.115	0.149
5/11/2021		1.99				
5/18/2021	1.99		0.971		0.0927 (J)	0.118
5/19/2021				0.0856 (J)		

Time Series

Constituent: Boron (mg/L) Analysis Run 7/14/2021 12:31 PM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14	BY-AP-MW-14V	BY-AP-MW-15	BY-AP-MW-15V
3/2/2016	0.0328 (J)		0.0395 (J)		0.0447 (J)	
4/19/2016					0.0645 (J)	
4/20/2016	0.0434 (J)		0.0549 (J)			
6/8/2016	0.0391 (J)		0.0593 (J)		0.0592 (J)	
8/30/2016			0.0534 (J)			
8/31/2016	0.0401 (J)				0.0632 (J)	
10/18/2016			0.0597 (J)			
10/19/2016	0.0427 (J)				0.0637 (J)	
1/31/2017	0.034 (J)		0.0479 (J)		0.0536 (J)	
5/2/2017			0.0587 (J)		0.0775 (J)	
5/3/2017	0.0416 (J)					
6/6/2017			0.0428 (J)		0.0535 (J)	
6/7/2017	0.0277 (J)					
9/13/2017	0.044 (J)		0.0647 (J)		0.0937 (J)	
5/1/2018					0.0683 (J)	
5/2/2018	0.0393 (J)		0.0484 (J)			
11/27/2018			0.0493 (J)		0.0715 (J)	
11/28/2018	0.0417 (J)					
5/29/2019	0.0528 (J)		0.0682 (J)		0.116	
7/31/2019						0.0439 (J)
10/1/2019	0.0604 (J)		0.0701 (J)		0.116	0.0824 (J)
3/31/2020	0.0505 (J)		0.0655 (J)			
4/1/2020					0.1	
9/1/2020	0.0642 (J)					0.0907 (J)
9/2/2020		0.112	0.0789 (J)	0.407	0.148	
5/11/2021					0.109	
5/19/2021	0.0604 (J)	0.0976 (J)				
5/25/2021			0.074 (J)	0.43		0.0617 (J)

Time Series

Constituent: Boron (mg/L) Analysis Run 7/14/2021 12:31 PM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H
3/2/2016	1.47					
4/19/2016	1.53					
6/8/2016	1.7					
8/31/2016	1.68					
10/19/2016	1.53					
1/31/2017	1.51					
5/2/2017	1.64					
6/6/2017	1.57					
9/13/2017	2.18					
5/1/2018	1.57					
11/27/2018	1.58					
3/20/2019					0.924	
5/29/2019	1.7					
7/31/2019			0.0782 (J)			0.835
10/1/2019	2.05				1.05	0.931
10/2/2019			0.129			
3/31/2020	1.74					
4/1/2020			0.073 (J)		0.435	
9/1/2020			0.146	0.124	0.855	0.895
9/2/2020	1.9	<0.1015				
5/17/2021			0.0911 (J)			
5/18/2021				0.124		
5/19/2021	1.74	<0.1015			0.866	
5/25/2021						0.252

Time Series

Constituent: Boron (mg/L) Analysis Run 7/14/2021 12:31 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1V	BY-AP-MW-2	BY-AP-MW-20H	BY-AP-MW-20V	BY-AP-MW-22H	BY-AP-MW-23H
3/2/2016		<0.1015				
4/19/2016		<0.1015				
6/8/2016		<0.1015				
8/31/2016		<0.1015				
10/19/2016		<0.1015				
1/31/2017		<0.1015				
5/2/2017		<0.1015				
6/6/2017		<0.1015				
9/12/2017		<0.1015				
5/1/2018		<0.1015				
11/27/2018		<0.1015				
1/8/2019	0.0205 (J)					
5/29/2019		<0.1015				
7/31/2019			0.0707 (J)		0.0643 (J)	0.0531 (J)
10/1/2019		<0.1015	0.101		0.105	0.0856 (J)
10/2/2019	<0.1015					
3/30/2020	0.0347 (J)					
3/31/2020		<0.1015				
4/1/2020			0.046 (J)			<0.1015
8/31/2020		<0.1015				
9/1/2020	0.0368 (J)		0.106	0.134	0.115	0.0943 (J)
5/18/2021	0.0334 (J)	<0.1015				
5/19/2021			0.0909 (J)	0.119		
5/24/2021						0.0785 (J)
5/25/2021					0.0889 (J)	

Time Series

Constituent: Boron (mg/L) Analysis Run 7/14/2021 12:31 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-25VM	BY-AP-MW-3	BY-AP-MW-4
3/1/2016						<0.1015
3/2/2016					<0.1015	
4/19/2016					<0.1015	<0.1015
6/7/2016					<0.1015	<0.1015
8/30/2016						<0.1015
8/31/2016					<0.1015	
10/19/2016					<0.1015	<0.1015
1/31/2017					<0.1015	<0.1015
5/2/2017					<0.1015	<0.1015
6/6/2017					<0.1015	<0.1015
9/12/2017					<0.1015	<0.1015
5/1/2018					<0.1015	<0.1015
11/27/2018					<0.1015	<0.1015
1/8/2019		0.213				
5/29/2019					<0.1015	<0.1015
10/1/2019					<0.1015	<0.1015
10/2/2019		0.344				
3/31/2020		0.325			<0.1015	<0.1015
9/1/2020	0.307				<0.1015	<0.1015
9/2/2020		0.382	<0.1015	<0.1015		
5/17/2021	0.32					
5/18/2021					<0.1015	<0.1015
5/24/2021			<0.1015			
5/25/2021		0.37				

Time Series

Constituent: Boron (mg/L) Analysis Run 7/14/2021 12:31 PM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-5	BY-AP-MW-5V	BY-AP-MW-6	BY-AP-MW-7	BY-AP-MW-7V	BY-AP-MW-8
3/1/2016	0.0462 (J)		<0.1015	0.0546 (J)		1.72
4/19/2016			<0.1015			
4/20/2016	0.0719 (J)			0.0472 (J)		1.7
6/7/2016	0.0591 (J)		<0.1015	0.0417 (J)		1.57
8/30/2016	0.0675 (J)		<0.1015			1.67
8/31/2016				0.036 (J)		
10/18/2016	0.0699 (J)					1.4
10/19/2016			<0.1015	0.0386 (J)		
1/31/2017	0.0518 (J)		<0.1015	0.0343 (J)		1.46
5/3/2017	0.0737 (J)		<0.1015	0.037 (J)		1.45
6/7/2017	0.0518 (J)		<0.1015	0.0227 (J)		1.41
9/14/2017	0.0825 (J)		<0.1015	0.0471 (J)		1.16
5/2/2018	0.0603 (J)		<0.1015	0.0313 (J)		1.12
11/27/2018	0.0613 (J)					1.31
11/28/2018			<0.1015	0.0311 (J)		
1/8/2019		0.029 (J)				
1/9/2019					0.0615 (J)	
5/29/2019	0.0946 (J)		<0.1015	0.042 (J)		1.44
9/30/2019				0.0418 (J)		1.38
10/1/2019	0.103		<0.1015		0.0546 (J)	
10/2/2019		0.0336 (J)				
3/30/2020				0.0369 (J)	0.0555 (J)	1.12
3/31/2020	0.0782 (J)	0.0339 (J)	<0.1015			
9/1/2020	0.115	0.0414 (J)				
9/2/2020			<0.1015	0.042 (J)	0.0565 (J)	1.26
5/11/2021						0.971
5/17/2021			<0.1015			
5/18/2021				0.037 (J)	0.0599 (J)	

Time Series

Constituent: Boron (mg/L) Analysis Run 7/14/2021 12:31 PM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-8V	BY-AP-MW-9	BY-GSA-MW-1 (bg)	BY-GSA-MW-2 (bg)	BY-GSA-MW-3 (bg)	BY-GSA-MW-4 (bg)
2/23/2016			0.0212 (J)	0.0252 (J)	<0.1015	0.0257 (J)
3/1/2016		1.79				
4/19/2016			<0.1015	<0.1015	<0.1015	<0.1015
4/20/2016		2.01				
6/6/2016			<0.1015			<0.1015
6/7/2016				0.0202 (J)	<0.1015	
6/8/2016		2.23				
8/30/2016			<0.1015	<0.1015	<0.1015	<0.1015
8/31/2016		2.14				
10/18/2016			<0.1015	<0.1015	<0.1015	0.022 (J)
10/19/2016		2.13				
1/31/2017			<0.1015	<0.1015	<0.1015	<0.1015
2/1/2017		2.17				
5/2/2017			<0.1015	<0.1015	<0.1015	<0.1015
5/3/2017		2.28				
6/6/2017			<0.1015	<0.1015	<0.1015	<0.1015
6/7/2017		2.25				
9/12/2017						<0.1015
9/13/2017			<0.1015	<0.1015	<0.1015	
9/14/2017		2.41				
5/1/2018				<0.1015	<0.1015	<0.1015
5/2/2018		2.34	0.0362 (J)			
11/26/2018						<0.1015
11/27/2018			0.11		<0.1015	
11/28/2018		2.23				
1/9/2019	0.164					
5/28/2019						<0.1015
5/29/2019			0.188	<0.1015	<0.1015	
5/30/2019		2.45				
9/30/2019		2.34				
10/1/2019	0.241					
10/2/2019			0.097 (J)	<0.1015	<0.1015	<0.1015
3/30/2020	0.247					
3/31/2020		2.27	0.157	<0.1015	<0.1015	<0.1015
9/2/2020	0.26	2.05				
9/8/2020						<0.1015
9/9/2020			0.0999 (J)	<0.1015	<0.1015	
5/11/2021				<0.1015	<0.1015	<0.1015
5/12/2021			0.0841 (J)			
5/18/2021	0.247	2.08				

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V
3/1/2016		<0.000203		<0.000203		
3/2/2016	<0.000203				<0.000203	
4/19/2016	<0.000203					
4/20/2016		<0.000203		<0.000203	<0.000203	
6/8/2016	<0.000203	<0.000203		<0.000203	<0.000203	
8/31/2016	<0.000203	<0.000203		<0.000203	<0.000203	
10/19/2016	<0.000203	<0.000203		<0.000203	<0.000203	
1/31/2017	<0.000203					
2/1/2017		<0.000203		<0.000203	<0.000203	
5/2/2017	<0.000203					
5/3/2017		<0.000203		<0.000203	<0.000203	
6/6/2017	<0.000203					
6/7/2017		<0.000203		<0.000203	<0.000203	
1/23/2018		<0.000203		<0.000203	<0.000203	
1/24/2018	<0.000203					
5/1/2018	<0.000203					
5/2/2018		<0.000203		<0.000203	<0.000203	
11/28/2018	<0.000203	<0.000203		<0.000203	<0.000203	
1/8/2019			<0.000203			<0.000203
5/29/2019	<0.000203			<0.000203	<0.000203	
5/30/2019		<0.000203				
9/30/2019		<0.000203		<0.000203		
10/1/2019	<0.000203		<0.000203		<0.000203	
10/2/2019						<0.000203
3/30/2020	<0.000203					
3/31/2020		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
9/1/2020	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
5/11/2021		<0.000203				
5/18/2021	<0.000203		<0.000203		<0.000203	<0.000203
5/19/2021				<0.000203		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14	BY-AP-MW-14V	BY-AP-MW-15	BY-AP-MW-15V
3/2/2016	<0.000203		<0.000203		<0.000203	
4/19/2016					<0.000203	
4/20/2016	<0.000203		<0.000203			
6/8/2016	<0.000203		<0.000203		<0.000203	
8/30/2016			<0.000203			
8/31/2016	<0.000203				<0.000203	
10/18/2016			<0.000203			
10/19/2016	<0.000203				<0.000203	
1/31/2017	<0.000203		<0.000203		<0.000203	
5/2/2017			<0.000203		<0.000203	
5/3/2017	<0.000203					
6/6/2017			<0.000203		<0.000203	
6/7/2017	0.00077 (J)					
1/22/2018	<0.000203				<0.000203	
1/23/2018			<0.000203			
5/1/2018					<0.000203	
5/2/2018	<0.000203		<0.000203			
11/27/2018			<0.000203		<0.000203	
11/28/2018	<0.000203					
5/29/2019	<0.000203		<0.000203		<0.000203	
7/31/2019						<0.000203
10/1/2019	<0.000203		<0.000203		<0.000203	<0.000203
3/31/2020	<0.000203		<0.000203			
4/1/2020					<0.000203	
9/1/2020	<0.000203					<0.000203
9/2/2020		<0.000203	<0.000203	<0.000203	<0.000203	
5/11/2021					<0.000203	
5/19/2021	<0.000203	<0.000203				
5/25/2021			<0.000203	<0.000203		<0.000203

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H
3/2/2016	<0.000203					
4/19/2016	<0.000203					
6/8/2016	<0.000203					
8/31/2016	<0.000203					
10/19/2016	<0.000203					
1/31/2017	<0.000203					
5/2/2017	<0.000203					
6/6/2017	<0.000203					
1/23/2018	<0.000203					
5/1/2018	<0.000203					
11/27/2018	<0.000203					
3/20/2019				<0.000203		
5/29/2019	<0.000203					
7/31/2019			<0.000203			<0.000203
10/1/2019	<0.000203			<0.000203		<0.000203
10/2/2019			<0.000203			
3/31/2020	<0.000203					
4/1/2020			<0.000203	<0.000203		
9/1/2020			<0.000203	<0.000203	<0.000203	<0.000203
9/2/2020	<0.000203	<0.000203				
5/17/2021			<0.000203			
5/18/2021				<0.000203		
5/19/2021	<0.000203	<0.000203			<0.000203	
5/25/2021						<0.000203

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1V	BY-AP-MW-2	BY-AP-MW-20H	BY-AP-MW-20V	BY-AP-MW-22H	BY-AP-MW-23H
3/2/2016		<0.000203				
4/19/2016		<0.000203				
6/8/2016		<0.000203				
8/31/2016		<0.000203				
10/19/2016		<0.000203				
1/31/2017		<0.000203				
5/2/2017		<0.000203				
6/6/2017		<0.000203				
1/24/2018		<0.000203				
5/1/2018		<0.000203				
11/27/2018		<0.000203				
1/8/2019	<0.000203					
5/29/2019		<0.000203				
7/31/2019			<0.000203		<0.000203	<0.000203
10/1/2019		<0.000203	<0.000203		<0.000203	<0.000203
10/2/2019	<0.000203					
3/30/2020	<0.000203					
3/31/2020		<0.000203				
4/1/2020			<0.000203			<0.000203
8/31/2020		<0.000203				
9/1/2020	<0.000203		<0.000203	<0.000203	<0.000203	<0.000203
5/18/2021	<0.000203	<0.000203				
5/19/2021			<0.000203	<0.000203		
5/24/2021						<0.000203
5/25/2021				<0.000203		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-25VM	BY-AP-MW-3	BY-AP-MW-4
3/1/2016						<0.000203
3/2/2016					<0.000203	
4/19/2016					<0.000203	<0.000203
6/7/2016					<0.000203	<0.000203
8/30/2016						<0.000203
8/31/2016					<0.000203	
10/19/2016					<0.000203	<0.000203
1/31/2017					<0.000203	<0.000203
5/2/2017					<0.000203	<0.000203
6/6/2017					<0.000203	<0.000203
1/24/2018					<0.000203	<0.000203
5/1/2018					<0.000203	<0.000203
11/27/2018					<0.000203	<0.000203
1/8/2019		<0.000203				
5/29/2019					<0.000203	<0.000203
10/1/2019					<0.000203	<0.000203
10/2/2019		<0.000203				
3/31/2020		<0.000203			<0.000203	<0.000203
9/1/2020	<0.000203				<0.000203	<0.000203
9/2/2020		<0.000203	<0.000203	<0.000203		
5/17/2021	<0.000203					
5/18/2021					<0.000203	<0.000203
5/24/2021			<0.000203			
5/25/2021		<0.000203				

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-5	BY-AP-MW-5V	BY-AP-MW-6	BY-AP-MW-7	BY-AP-MW-7V	BY-AP-MW-8
3/1/2016	<0.000203		<0.000203	<0.000203		<0.000203
4/19/2016			<0.000203			
4/20/2016	<0.000203			<0.000203		<0.000203
6/7/2016	<0.000203		<0.000203	<0.000203		<0.000203
8/30/2016	<0.000203		<0.000203			<0.000203
8/31/2016				<0.000203		
10/18/2016	<0.000203					<0.000203
10/19/2016			<0.000203	<0.000203		
1/31/2017	<0.000203		<0.000203	<0.000203		<0.000203
5/3/2017	<0.000203		<0.000203	<0.000203		<0.000203
6/7/2017	<0.000203		<0.000203	<0.000203		<0.000203
1/24/2018	<0.000203		<0.000203	<0.000203		<0.000203
5/2/2018	<0.000203		<0.000203	<0.000203		<0.000203
11/27/2018	<0.000203					<0.000203
11/28/2018			<0.000203	<0.000203		
1/8/2019		<0.000203				
1/9/2019					<0.000203	
5/29/2019	<0.000203		<0.000203	<0.000203		<0.000203
9/30/2019				<0.000203		<0.000203
10/1/2019	<0.000203		<0.000203		<0.000203	
10/2/2019		<0.000203				
3/30/2020				<0.000203	<0.000203	<0.000203
3/31/2020	<0.000203	<0.000203	<0.000203			
9/1/2020	<0.000203	<0.000203				
9/2/2020			<0.000203	<0.000203	<0.000203	<0.000203
5/11/2021						<0.000203
5/17/2021			<0.000203			
5/18/2021				<0.000203	<0.000203	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-8V	BY-AP-MW-9	BY-GSA-MW-1 (bg)	BY-GSA-MW-2 (bg)	BY-GSA-MW-3 (bg)	BY-GSA-MW-4 (bg)
2/23/2016			<0.000203	<0.000203	<0.000203	<0.000203
3/1/2016		<0.000203				
4/19/2016			<0.000203	<0.000203	<0.000203	<0.000203
4/20/2016		<0.000203				
6/6/2016			<0.000203			<0.000203
6/7/2016				<0.000203	<0.000203	
6/8/2016		<0.000203				
8/30/2016			<0.000203	<0.000203	<0.000203	<0.000203
8/31/2016		<0.000203				
10/18/2016			<0.000203	<0.000203	<0.000203	<0.000203
10/19/2016		<0.000203				
1/31/2017			<0.000203	<0.000203	<0.000203	<0.000203
2/1/2017		<0.000203				
5/2/2017			<0.000203	<0.000203	<0.000203	<0.000203
5/3/2017		<0.000203				
6/6/2017			<0.000203	<0.000203	<0.000203	<0.000203
6/7/2017		<0.000203				
1/23/2018		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
5/1/2018				<0.000203	<0.000203	<0.000203
5/2/2018		<0.000203	<0.000203			
11/26/2018						<0.000203
11/27/2018			<0.000203	<0.000203	<0.000203	
11/28/2018		<0.000203				
1/9/2019	<0.000203					
5/28/2019						<0.000203
5/29/2019			<0.000203	<0.000203	<0.000203	
5/30/2019		<0.000203				
9/30/2019		<0.000203				
10/1/2019	<0.000203					
10/2/2019			<0.000203	<0.000203	<0.000203	<0.000203
3/30/2020	<0.000203					
3/31/2020		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
9/2/2020	<0.000203	<0.000203				
9/8/2020						<0.000203
9/9/2020			<0.000203	<0.000203	<0.000203	
5/11/2021				<0.000203	<0.000203	<0.000203
5/12/2021			<0.000203			
5/18/2021	<0.000203	<0.000203				

Time Series

Constituent: Calcium (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V
3/1/2016		50.6		35.3		
3/2/2016	46.5				21	
4/19/2016	49					
4/20/2016		49.1		28.9	20.1	
6/8/2016	33.5	48.7		27.6	20.2	
8/31/2016	34.2	57.9		25.4	19.9	
10/19/2016	35.1	52.2		25.7	20.4	
1/31/2017	38.5					
2/1/2017		47.6		25.6	20.9	
5/2/2017	35.1					
5/3/2017		51.3		24	20.9	
6/6/2017	32.4					
6/7/2017		51.4		25.2	21.2	
9/13/2017	40.5			25.5	22.1	
9/14/2017		54.9				
5/1/2018	39.7					
5/2/2018		53.3		25.2	22.2	
8/28/2018	37.2	56.4				
8/29/2018				25.6	22.3	
11/28/2018	35.8	54.2		24.6	22.1	
1/8/2019			57.2			33.8
5/29/2019	33.4			23.9	21.4	
5/30/2019		60.5				
9/30/2019		63.1		24.6		
10/1/2019	36.7		61.2		23.1	
10/2/2019						22.2
3/30/2020	33.7					
3/31/2020		63.6	66.6	25.1	22.4	21.3
9/1/2020	40.5	57.2	57.3	23.9	22.2	21
5/11/2021		62.7				
5/18/2021	39.5		64		23.1	22.1
5/19/2021				41.5		

Time Series

Constituent: Calcium (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14	BY-AP-MW-14V	BY-AP-MW-15	BY-AP-MW-15V
3/2/2016	16.7		9.53		6.61	
4/19/2016					5.97	
4/20/2016	13.1		9.55			
6/8/2016	11.7		13.1		6.36	
8/30/2016			12.1			
8/31/2016	11.3				6.28	
10/18/2016			11.4			
10/19/2016	11.8				6.57	
1/31/2017	12.5		10.8		6.77	
5/2/2017			11.9		6.94	
5/3/2017	12					
6/6/2017			12.2		6.88	
6/7/2017	12.8					
9/13/2017	13.3		13.9		7.43	
5/1/2018					7.42	
5/2/2018	13.8		10.6			
8/29/2018	13.3		11.7		7.37	
11/27/2018			10.8		7.58	
11/28/2018	15.2					
5/29/2019	12.8		11.2		7.22	
7/31/2019						9.32
10/1/2019	13.4		11.4		6.9	8.41
3/31/2020	13.2		9.04			
4/1/2020					7.32	
9/1/2020	12.3					6.9
9/2/2020		12.3	10.8	4.7	7.04	
5/11/2021					6.98	
5/19/2021	12.9	12.7				
5/25/2021			11.2	4.66		8.47

Time Series

Constituent: Calcium (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H
3/2/2016	14.6					
4/19/2016	13.3					
6/8/2016	13.2					
8/31/2016	11.8					
10/19/2016	12.9					
1/31/2017	13.5					
5/2/2017	13.5					
6/6/2017	13.6					
9/13/2017	11.8					
5/1/2018	14					
8/29/2018	12.1					
11/27/2018	13.3					
3/20/2019				28.4		
5/29/2019	13.4					
7/31/2019			19.1			31.4
10/1/2019	11.7			27.2		31.1
10/2/2019			13.2			
3/31/2020	14.2					
4/1/2020			27		23.1	
9/1/2020			10.8	20.5	25.6	31.6
9/2/2020	13.1	2.02				
5/17/2021			12.8			
5/18/2021				15		
5/19/2021	14.2	2.26			27.1	
5/25/2021						23.9

Time Series

Constituent: Calcium (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1V	BY-AP-MW-2	BY-AP-MW-20H	BY-AP-MW-20V	BY-AP-MW-22H	BY-AP-MW-23H
3/2/2016		3.86				
4/19/2016		3.22				
6/8/2016		3.17				
8/31/2016		3.07				
10/19/2016		2.91				
1/31/2017		2.94				
5/2/2017		2.82				
6/6/2017		2.79				
9/12/2017		2.88				
5/1/2018		2.82				
8/28/2018		2.85				
11/27/2018		2.8				
1/8/2019	15.7					
5/29/2019		2.82				
7/31/2019			30.3		15	25.8
10/1/2019		2.94	29.4		15.5	27.2
10/2/2019	3.16					
3/30/2020	3.23					
3/31/2020		2.95				
4/1/2020			26			15.8
8/31/2020		3				
9/1/2020	3.43		28.8	14.7	14.8	35.8
5/18/2021	3.79	3.17				
5/19/2021			30.9	15.3		
5/24/2021						27.1
5/25/2021					15.2	

Time Series

Constituent: Calcium (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-25VM	BY-AP-MW-3	BY-AP-MW-4
3/1/2016						1.07
3/2/2016					1.11	
4/19/2016					1.01	0.969
6/7/2016					1.06	1.08
8/30/2016						0.952
8/31/2016					0.978	
10/19/2016					0.906	1.17
1/31/2017					1.04	0.946
5/2/2017					0.969	0.826
6/6/2017					0.902	0.834
9/12/2017					0.988	0.884
5/1/2018					1.07	0.921
8/28/2018					1.02	0.8
11/27/2018					0.999	1.01
1/8/2019		38				
5/29/2019					1.09	0.627
10/1/2019					1.08	0.645
10/2/2019		18.4				
3/31/2020		18.1			1.1	0.898
9/1/2020	1.27				1.08	0.566
9/2/2020		17.6	0.875	0.547		
5/17/2021	1.33					
5/18/2021					1.12	0.974
5/24/2021			0.905			
5/25/2021		18.6				

Time Series

Constituent: Calcium (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-5	BY-AP-MW-5V	BY-AP-MW-6	BY-AP-MW-7	BY-AP-MW-7V	BY-AP-MW-8
3/1/2016	15		1.87	7.65		36.1
4/19/2016			1.69			
4/20/2016	14.3			7.54		34.5
6/7/2016	14.8		1.75	7.71		34.7
8/30/2016	13.7		1.77			34.1
8/31/2016				8.1		
10/18/2016	13.3					33.2
10/19/2016			1.8	8.59		
1/31/2017	13.7		1.98	8.78		32.3
5/3/2017	14.3		1.97	8.85		34.1
6/7/2017	14.7		1.98	8.99		34.7
9/14/2017	15.1		2.14	9.64		34.4
5/2/2018	14.5		2.13	9.14		32.3
8/29/2018	14.3		1.92			32.6
11/27/2018	13.7					32.5
11/28/2018			1.91	9.66		
1/8/2019		3.7				
1/9/2019					37	
5/29/2019	14.5		1.72	8.88		31.9
9/30/2019				9.8		33
10/1/2019	13.8		1.92		18.7	
10/2/2019		2.43				
3/30/2020				10.1	20	32.2
3/31/2020	14.4	1.88	1.68			
9/1/2020	13.6	2.13				
9/2/2020			1.8	10.4	13.9	31.5
5/11/2021						33
5/17/2021			1.93			
5/18/2021				10.2	14.1	

Time Series

Constituent: Calcium (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-8V	BY-AP-MW-9	BY-GSA-MW-1 (bg)	BY-GSA-MW-2 (bg)	BY-GSA-MW-3 (bg)	BY-GSA-MW-4 (bg)
2/23/2016			1.28	1.11	1.77	1.42
3/1/2016		40.3				
4/19/2016			1.19	1.09	1.68	1.31
4/20/2016		38.2				
6/6/2016			1.19			1.35
6/7/2016				1.16	1.68	
6/8/2016		39.2				
8/30/2016			1.11	1.08	1.62	1.31
8/31/2016		38.2				
10/18/2016			1.04	1.03	1.53	1.22
10/19/2016		38.7				
1/31/2017			1.19	1.23	1.65	1.36
2/1/2017		39.2				
5/2/2017			1.05	1.28	1.58	1.24
5/3/2017		39.1				
6/6/2017			0.978	1.25	1.55	1.28
6/7/2017		40.3				
9/12/2017						1.47
9/13/2017			1.14	1.6	1.71	
9/14/2017		40.7				
5/1/2018				1.58	1.76	1.47
5/2/2018		40	1.64			
8/28/2018		40				
11/26/2018						1.52
11/27/2018			2.01	1.49	1.69	
11/28/2018		39.7				
1/9/2019	27.2					
5/28/2019						1.6
5/29/2019			1.85	1.59	1.74	
5/30/2019		38.5				
9/30/2019		39.9				
10/1/2019	24.2					
10/2/2019			1.55	1.7	1.86	1.7
3/30/2020	24.5					
3/31/2020		40.1	1.96	1.43	1.92	1.78
9/2/2020	23.3	38				
9/8/2020						1.94
9/9/2020			1.43	1.5	1.97	
5/11/2021				1.39	2.06	1.93
5/12/2021			1.34			
5/18/2021	26.4	40.5				

Time Series

Constituent: Chloride (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V
3/1/2016		19.6		21.7		
3/2/2016	2.18 (o)				22.2	
4/19/2016	9.01 (o)					
4/20/2016		18.8		20.7	21.7	
6/8/2016	21	18.6		20.4	22	
8/31/2016	21	18.5		20.3	22.3	
10/19/2016	21.4	18.7		20.3	20.8	
3/21/2017	25					
3/22/2017		21		27	23	
5/2/2017	26					
5/3/2017		22		27	25	
6/6/2017	27					
6/7/2017		22		24	23	
9/13/2017	24			26	23	
9/14/2017		22				
5/1/2018	25					
5/2/2018		23		23	21	
8/28/2018	25	25				
8/29/2018				25	23	
11/28/2018	26	25		25	23	
1/8/2019			21.3			23.1
5/29/2019	27.6			27.8	24.1	
5/30/2019		25.9				
9/30/2019		25.7		25		
10/1/2019	24.6		20		26.1	
10/2/2019						28
3/30/2020	24.9					
3/31/2020		26.1	20.7	24.1	23.9	25
9/1/2020	25.7	25	22.9	23.2	23.4	26.4
5/11/2021		27.3				
5/18/2021	25.1		21		25.4	25.5
5/19/2021				23.1		

Time Series

Constituent: Chloride (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14	BY-AP-MW-14V	BY-AP-MW-15	BY-AP-MW-15V
3/2/2016	47.3		36.6		20.9	
4/19/2016					19.8	
4/20/2016	40.5		35.5			
6/8/2016	37.2		43.8		24	
8/30/2016			41.6			
8/31/2016	38.2				28	
10/18/2016			39.5			
10/19/2016	39.4				21.3	
3/21/2017					34	
3/22/2017	49		46			
5/2/2017			42		33	
5/3/2017	48					
6/6/2017			44		35	
6/7/2017	49					
9/13/2017	42		43		36	
5/1/2018					42	
5/2/2018	47		39			
8/29/2018	43		44		38	
11/27/2018			43		43	
11/28/2018	43					
5/29/2019	44		50.1		47.2	
7/31/2019						157
10/1/2019	39.6		44.8		56.3	195
3/31/2020	44.9		44.7			
4/1/2020					54.7	
9/1/2020	39.1					170
9/2/2020		51.7	47.2	178	47	
5/11/2021					80	
5/19/2021	46.8	64.4				
5/25/2021			52.1	210		180

Time Series

Constituent: Chloride (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H
3/2/2016	16.6					
4/19/2016	15.7					
6/8/2016	15.1					
8/31/2016	15.9					
10/19/2016	15.3					
3/21/2017	19					
5/2/2017	19					
6/6/2017	19					
9/13/2017	21					
5/1/2018	18					
8/29/2018	20					
11/27/2018	20					
3/20/2019				17.6		
5/29/2019	20					
7/31/2019			18			16.4
10/1/2019	20.3				20.1	16.8
10/2/2019			17.7			
3/31/2020	20.8					
4/1/2020			17.2		12.2	
9/1/2020			18.2	273	19.8	17.6
9/2/2020	20.8	75.6				
5/17/2021			17.1			
5/18/2021				225		
5/19/2021	21.4	81.2			19.3	
5/25/2021						10.7

Time Series

Constituent: Chloride (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1V	BY-AP-MW-2	BY-AP-MW-20H	BY-AP-MW-20V	BY-AP-MW-22H	BY-AP-MW-23H
3/2/2016		6.08				
4/19/2016		6.2				
6/8/2016		6.2				
8/31/2016		6.51				
10/19/2016		6.85				
3/21/2017		7.2				
5/2/2017		8.3				
6/6/2017		8.5				
9/12/2017		8.6				
5/1/2018		7.6				
8/28/2018		8.5				
11/27/2018		8.8				
1/8/2019	42					
5/29/2019		8.31				
7/31/2019			33.4		60.3	8.03
10/1/2019		8.19	44.7		70	6.7
10/2/2019	60.7					
3/30/2020	69.1					
3/31/2020		8.48				
4/1/2020			23.1			4.46
8/31/2020		8.3				
9/1/2020	69		34.6	27.1	59.9	6.96
5/18/2021	79.5	7.89				
5/19/2021			36.2	32.4		
5/24/2021						6.33
5/25/2021					65.4	

Time Series

Constituent: Chloride (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-25VM	BY-AP-MW-3	BY-AP-MW-4
3/1/2016						7.74
3/2/2016					8.04	
4/19/2016					7.6	7.66
6/7/2016					7.7	11.3
8/30/2016						10.8
8/31/2016					7.7	
10/19/2016					7.73	11.1
3/21/2017					7.2	11
5/2/2017					8.6	12
6/6/2017					8.3	12
9/12/2017					8.5	11
5/1/2018					7.6	9.2
8/28/2018					8.2	10
11/27/2018					8.4	10
1/8/2019		44.6				
5/29/2019					9.01	8.53
10/1/2019					8.05	7.35
10/2/2019		53				
3/31/2020		47.5			9.07	9.54
9/1/2020	117				8.97	7.82
9/2/2020		43.7	4.62	3.85		
5/17/2021	134					
5/18/2021					9.52	9.53
5/24/2021			4.72			
5/25/2021		46				

Time Series

Constituent: Chloride (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-5	BY-AP-MW-5V	BY-AP-MW-6	BY-AP-MW-7	BY-AP-MW-7V	BY-AP-MW-8
3/1/2016	19.7		5.77	11.2		24.5
4/19/2016			5.57			
4/20/2016	18.9			10.8		22.5
6/7/2016	18.5		5.52	10.8		21.6
8/30/2016	17.9		5.5			21.6
8/31/2016				10.8		
10/18/2016	18.2					20.2
10/19/2016			5.55	10.8		
3/22/2017	22		6	13		24
5/3/2017	22		6.4	14		25
6/7/2017	21		5.9	14		24
9/14/2017	21		6.5	13		24
5/2/2018	20		5.5	13		23
8/29/2018	21		5.4			25
11/27/2018	21					27
11/28/2018			6.2	13		
1/8/2019		20.9				
1/9/2019					16.9	
5/29/2019	19.7		6.15	13.3		27.4
9/30/2019				13.1		25.5
10/1/2019	19.8		5.99		13.2	
10/2/2019		25.8				
3/30/2020				13.3	15.5	22.6
3/31/2020	19.8	25.8	5.94			
9/1/2020	19.1	30.6				
9/2/2020			5.94	12.9	14.2	22.2
5/11/2021						21.9
5/17/2021			6.26			
5/18/2021				14.2	19	

Time Series

Constituent: Chloride (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-8V	BY-AP-MW-9	BY-GSA-MW-1 (bg)	BY-GSA-MW-2 (bg)	BY-GSA-MW-3 (bg)	BY-GSA-MW-4 (bg)
2/23/2016			3.59	3.99	3.68	3.5
3/1/2016		20.4				
4/19/2016			2.89	4.08	3.72	3.63
4/20/2016		22.7				
6/6/2016			3.12			3.6
6/7/2016				4.28	3.66	
6/8/2016		25.3				
8/30/2016			3.91	4.26	3.7	3.54
8/31/2016		24.4				
10/18/2016			3.9	4.26	3.77	3.68
10/19/2016		23				
3/20/2017			3.5	4.1	3.7	4.6
3/22/2017		26				
5/2/2017			3.5 (D)	5 (D)	4.6 (D)	3.9 (D)
5/3/2017		26				
6/6/2017			3.1 (D)	3.9 (D)	3.4 (D)	3.4 (D)
6/7/2017		27				
9/12/2017						4.3
9/13/2017			4	4.3	3.9	
9/14/2017		24				
5/1/2018				3.7	4.1	3.8
5/2/2018		22	9.9			
8/28/2018		21				
11/26/2018						3.6
11/27/2018			4.7	3.2	3.5	
11/28/2018		23				
1/9/2019	21.9					
5/28/2019						3.6
5/29/2019			5.48	2.93	3.58	
5/30/2019		27.7				
9/30/2019		21.7				
10/1/2019	22.6					
10/2/2019			3.65	2.75	3.64	3.5
3/30/2020	22.7					
3/31/2020		20.6	3.17	2.72	3.47	3.34
9/2/2020	22.6	18.5				
9/8/2020						3.29
9/9/2020			2.92	2.32	3.47	
5/11/2021				2.16	3.42	3.33
5/12/2021			2.18			
5/18/2021	22.7	18.3				

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V
3/1/2016		<0.01		0.00213 (J)		
3/2/2016	0.00591 (J)				0.0042 (J)	
4/19/2016	0.0077 (J)					
4/20/2016		<0.01		0.00214 (J)	0.0034 (J)	
6/8/2016	0.00264 (J)	<0.01		0.00205 (J)	0.00308 (J)	
8/31/2016	0.00246 (J)	<0.01		0.00221 (J)	0.0032 (J)	
10/19/2016	0.00248 (J)	<0.01		0.00213 (J)	0.0035 (J)	
1/31/2017	0.00556 (J)					
2/1/2017		<0.01		0.00228 (J)	0.00371 (J)	
5/2/2017	0.00269 (J)					
5/3/2017		<0.01		0.00229 (J)	0.00369 (J)	
6/6/2017	0.00295 (J)					
6/7/2017		<0.01		0.00233 (J)	0.00372 (J)	
1/23/2018		<0.01		0.00248 (J)	0.00605 (J)	
1/24/2018	0.00278 (J)					
5/1/2018	0.00435 (J)					
5/2/2018		<0.01		0.00273 (J)	0.00351 (J)	
11/28/2018	0.0036 (J)	<0.01		0.0023 (J)	0.00353 (J)	
1/8/2019			<0.01			0.0021 (J)
5/29/2019	0.00223 (J)			0.00211 (J)	0.00333 (J)	
5/30/2019		<0.01				
9/30/2019		<0.01		0.00228 (J)		
10/1/2019	0.00236 (J)		<0.01		0.00325 (J)	
10/2/2019						<0.01
3/30/2020	0.00415 (J)					
3/31/2020		<0.01	<0.01	0.00358 (J)	0.0056 (J)	<0.01
9/1/2020	0.00242 (J)	<0.01	<0.01	0.00259 (J)	0.00332 (J)	<0.01
5/11/2021		0.000685 (J)				
5/18/2021	0.00294		0.000684 (J)		0.00377	0.00112
5/19/2021				0.00301		

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14	BY-AP-MW-14V	BY-AP-MW-15	BY-AP-MW-15V
3/2/2016	0.00656 (J)		0.00552 (J)		<0.01	
4/19/2016					<0.01	
4/20/2016	0.00661 (J)		0.00572 (J)			
6/8/2016	0.0067 (J)		0.00492 (J)		<0.01	
8/30/2016			0.00534 (J)			
8/31/2016	0.00693 (J)				<0.01	
10/18/2016			0.00556 (J)			
10/19/2016	0.00732 (J)				<0.01	
1/31/2017	0.00699 (J)		0.00514 (J)		<0.01	
5/2/2017			0.00524 (J)		<0.01	
5/3/2017	0.00712 (J)					
6/6/2017			0.00541 (J)		<0.01	
6/7/2017	0.00752 (J)					
1/22/2018	0.00729 (J)				<0.01	
1/23/2018			0.00573 (J)			
5/1/2018					<0.01	
5/2/2018	0.00642 (J)		0.00534 (J)			
11/27/2018			0.00523 (J)		<0.01	
11/28/2018	0.0068 (J)					
5/29/2019	0.00727 (J)		0.00455 (J)		<0.01	
7/31/2019						<0.01
10/1/2019	0.00764 (J)		0.00508 (J)		<0.01	<0.01
3/31/2020	0.00955 (J)		0.00463 (J)			
4/1/2020					<0.01	
9/1/2020	0.00888 (J)					<0.01
9/2/2020		0.00525 (J)	0.00482 (J)	<0.01	<0.01	
5/11/2021					0.000581 (J)	
5/19/2021	0.00692	0.00416				
5/25/2021			0.00365	0.00113		0.000258 (J)

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H
3/2/2016	<0.01					
4/19/2016	<0.01					
6/8/2016	<0.01					
8/31/2016	0.00215 (J)					
10/19/2016	<0.01					
1/31/2017	<0.01					
5/2/2017	<0.01					
6/6/2017	<0.01					
1/23/2018	0.00253 (J)					
5/1/2018	<0.01					
11/27/2018	<0.01					
3/20/2019					0.00236 (J)	
5/29/2019	<0.01					
7/31/2019			<0.01			<0.01
10/1/2019	<0.01				<0.01	<0.01
10/2/2019			<0.01			
3/31/2020	<0.01					
4/1/2020			<0.01		<0.01	
9/1/2020			<0.01	<0.01	<0.01	<0.01
9/2/2020	<0.01	<0.01				
5/17/2021			0.000627 (J)			
5/18/2021				0.000973 (J)		
5/19/2021	0.00162	0.000385 (J)			0.00132	
5/25/2021						0.000391 (J)

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1V	BY-AP-MW-2	BY-AP-MW-20H	BY-AP-MW-20V	BY-AP-MW-22H	BY-AP-MW-23H
3/2/2016		<0.01				
4/19/2016		<0.01				
6/8/2016		<0.01				
8/31/2016		<0.01				
10/19/2016		<0.01				
1/31/2017		<0.01				
5/2/2017		<0.01				
6/6/2017		<0.01				
1/24/2018		<0.01				
5/1/2018		<0.01				
11/27/2018		<0.01				
1/8/2019	<0.01					
5/29/2019		<0.01				
7/31/2019			0.00209 (J)		<0.01	<0.01
10/1/2019		<0.01	0.0025 (J)		<0.01	<0.01
10/2/2019	<0.01					
3/30/2020	<0.01					
3/31/2020		<0.01				
4/1/2020			<0.01			<0.01
8/31/2020		<0.01				
9/1/2020	<0.01		0.00283 (J)	<0.01	<0.01	<0.01
5/18/2021	0.000447 (J)	0.000394 (J)				
5/19/2021			0.00284	0.000669 (J)		
5/24/2021						0.000814 (J)
5/25/2021					0.000667 (J)	

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-25VM	BY-AP-MW-3	BY-AP-MW-4
3/1/2016						<0.01
3/2/2016					<0.01	
4/19/2016					<0.01	<0.01
6/7/2016					<0.01	<0.01
8/30/2016						<0.01
8/31/2016					<0.01	
10/19/2016					<0.01	<0.01
1/31/2017					<0.01	<0.01
5/2/2017					<0.01	<0.01
6/6/2017					<0.01	<0.01
1/24/2018					<0.01	<0.01
5/1/2018					<0.01	<0.01
11/27/2018					<0.01	<0.01
1/8/2019		<0.01				
5/29/2019					<0.01	<0.01
10/1/2019					<0.01	<0.01
10/2/2019		<0.01				
3/31/2020		<0.01			<0.01	<0.01
9/1/2020	0.00284 (J)				<0.01	<0.01
9/2/2020		<0.01	<0.01	<0.01		
5/17/2021	0.00163					
5/18/2021					0.000919 (J)	0.000544 (J)
5/24/2021			0.00117			
5/25/2021		0.000878 (J)				

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-5	BY-AP-MW-5V	BY-AP-MW-6	BY-AP-MW-7	BY-AP-MW-7V	BY-AP-MW-8
3/1/2016	<0.01		<0.01	<0.01		<0.01
4/19/2016			<0.01			
4/20/2016	<0.01			<0.01		<0.01
6/7/2016	<0.01		<0.01	<0.01		<0.01
8/30/2016	<0.01		<0.01			<0.01
8/31/2016				<0.01		
10/18/2016	<0.01					<0.01
10/19/2016			<0.01	<0.01		
1/31/2017	<0.01		<0.01	<0.01		<0.01
5/3/2017	<0.01		<0.01	<0.01		<0.01
6/7/2017	<0.01		<0.01	<0.01		<0.01
1/24/2018	<0.01		<0.01	<0.01		<0.01
5/2/2018	<0.01		<0.01	0.00328 (J)		<0.01
11/27/2018	<0.01					<0.01
11/28/2018			<0.01	<0.01		
1/8/2019		<0.01				
1/9/2019					<0.01	
5/29/2019	<0.01		<0.01	<0.01		<0.01
9/30/2019				<0.01		<0.01
10/1/2019	<0.01		<0.01		<0.01	
10/2/2019		<0.01				
3/30/2020				<0.01	<0.01	<0.01
3/31/2020	<0.01	<0.01	<0.01			
9/1/2020	<0.01	<0.01				
9/2/2020			<0.01	<0.01	<0.01	<0.01
5/11/2021						0.00156
5/17/2021			0.000313 (J)			
5/18/2021				0.00709	0.000463 (J)	

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-8V	BY-AP-MW-9	BY-GSA-MW-1 (bg)	BY-GSA-MW-2 (bg)	BY-GSA-MW-3 (bg)	BY-GSA-MW-4 (bg)
2/23/2016			<0.01	<0.01	<0.01	<0.01
3/1/2016		<0.01				
4/19/2016			<0.01	<0.01	<0.01	<0.01
4/20/2016		<0.01				
6/6/2016			<0.01			<0.01
6/7/2016				<0.01	<0.01	
6/8/2016		<0.01				
8/30/2016			<0.01	<0.01	<0.01	<0.01
8/31/2016		<0.01				
10/18/2016			<0.01	<0.01	<0.01	<0.01
10/19/2016		<0.01				
1/31/2017			<0.01	<0.01	<0.01	<0.01
2/1/2017		<0.01				
5/2/2017			<0.01	<0.01	<0.01	<0.01
5/3/2017		<0.01				
6/6/2017			<0.01	<0.01	<0.01	<0.01
6/7/2017		<0.01				
1/23/2018		<0.01	<0.01	0.00596 (J)	0.00229 (J)	<0.01
5/1/2018				<0.01	<0.01	<0.01
5/2/2018		<0.01	<0.01			
11/26/2018						<0.01
11/27/2018			<0.01	<0.01	<0.01	
11/28/2018		<0.01				
1/9/2019	<0.01					
5/28/2019						<0.01
5/29/2019			<0.01	<0.01	<0.01	
5/30/2019		<0.01				
9/30/2019		<0.01				
10/1/2019	<0.01					
10/2/2019			<0.01	<0.01	<0.01	<0.01
3/30/2020	<0.01					
3/31/2020		<0.01	<0.01	<0.01	<0.01	0.00604 (J)
9/2/2020	<0.01	<0.01				
9/8/2020						<0.01
9/9/2020			<0.01	<0.01	<0.01	
5/11/2021				0.00136	0.00146	0.00159
5/12/2021			0.000296 (J)			
5/18/2021	0.00129	0.00078 (J)				

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Constituent: Cobalt (mg/L) Analysis Run 7/14/2021 12:31 PM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V
3/1/2016		<0.005		<0.005		
3/2/2016	<0.005				0.00235 (J)	
4/19/2016	<0.005					
4/20/2016		<0.005		<0.005	0.00212 (J)	
6/8/2016	<0.005	<0.005		<0.005	0.00276 (J)	
8/31/2016	<0.005	<0.005		<0.005	0.00261 (J)	
10/19/2016	<0.005	<0.005		<0.005	0.00256 (J)	
1/31/2017	<0.005					
2/1/2017		<0.005		<0.005	0.00231 (J)	
5/2/2017	<0.005					
5/3/2017		<0.005		<0.005	0.00279 (J)	
6/6/2017	<0.005					
6/7/2017		<0.005		<0.005	0.00262 (J)	
1/23/2018		<0.005		<0.005	0.00248 (J)	
1/24/2018	<0.005					
5/1/2018	<0.005					
5/2/2018		<0.005		<0.005	0.00271 (J)	
11/28/2018	<0.005	<0.005		<0.005	0.00274 (J)	
1/8/2019			<0.005			<0.005
5/29/2019	<0.005			<0.005	0.00358 (J)	
5/30/2019		<0.005				
9/30/2019		<0.005		<0.005		
10/1/2019	<0.005		<0.005		0.00303 (J)	
10/2/2019						<0.005
3/30/2020	<0.005					
3/31/2020		<0.005	<0.005	<0.005	0.00364 (J)	<0.005
9/1/2020	<0.005	<0.005	<0.005	<0.005	0.0031 (J)	<0.005
5/11/2021		0.000636				
5/18/2021	0.000996		0.000648		0.00336	0.00237
5/19/2021				0.00257		

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Constituent: Cobalt (mg/L) Analysis Run 7/14/2021 12:31 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14	BY-AP-MW-14V	BY-AP-MW-15	BY-AP-MW-15V
3/2/2016	<0.005		<0.005		0.0279	
4/19/2016					0.0269	
4/20/2016	<0.005		<0.005			
6/8/2016	<0.005		<0.005		0.0293	
8/30/2016			<0.005			
8/31/2016	<0.005				0.0272	
10/18/2016			<0.005			
10/19/2016	<0.005				0.0285	
1/31/2017	<0.005		<0.005		0.025	
5/2/2017			<0.005		0.0274	
5/3/2017	<0.005					
6/6/2017			<0.005		0.0285	
6/7/2017	<0.005					
1/22/2018	<0.005				0.0273	
1/23/2018			<0.005			
5/1/2018					0.0298	
5/2/2018	<0.005		<0.005			
11/27/2018			<0.005		0.0311	
11/28/2018	<0.005					
5/29/2019	<0.005		<0.005		0.0343	
7/31/2019						0.0632
10/1/2019	<0.005		<0.005		0.0336	0.0629
3/31/2020	<0.005		<0.005			
4/1/2020					0.0344	
9/1/2020	<0.005					0.0665
9/2/2020		<0.005	<0.005	0.00444 (J)	0.0385	
5/11/2021					0.0349	
5/19/2021	0.00113	0.000827				
5/25/2021			0.00124	0.00271		0.0694

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/14/2021 12:31 PM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H
3/2/2016	0.0212					
4/19/2016	0.018					
6/8/2016	0.0176					
8/31/2016	0.0134					
10/19/2016	0.0193					
1/31/2017	0.017					
5/2/2017	0.0166					
6/6/2017	0.0172					
1/23/2018	0.00621 (J)					
5/1/2018	0.0189					
11/27/2018	0.0182					
3/20/2019					<0.005	
5/29/2019	0.0206					
7/31/2019			<0.005			<0.005
10/1/2019	0.0107				<0.005	<0.005
10/2/2019			0.0033 (J)			
3/31/2020	0.0199					
4/1/2020			<0.005		0.013	
9/1/2020			0.00258 (J)	0.022	<0.005	<0.005
9/2/2020	0.0192	0.0163				
5/17/2021			0.0013			
5/18/2021				0.0197		
5/19/2021	0.0182	0.0153			0.00109	
5/25/2021						0.00294

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/14/2021 12:31 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1V	BY-AP-MW-2	BY-AP-MW-20H	BY-AP-MW-20V	BY-AP-MW-22H	BY-AP-MW-23H
3/2/2016		0.00842 (J)				
4/19/2016		0.008 (J)				
6/8/2016		0.00796 (J)				
8/31/2016		0.00752 (J)				
10/19/2016		0.00778 (J)				
1/31/2017		0.00647 (J)				
5/2/2017		0.00686 (J)				
6/6/2017		0.00694 (J)				
1/24/2018		0.00592 (J)				
5/1/2018		0.00693 (J)				
11/27/2018		0.0066				
1/8/2019	0.00911					
5/29/2019		0.00745				
7/31/2019			0.00433 (J)		0.00233 (J)	0.0031 (J)
10/1/2019		0.00696	0.00431 (J)		0.00268 (J)	0.00201 (J)
10/2/2019	0.00289 (J)					
3/30/2020	<0.005					
3/31/2020		0.00716				
4/1/2020			0.00541			0.0206
8/31/2020		0.00751				
9/1/2020	0.00407 (J)		0.0046 (J)	0.012	0.00294 (J)	0.0273
5/18/2021	0.00483	0.00746				
5/19/2021			0.00426	0.0173		
5/24/2021						0.00682
5/25/2021					0.00264	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/14/2021 12:31 PM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-25VM	BY-AP-MW-3	BY-AP-MW-4
3/1/2016						<0.005
3/2/2016					<0.005	
4/19/2016					<0.005	<0.005
6/7/2016					<0.005	0.00424 (J)
8/30/2016						0.00262 (J)
8/31/2016					<0.005	
10/19/2016					<0.005	0.00469 (J)
1/31/2017					<0.005	0.0127 (o)
5/2/2017					<0.005	0.00891 (J)
6/6/2017					<0.005	0.00217 (J)
1/24/2018					<0.005	<0.005
5/1/2018					<0.005	0.0126 (o)
11/27/2018					<0.005	0.00363 (J)
1/8/2019		0.00243 (J)				
5/29/2019					<0.005	0.00549
10/1/2019					<0.005	<0.005
10/2/2019		0.00513				
3/31/2020		0.00528			<0.005	0.0205
9/1/2020	<0.005				<0.005	0.00657
9/2/2020		0.0061	0.00246 (J)	<0.005		
5/17/2021	0.000217					
5/18/2021					0.000196 (J)	0.018
5/24/2021			0.00156			
5/25/2021		0.00542				

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/14/2021 12:31 PM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-5	BY-AP-MW-5V	BY-AP-MW-6	BY-AP-MW-7	BY-AP-MW-7V	BY-AP-MW-8
3/1/2016	<0.005		<0.005	0.011		<0.005
4/19/2016			<0.005			
4/20/2016	<0.005			0.0148		<0.005
6/7/2016	<0.005		<0.005	0.0172		<0.005
8/30/2016	<0.005		<0.005			<0.005
8/31/2016				0.0175		
10/18/2016	<0.005					<0.005
10/19/2016			<0.005	0.0189		
1/31/2017	<0.005		<0.005	0.0165		<0.005
5/3/2017	<0.005		<0.005	0.0172		<0.005
6/7/2017	<0.005		<0.005	0.0173		<0.005
1/24/2018	<0.005		<0.005	0.0158		<0.005
5/2/2018	<0.005		<0.005	0.0169		<0.005
11/27/2018	<0.005					<0.005
11/28/2018			<0.005	0.0178		
1/8/2019		<0.005				
1/9/2019					<0.005	
5/29/2019	<0.005		<0.005	0.0197		<0.005
9/30/2019				0.0186		<0.005
10/1/2019	<0.005		<0.005		<0.005	
10/2/2019		<0.005				
3/30/2020				0.0172	<0.005	<0.005
3/31/2020	<0.005	<0.005	<0.005			
9/1/2020	<0.005	<0.005				
9/2/2020			<0.005	0.0197	<0.005	<0.005
5/11/2021						0.000778
5/17/2021			0.000678			
5/18/2021				0.0189	0.000139 (J)	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/14/2021 12:31 PM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-8V	BY-AP-MW-9	BY-GSA-MW-1 (bg)	BY-GSA-MW-2 (bg)	BY-GSA-MW-3 (bg)	BY-GSA-MW-4 (bg)
2/23/2016			0.0035 (J)	<0.005	<0.005	<0.005
3/1/2016		<0.005				
4/19/2016			0.0038 (J)	<0.005	<0.005	<0.005
4/20/2016		<0.005				
6/6/2016			0.00427 (J)			<0.005
6/7/2016				<0.005	<0.005	
6/8/2016		<0.005				
8/30/2016			0.00348 (J)	<0.005	<0.005	<0.005
8/31/2016		<0.005				
10/18/2016			0.00338 (J)	<0.005	<0.005	<0.005
10/19/2016		<0.005				
1/31/2017			0.00308 (J)	<0.005	<0.005	<0.005
2/1/2017		<0.005				
5/2/2017			0.00314 (J)	<0.005	<0.005	<0.005
5/3/2017		<0.005				
6/6/2017			0.0036 (J)	<0.005	<0.005	<0.005
6/7/2017		<0.005				
1/23/2018		<0.005	0.00586 (J)	0.0021 (J)	<0.005	<0.005
5/1/2018				<0.005	<0.005	<0.005
5/2/2018		<0.005	0.00702 (J)			
11/26/2018						<0.005
11/27/2018			0.0157		<0.005	
11/28/2018		<0.005				
1/9/2019	<0.005					
5/28/2019						<0.005
5/29/2019			0.0109	0.00248 (J)	<0.005	
5/30/2019		<0.005				
9/30/2019		<0.005				
10/1/2019	<0.005					
10/2/2019			0.0129	0.00244 (J)	<0.005	<0.005
3/30/2020	<0.005					
3/31/2020		<0.005	0.0123	0.00224 (J)	<0.005	<0.005
9/2/2020	<0.005	<0.005				
9/8/2020						<0.005
9/9/2020			0.00697	0.00219 (J)	<0.005	
5/11/2021				0.00194	0.00142	0.00137
5/12/2021			0.00611			
5/18/2021	0.000882	0.000725				

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V
3/1/2016		<3		<3		
3/2/2016	<3				<3	
4/19/2016	3.0268					
4/20/2016		<3		0.667	<3	
6/7/2016					1.08	
6/8/2016	1.59	1.06		0.704		
8/31/2016	2.19	0.871		0.726	0.528	
10/19/2016		1.575 (D)		0.737	0.81	
1/31/2017	1.23					
2/1/2017		1		0.766	1.11	
5/2/2017	1.62					
5/3/2017		1.07		0.515	0.639	
6/6/2017	1.24					
6/7/2017		0.254 (U)		1.04	0.705	
1/23/2018		0.795 (U)		1.17 (U)	1.1 (U)	
1/24/2018	1.96 (U)					
5/1/2018	1.6					
5/2/2018		0.405		0.505	1.11	
11/28/2018	1.48	0.609		0.232 (U)	0.846	
1/8/2019			1.35			1.04
5/29/2019	2.25			0.726	2.06	
5/30/2019		0.0949 (U)				
9/30/2019		0.965		0.489 (U)		
10/1/2019	2.84		1.99		0.984	
10/2/2019						0.896
3/30/2020	2.31					
3/31/2020		1.14	0.957	0.462 (U)	1.26	0.923
5/11/2021		1.12 (U)				
5/18/2021	2.99		1.66		1.11	1.31
5/19/2021				1.15		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14	BY-AP-MW-14V	BY-AP-MW-15	BY-AP-MW-15V
3/2/2016	<3		<3		<3	
4/19/2016					<3	
4/20/2016	0.398		<3			
6/7/2016	0.812					
6/8/2016			0.631		0.557	
8/30/2016			0.693			
8/31/2016	0.46 (U)				0.765	
10/18/2016			0.626			
10/19/2016	0.601				0.654	
1/31/2017	1.1		0.0723 (U)		0.402 (U)	
5/2/2017			0.363 (U)		0.578	
5/3/2017	0.832					
6/6/2017			0.198 (U)		0.128 (U)	
6/7/2017	0.752					
1/22/2018	0.898 (U)				0.768 (U)	
1/23/2018			0.294 (U)			
5/1/2018					0.651	
5/2/2018	0.752		0.522			
11/27/2018			0.576		0.764	
11/28/2018	0.523					
5/29/2019	1.01		0.437 (U)		0.433	
7/31/2019						1.09 (D)
10/1/2019	1.07		1.11		0.988	1.51
3/31/2020	0.725		0.941			
4/1/2020					0.527	
5/12/2020						1.67
5/11/2021					0.684 (U)	
5/19/2021	1.15	0.783 (U)				
5/25/2021			0.978 (U)	0.859 (U)		1.72

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H
3/2/2016	<3					
4/19/2016	<3					
6/8/2016	0.344 (U)					
8/31/2016	0.582					
10/19/2016	0.448					
1/31/2017	0.653					
5/2/2017	0.698					
6/6/2017	0.548					
1/23/2018	0.98 (U)					
5/1/2018	0.623					
11/27/2018	0.744					
5/29/2019	2.51					
7/31/2019			0.621 (D)			0.272 (UD)
10/1/2019	0.443 (U)			0.6		0.817
10/2/2019			1.14			
3/31/2020	0.341 (U)					
4/1/2020			0.797		1.05	
5/12/2020						0.691
5/17/2021			1.64			
5/18/2021				1.05 (U)		
5/19/2021	0.321 (U)	0.496 (U)			0.971 (U)	
5/25/2021						1.04 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1V	BY-AP-MW-2	BY-AP-MW-20H	BY-AP-MW-20V	BY-AP-MW-22H	BY-AP-MW-23H
3/2/2016		<3				
4/19/2016		<3				
6/8/2016		0.121 (U)				
8/31/2016		0.348 (U)				
10/19/2016		0.48				
1/31/2017		0.00333 (U)				
5/2/2017		0.4 (U)				
6/6/2017		0.083 (U)				
1/24/2018		0.404 (U)				
5/1/2018		0.457				
11/27/2018		0.359 (U)				
1/8/2019	1.06					
5/29/2019		1.18				
7/31/2019			0.268 (UD)		0.448 (D)	0.331 (UD)
10/1/2019		0.284 (U)	1.22		0.508	1.05
10/2/2019	1.03					
3/30/2020	0.579					
3/31/2020		0.699				
4/1/2020			0.968			0.618
5/12/2020					0.61	
5/18/2021	0.814 (U)	0.72 (U)				
5/19/2021			1.03 (U)	1.43		
5/24/2021						1.1 (U)
5/25/2021					1.26	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5
3/1/2016					<3	<3
3/2/2016				<3		
4/19/2016				<3	<3	
4/20/2016						3.0801
6/7/2016				0.455	0.287 (U)	1.5
8/30/2016					0.585	1.17
8/31/2016				0.329 (U)		
10/18/2016						1.93
10/19/2016				0.536	1.85	
1/31/2017				0.496	0.25 (U)	1
5/2/2017				0.149 (U)	0.391 (U)	
5/3/2017						1.48
6/6/2017				0.191 (U)	0.183 (U)	
6/7/2017						0.915
1/24/2018				0.543 (U)	0.622 (U)	1.74 (U)
5/1/2018				0.372 (U)	0.0917 (U)	
5/2/2018						0.58
11/27/2018				0.591	0.695	1.43
1/8/2019		1.49				
5/29/2019				2.31	0.947	2.16
10/1/2019				1.52	0.7	2.14
10/2/2019		1.24				
3/31/2020		0.577		0.478 (U)	0.323 (U)	0.754
5/17/2021	0.374 (U)					
5/18/2021				0.749 (U)	0.734 (U)	
5/24/2021			0.545 (U)			
5/25/2021		0.695 (U)				

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-5V	BY-AP-MW-6	BY-AP-MW-7	BY-AP-MW-7V	BY-AP-MW-8	BY-AP-MW-8V
3/1/2016		<3	<3		<3	
4/19/2016		<3				
4/20/2016			<3		<3	
6/7/2016		0.353 (U)	0.555 (U)		0.853	
8/30/2016		0.428 (U)			0.669	
8/31/2016			0.284 (U)			
10/18/2016					1.32	
10/19/2016		0.449 (U)	0.557 (U)			
1/31/2017		-0.0173 (U)	0.0949 (U)		0.801	
5/3/2017		0.447	0.53		0.648	
6/7/2017		0.572	-0.231 (U)		0.408 (U)	
1/24/2018		1.09 (U)	0.691 (U)		0.706 (U)	
5/2/2018		0.187 (U)	0.535		0.572	
11/27/2018					0.687	
11/28/2018		0.478 (U)	0.62			
1/8/2019	0.298 (U)					
1/9/2019				0.527		1.69
5/29/2019		-0.276 (U)	0.244 (U)		0.627 (U)	
9/30/2019			0.388 (U)		0.321 (U)	
10/1/2019		0.742		1.01		1.66
10/2/2019	0.206 (U)					
3/30/2020			0.744	0.604	0.6	0.787
3/31/2020	0.024 (U)	0.291 (U)				
5/11/2021					0.648 (U)	
5/17/2021		1.84				
5/18/2021			0.597 (U)	0.199 (U)		0.975 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-9	BY-GSA-MW-1 (bg)	BY-GSA-MW-2 (bg)	BY-GSA-MW-3 (bg)	BY-GSA-MW-4 (bg)
2/23/2016		2.8971 (U)	3 (U)	3 (U)	2.1138
3/1/2016	<3				
4/19/2016		3 (U)	3 (U)	3 (U)	3 (U)
4/20/2016	<3				
6/6/2016		0.841			0.757
6/7/2016			0.652	0.342 (U)	
6/8/2016	0.837				
8/30/2016		1.74	0.411 (U)	0.702	0.992
8/31/2016	0.917				
10/18/2016		1.47	1	0.791	0.905
10/19/2016	1.41				
1/31/2017		0.952	0.398 (U)	0.0613 (U)	1.08
2/1/2017	0.785				
5/2/2017		0.768	0.66	0.974	1.18
5/3/2017	1.33				
6/6/2017		1.04	0.639	0.748	1.1
6/7/2017	0.758				
1/23/2018	1.06 (U)	0.513 (U)	0.669 (U)	0.558 (U)	1.32 (U)
5/1/2018			1.06	0.296 (U)	1.19
5/2/2018	0.983	0.916			
11/26/2018					0.863
11/27/2018		1.37	0.636	0.357 (U)	
11/28/2018	0.747				
5/28/2019					0.474 (U)
5/29/2019		1.57	0.579 (U)	0.275 (U)	
5/30/2019	1.08				
9/30/2019	0.58				
10/2/2019		0.905	1.33	0.458 (U)	0.624 (U)
3/31/2020	0.82	1.77	0.814	0.941	1.09
5/11/2021			0.945 (U)	0.521 (U)	0.969 (U)
5/12/2021		0.639 (U)			
5/18/2021	0.98 (U)				

Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V
3/1/2016		0.02 (J)		0.06 (J)		
3/2/2016	0.03 (J)				0.04 (J)	
4/19/2016	0.052 (J)					
4/20/2016		0.034 (J)		0.073 (J)	0.059 (J)	
6/8/2016	0.069 (J)	0.061 (J)		0.085 (J)	0.08 (J)	
8/31/2016	0.043 (J)	0.04 (J)		0.064 (J)	0.059 (J)	
10/19/2016	<0.1	0.03 (J)		0.05 (J)	0.045 (J)	
3/21/2017	0.04 (J)					
3/22/2017		<0.1		0.05 (J)	0.04 (J)	
5/2/2017	0.05 (J)					
5/3/2017		0.04 (J)		0.06 (J)	0.06 (J)	
6/6/2017	0.049 (J)					
6/7/2017		0.04 (J)		0.06 (J)	0.06 (J)	
9/13/2017	<0.1 (U*)			<0.1 (U*)	<0.1 (U*)	
9/14/2017		0.04 (J)				
1/23/2018		<0.1		0.06 (J)	0.05 (J)	
1/24/2018	0.05 (J)					
5/1/2018	0.05 (J)					
5/2/2018		<0.1		0.06 (J)	0.06 (J)	
11/28/2018	<0.1	<0.1		0.05 (J)	0.04 (J)	
1/8/2019			0.123			0.0729 (J)
5/29/2019	0.0858 (J)			0.0759 (J)	0.0677 (J)	
5/30/2019		0.0573 (J)				
9/30/2019		<0.1		0.0733 (J)		
10/1/2019	0.0744 (J)		0.0517 (J)		0.0682 (J)	
10/2/2019						0.12
3/30/2020	0.0726 (J)					
3/31/2020		<0.1	<0.1	0.078 (J)	0.0755 (J)	0.0828 (J)
9/1/2020	0.194	0.0794 (J)	0.0695 (J)	0.0841 (J)	0.0845 (J)	0.0947 (J)
5/11/2021		0.105				
5/18/2021	0.0884 (J)		<0.1		0.0614 (J)	0.0783 (J)
5/19/2021				0.0994 (J)		

Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14	BY-AP-MW-14V	BY-AP-MW-15	BY-AP-MW-15V
3/2/2016	0.05 (J)		0.07 (J)		0.18 (J)	
4/19/2016					0.21 (J)	
4/20/2016	0.064 (J)		0.076 (J)			
6/8/2016	0.082 (J)		0.105 (J)		0.223 (J)	
8/30/2016			0.083 (J)			
8/31/2016	0.062 (J)				0.196 (J)	
10/18/2016			0.067 (J)			
10/19/2016	0.049 (J)				0.166 (J)	
3/21/2017					0.18	
3/22/2017	0.05 (J)		0.06 (J)			
5/2/2017			0.08 (J)		0.18	
5/3/2017	0.06 (J)					
6/6/2017			0.077 (J)		0.18	
6/7/2017	0.07 (J)					
9/13/2017	<0.1 (U*)		<0.1 (U*)		<0.1 (U*)	
1/22/2018	0.06 (J)				0.19	
1/23/2018			0.08 (J)			
5/1/2018					0.19	
5/2/2018	0.07 (J)		0.08 (J)			
11/27/2018			0.06 (J)		0.18	
11/28/2018	0.05 (J)					
5/29/2019	0.0679 (J)		0.0781 (J)		0.168	
7/31/2019						0.0515 (J)
10/1/2019	0.0703 (J)		0.0885 (J)		0.185	0.0931 (J)
3/31/2020	0.0665 (J)		0.0867 (J)			
4/1/2020					0.187	
9/1/2020	0.0757 (J)					0.0624 (J)
9/2/2020		0.0864 (J)	0.0957 (J)	0.359	0.18	
5/11/2021					0.214	
5/19/2021	0.0748 (J)	0.0884 (J)				
5/25/2021			0.0957 (J)	0.378		<0.1

Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H
3/2/2016	0.04 (J)					
4/19/2016	0.05 (J)					
6/8/2016	0.073 (J)					
8/31/2016	0.051 (J)					
10/19/2016	<0.1					
3/21/2017	0.04 (J)					
5/2/2017	0.05 (J)					
6/6/2017	0.053 (J)					
9/13/2017	<0.1 (U*)					
1/23/2018	0.05 (J)					
5/1/2018	0.05 (J)					
11/27/2018	<0.1					
3/20/2019				0.215		
5/29/2019	0.0683 (J)					
7/31/2019			0.178			0.153
10/1/2019	0.0774 (J)				0.071 (J)	0.0712 (J)
10/2/2019			0.254			
3/31/2020	0.0602 (J)					
4/1/2020			0.151		0.0722 (J)	
9/1/2020			0.196	0.144	0.0784 (J)	0.0752 (J)
9/2/2020	<0.1	<0.1				
5/17/2021			0.148			
5/18/2021				0.16		
5/19/2021	0.0793 (J)	<0.1			0.0886 (J)	
5/25/2021						0.0673 (J)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1V	BY-AP-MW-2	BY-AP-MW-20H	BY-AP-MW-20V	BY-AP-MW-22H	BY-AP-MW-23H
3/2/2016		0.04 (J)				
4/19/2016		0.038 (J)				
6/8/2016		0.067 (J)				
8/31/2016		0.05 (J)				
10/19/2016		<0.1				
3/21/2017		<0.1				
5/2/2017		0.04 (J)				
6/6/2017		0.04 (J)				
9/12/2017		0.037 (J)				
1/24/2018		<0.1				
5/1/2018		<0.1				
11/27/2018		<0.1				
1/8/2019	0.0548 (J)					
5/29/2019		<0.1				
7/31/2019			0.0934 (J)		0.257	0.0766 (J)
10/1/2019		<0.1	0.0838 (J)		0.268	0.0804 (J)
10/2/2019	0.0595 (J)					
3/30/2020	<0.1					
3/31/2020		<0.1				
4/1/2020			0.0793 (J)			0.0607 (J)
8/31/2020		<0.1				
9/1/2020	<0.1		0.0954 (J)	0.106	0.301	0.0919 (J)
5/18/2021	<0.1	<0.1				
5/19/2021			0.0852 (J)	0.123		
5/24/2021						0.0734 (J)
5/25/2021					0.282	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-25VM	BY-AP-MW-3	BY-AP-MW-4
3/1/2016						0.02 (J)
3/2/2016					0.01 (J)	
4/19/2016					0.014 (J)	0.016 (J)
6/7/2016					0.049 (J)	0.047 (J)
8/30/2016						0.035 (J)
8/31/2016					0.034 (J)	
10/19/2016					0.023 (J)	0.025 (J)
3/21/2017					<0.1	<0.1
5/2/2017					<0.1	<0.1
6/6/2017					<0.1	<0.1
9/12/2017					<0.1	<0.1
1/24/2018					<0.1	<0.1
5/1/2018					<0.1	<0.1
11/27/2018					<0.1	<0.1
1/8/2019		0.147				
5/29/2019					<0.1	<0.1
10/1/2019					<0.1	<0.1
10/2/2019		0.183				
3/31/2020		0.148			<0.1	<0.1
9/1/2020	0.401				<0.1	<0.1
9/2/2020		0.158	<0.1	<0.1		
5/17/2021	0.379					
5/18/2021					<0.1	<0.1
5/24/2021			<0.1			
5/25/2021		0.156				

Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-5	BY-AP-MW-5V	BY-AP-MW-6	BY-AP-MW-7	BY-AP-MW-7V	BY-AP-MW-8
3/1/2016	0.04 (J)		<0.1	0.06 (J)		0.03 (J)
4/19/2016			0.016 (J)			
4/20/2016	0.043 (J)			0.078 (J)		0.043 (J)
6/7/2016	0.075 (J)		0.048 (J)	0.101 (J)		0.069 (J)
8/30/2016	0.057 (J)		0.034 (J)			0.052 (J)
8/31/2016				0.086 (J)		
10/18/2016	0.049 (J)					0.042 (J)
10/19/2016			0.023 (J)	0.075 (J)		
3/22/2017	0.04 (J)		<0.1	0.06 (J)		<0.1
5/3/2017	0.05 (J)		<0.1	0.08 (J)		0.05 (J)
6/7/2017	0.05 (J)		<0.1	0.08 (J)		0.05 (J)
9/14/2017	0.06 (J)		<0.1	0.07 (J)		0.05 (J)
1/24/2018	0.05 (J)		<0.1	0.09 (J)		0.04 (J)
5/2/2018	0.05 (J)		<0.1	0.08 (J)		0.04 (J)
11/27/2018	<0.1					<0.1
11/28/2018			<0.1	0.07 (J)		
1/8/2019		<0.1				
1/9/2019					0.139	
5/29/2019	0.0923 (J)		<0.1	0.0937 (J)		0.0958 (J)
9/30/2019				0.0925 (J)		0.0559 (J)
10/1/2019	0.0557 (J)		<0.1		0.0871 (J)	
10/2/2019		0.0777 (J)				
3/30/2020				0.0933 (J)	0.127	0.0701 (J)
3/31/2020	0.0735 (J)	<0.1	<0.1			
9/1/2020	0.0921 (J)	0.0807 (J)				
9/2/2020			<0.1	0.109	0.126	<0.1
5/11/2021						0.094 (J)
5/17/2021			<0.1			
5/18/2021				0.11	0.112	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-8V	BY-AP-MW-9	BY-GSA-MW-1 (bg)	BY-GSA-MW-2 (bg)	BY-GSA-MW-3 (bg)	BY-GSA-MW-4 (bg)
2/23/2016			0.03 (J)	0.02 (J)	0.02 (J)	0.02 (J)
3/1/2016		0.04 (J)				
4/19/2016			0.023 (J)	0.021 (J)	0.016 (J)	0.015 (J)
4/20/2016		0.052 (J)				
6/6/2016			0.062 (J)			0.05 (J)
6/7/2016				0.06 (J)	0.052 (J)	
6/8/2016		0.077 (J)				
8/30/2016			0.053 (J)	0.05 (J)	0.038 (J)	0.036 (J)
8/31/2016		0.056 (J)				
10/18/2016			0.042 (J)	0.04 (J)	0.03 (J)	0.025 (J)
10/19/2016		0.045 (J)				
3/20/2017			<0.1	<0.1	<0.1	<0.1
3/22/2017		0.05 (J)				
5/2/2017			0.04 (JD)	0.04 (JD)	0.075 (D)	0.075 (D)
5/3/2017		0.06 (J)				
6/6/2017			0.075 (D)	0.04 (JD)	0.075 (D)	0.075 (D)
6/7/2017		0.06 (J)				
9/12/2017						<0.1
9/13/2017			0.04 (J)	0.043 (J)	<0.1	
9/14/2017		0.07 (J)				
1/23/2018		0.06 (J)	<0.1	0.04 (J)	<0.1	<0.1
5/1/2018				0.04 (J)	<0.1	<0.1
5/2/2018		0.05 (J)	0.04 (J)			
11/26/2018						<0.1
11/27/2018			<0.1	<0.1	<0.1	
11/28/2018		0.04 (J)				
1/9/2019	0.0831 (J)					
5/28/2019						<0.1
5/29/2019			0.0502 (J)	<0.1	<0.1	
5/30/2019		0.0763 (J)				
9/30/2019		0.0679 (J)				
10/1/2019	0.0832 (J)					
10/2/2019			<0.1	<0.1	<0.1	<0.1
3/30/2020	0.0935 (J)					
3/31/2020		0.0655 (J)	<0.1	<0.1	<0.1	<0.1
9/2/2020	0.098 (J)	0.0804 (J)				
9/8/2020						<0.1
9/9/2020			<0.1	<0.1	<0.1	
5/11/2021				<0.1	<0.1	<0.1
5/12/2021			<0.1			
5/18/2021	0.0958 (J)	0.0709 (J)				

Time Series

Constituent: Lead (mg/L) Analysis Run 7/14/2021 12:31 PM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V
3/1/2016		<0.000203		<0.000203		
3/2/2016	<0.000203				<0.000203	
4/19/2016	<0.000203					
4/20/2016		<0.000203		<0.000203	<0.000203	
6/8/2016	<0.000203	<0.000203		<0.000203	<0.000203	
8/31/2016	<0.000203	<0.000203		<0.000203	<0.000203	
10/19/2016	<0.000203	<0.000203		<0.000203	<0.000203	
1/31/2017	<0.000203					
2/1/2017		<0.000203		<0.000203	<0.000203	
5/2/2017	<0.000203					
5/3/2017		<0.000203		<0.000203	<0.000203	
6/6/2017	<0.000203					
6/7/2017		<0.000203		<0.000203	<0.000203	
1/23/2018		<0.000203		<0.000203	<0.000203	
1/24/2018	<0.000203					
5/1/2018	<0.000203					
5/2/2018		<0.000203		<0.000203	<0.000203	
11/28/2018	<0.000203	<0.000203		<0.000203	<0.000203	
1/8/2019			<0.000203			<0.000203
5/29/2019	<0.000203			<0.000203	<0.000203	
5/30/2019		<0.000203				
9/30/2019		<0.000203		<0.000203		
10/1/2019	<0.000203		<0.000203		<0.000203	
10/2/2019						<0.000203
3/30/2020	<0.000203					
3/31/2020		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
9/1/2020	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
5/11/2021		<0.000203				
5/18/2021	<0.000203		<0.000203		0.000326	8.16E-05 (J)
5/19/2021				0.000102 (J)		

Time Series

Constituent: Lead (mg/L) Analysis Run 7/14/2021 12:31 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14	BY-AP-MW-14V	BY-AP-MW-15	BY-AP-MW-15V
3/2/2016	<0.000203		<0.000203		<0.000203	
4/19/2016					<0.000203	
4/20/2016	<0.000203		<0.000203			
6/8/2016	<0.000203		<0.000203		<0.000203	
8/30/2016			<0.000203			
8/31/2016	<0.000203				<0.000203	
10/18/2016			<0.000203			
10/19/2016	<0.000203				<0.000203	
1/31/2017	<0.000203		<0.000203		<0.000203	
5/2/2017			<0.000203		<0.000203	
5/3/2017	<0.000203					
6/6/2017			<0.000203		<0.000203	
6/7/2017	<0.000203					
1/22/2018	<0.000203				<0.000203	
1/23/2018			<0.000203			
5/1/2018					<0.000203	
5/2/2018	<0.000203		<0.000203			
11/27/2018			<0.000203		<0.000203	
11/28/2018	<0.000203					
5/29/2019	<0.000203		<0.000203		<0.000203	
7/31/2019						<0.000203
10/1/2019	<0.000203		<0.000203		<0.000203	<0.000203
3/31/2020	<0.000203		<0.000203			
4/1/2020					<0.000203	
9/1/2020	<0.000203					<0.000203
9/2/2020		<0.000203	<0.000203	<0.000203	<0.000203	
5/11/2021					<0.000203	
5/19/2021	<0.000203	<0.000203				
5/25/2021			7.64E-05 (J)	7.24E-05 (J)		<0.000203

Time Series

Constituent: Lead (mg/L) Analysis Run 7/14/2021 12:31 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H
3/2/2016	<0.000203					
4/19/2016	<0.000203					
6/8/2016	<0.000203					
8/31/2016	<0.000203					
10/19/2016	<0.000203					
1/31/2017	<0.000203					
5/2/2017	<0.000203					
6/6/2017	<0.000203					
1/23/2018	<0.000203					
5/1/2018	<0.000203					
11/27/2018	<0.000203					
3/20/2019				<0.000203		
5/29/2019	<0.000203					
7/31/2019			<0.000203			<0.000203
10/1/2019	<0.000203				<0.000203	<0.000203
10/2/2019			<0.000203			
3/31/2020	<0.000203					
4/1/2020			<0.000203		<0.000203	
9/1/2020			<0.000203	<0.000203	<0.000203	<0.000203
9/2/2020	<0.000203	<0.000203				
5/17/2021			9.09E-05 (J)			
5/18/2021				0.000137 (J)		
5/19/2021	0.000191 (J)	<0.000203			<0.000203	
5/25/2021						<0.000203

Time Series

Constituent: Lead (mg/L) Analysis Run 7/14/2021 12:31 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1V	BY-AP-MW-2	BY-AP-MW-20H	BY-AP-MW-20V	BY-AP-MW-22H	BY-AP-MW-23H
3/2/2016		<0.000203				
4/19/2016		<0.000203				
6/8/2016		<0.000203				
8/31/2016		<0.000203				
10/19/2016		<0.000203				
1/31/2017		<0.000203				
5/2/2017		<0.000203				
6/6/2017		<0.000203				
1/24/2018		<0.000203				
5/1/2018		<0.000203				
11/27/2018		<0.000203				
1/8/2019	<0.000203					
5/29/2019		<0.000203				
7/31/2019			<0.000203		<0.000203	<0.000203
10/1/2019		<0.000203	<0.000203		<0.000203	<0.000203
10/2/2019	<0.000203					
3/30/2020	<0.000203					
3/31/2020		<0.000203				
4/1/2020			<0.000203			<0.000203
8/31/2020		<0.000203				
9/1/2020	<0.000203		<0.000203	<0.000203	<0.000203	<0.000203
5/18/2021	<0.000203	<0.000203				
5/19/2021			0.000224	<0.000203		
5/24/2021						<0.000203
5/25/2021					<0.000203	

Time Series

Constituent: Lead (mg/L) Analysis Run 7/14/2021 12:31 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-25VM	BY-AP-MW-3	BY-AP-MW-4
3/1/2016						<0.000203
3/2/2016					<0.000203	
4/19/2016					<0.000203	<0.000203
6/7/2016					<0.000203	<0.000203
8/30/2016						<0.000203
8/31/2016					<0.000203	
10/19/2016					<0.000203	<0.000203
1/31/2017					<0.000203	<0.000203
5/2/2017					<0.000203	<0.000203
6/6/2017					<0.000203	<0.000203
1/24/2018					<0.000203	<0.000203
5/1/2018					<0.000203	<0.000203
11/27/2018					<0.000203	<0.000203
1/8/2019		<0.000203				
5/29/2019					<0.000203	<0.000203
10/1/2019					<0.000203	<0.000203
10/2/2019		<0.000203				
3/31/2020		<0.000203			<0.000203	<0.000203
9/1/2020	<0.000203				<0.000203	<0.000203
9/2/2020		<0.000203	<0.000203	<0.000203		
5/17/2021	0.000216					
5/18/2021					<0.000203	0.00013 (J)
5/24/2021			<0.000203			
5/25/2021		<0.000203				

Time Series

Constituent: Lead (mg/L) Analysis Run 7/14/2021 12:31 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-5	BY-AP-MW-5V	BY-AP-MW-6	BY-AP-MW-7	BY-AP-MW-7V	BY-AP-MW-8
3/1/2016	<0.000203		<0.000203	<0.000203		<0.000203
4/19/2016			<0.000203			
4/20/2016	<0.000203			<0.000203		<0.000203
6/7/2016	<0.000203		<0.000203	<0.000203		<0.000203
8/30/2016	<0.000203		<0.000203			<0.000203
8/31/2016				<0.000203		
10/18/2016	<0.000203					<0.000203
10/19/2016			<0.000203	<0.000203		
1/31/2017	<0.000203		<0.000203	<0.000203		<0.000203
5/3/2017	<0.000203		<0.000203	<0.000203		<0.000203
6/7/2017	<0.000203		<0.000203	<0.000203		<0.000203
1/24/2018	<0.000203		<0.000203	<0.000203		<0.000203
5/2/2018	<0.000203		<0.000203	<0.000203		<0.000203
11/27/2018	<0.000203					<0.000203
11/28/2018			<0.000203	<0.000203		
1/8/2019		<0.000203				
1/9/2019					<0.000203	
5/29/2019	<0.000203		0.00185 (J)	<0.000203		<0.000203
9/30/2019				<0.000203		<0.000203
10/1/2019	<0.000203		0.00545		<0.000203	
10/2/2019		<0.000203				
3/30/2020				<0.000203	<0.000203	<0.000203
3/31/2020	<0.000203	<0.000203	0.00276 (J)			
9/1/2020	<0.000203	<0.000203				
9/2/2020			0.00171 (J)	<0.000203	<0.000203	<0.000203
5/11/2021						<0.000203
5/17/2021			0.00162			
5/18/2021				<0.000203	<0.000203	

Time Series

Constituent: Lead (mg/L) Analysis Run 7/14/2021 12:31 PM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-8V	BY-AP-MW-9	BY-GSA-MW-1 (bg)	BY-GSA-MW-2 (bg)	BY-GSA-MW-3 (bg)	BY-GSA-MW-4 (bg)
2/23/2016			<0.000203	<0.000203	<0.000203	<0.000203
3/1/2016		<0.000203				
4/19/2016			<0.000203	<0.000203	<0.000203	<0.000203
4/20/2016		<0.000203				
6/6/2016			<0.000203			<0.000203
6/7/2016				<0.000203	<0.000203	
6/8/2016		<0.000203				
8/30/2016			<0.000203	<0.000203	<0.000203	<0.000203
8/31/2016		<0.000203				
10/18/2016			<0.000203	<0.000203	<0.000203	<0.000203
10/19/2016		<0.000203				
1/31/2017			<0.000203	<0.000203	<0.000203	<0.000203
2/1/2017		<0.000203				
5/2/2017			<0.000203	<0.000203	<0.000203	<0.000203
5/3/2017		<0.000203				
6/6/2017			<0.000203	<0.000203	<0.000203	<0.000203
6/7/2017		<0.000203				
1/23/2018		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
5/1/2018				<0.000203	<0.000203	<0.000203
5/2/2018		<0.000203	<0.000203			
11/26/2018						<0.000203
11/27/2018			<0.000203	<0.000203	<0.000203	
11/28/2018		<0.000203				
1/9/2019	<0.000203					
5/28/2019						<0.000203
5/29/2019			<0.000203	<0.000203	<0.000203	
5/30/2019		0.00108 (J)				
9/30/2019		<0.000203				
10/1/2019	<0.000203					
10/2/2019			<0.000203	<0.000203	<0.000203	<0.000203
3/30/2020	<0.000203					
3/31/2020		<0.000203	<0.000203	<0.000203	<0.000203	0.00126 (J)
9/2/2020	<0.000203	<0.000203				
9/8/2020						<0.000203
9/9/2020			<0.000203	<0.000203	<0.000203	
5/11/2021				0.000118 (J)	<0.000203	0.000159 (J)
5/12/2021			9.79E-05 (J)			
5/18/2021	<0.000203	<0.000203				

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/14/2021 12:31 PM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V
3/1/2016		<0.01999956		<0.01999956		
3/2/2016	<0.01999956				<0.01999956	
4/19/2016	<0.01999956					
4/20/2016		<0.01999956		<0.01999956	<0.01999956	
6/8/2016	<0.01999956	<0.01999956		<0.01999956	<0.01999956	
8/31/2016	<0.01999956	<0.01999956		<0.01999956	<0.01999956	
10/19/2016	<0.01999956	<0.01999956		<0.01999956	<0.01999956	
1/31/2017	<0.01999956					
2/1/2017		<0.01999956		<0.01999956	<0.01999956	
5/2/2017	<0.01999956					
5/3/2017		<0.01999956		<0.01999956	<0.01999956	
6/6/2017	<0.01999956					
6/7/2017		<0.01999956		<0.01999956	<0.01999956	
1/23/2018		<0.01999956		<0.01999956	<0.01999956	
1/24/2018	<0.01999956					
5/1/2018	<0.01999956					
5/2/2018		<0.01999956		0.0384 (J)	<0.01999956	
11/28/2018	<0.01999956	<0.01999956		0.0262	<0.01999956	
1/8/2019			0.0313			0.0148 (J)
5/29/2019	<0.01999956			0.0321	<0.01999956	
5/30/2019		<0.01999956				
9/30/2019		<0.01999956		0.0228		
10/1/2019	<0.01999956		<0.01999956		<0.01999956	
10/2/2019						<0.01999956
3/30/2020	<0.01999956					
3/31/2020		<0.01999956	<0.01999956	0.022	<0.01999956	<0.01999956
9/1/2020	<0.01999956	<0.01999956	<0.01999956	<0.01999956	<0.01999956	<0.01999956
5/11/2021		<0.01999956				
5/18/2021	<0.01999956		<0.01999956		<0.01999956	<0.01999956
5/19/2021				0.00754 (J)		

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/14/2021 12:31 PM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14	BY-AP-MW-14V	BY-AP-MW-15	BY-AP-MW-15V
3/2/2016	<0.01999956		<0.01999956		<0.01999956	
4/19/2016					<0.01999956	
4/20/2016	<0.01999956		<0.01999956			
6/8/2016	<0.01999956		<0.01999956		<0.01999956	
8/30/2016			<0.01999956			
8/31/2016	<0.01999956				<0.01999956	
10/18/2016			<0.01999956			
10/19/2016	<0.01999956				<0.01999956	
1/31/2017	<0.01999956		<0.01999956		<0.01999956	
5/2/2017			<0.01999956		<0.01999956	
5/3/2017	<0.01999956					
6/6/2017			<0.01999956		<0.01999956	
6/7/2017	<0.01999956					
1/22/2018	<0.01999956				<0.01999956	
1/23/2018			<0.01999956			
5/1/2018					<0.01999956	
5/2/2018	<0.01999956		<0.01999956			
11/27/2018			<0.01999956		0.0169 (J)	
11/28/2018	<0.01999956					
5/29/2019	<0.01999956		<0.01999956		0.0254	
7/31/2019						<0.01999956
10/1/2019	<0.01999956		<0.01999956		0.0248	<0.01999956
3/31/2020	<0.01999956		<0.01999956			
4/1/2020					0.0174 (J)	
9/1/2020	<0.01999956					<0.01999956
9/2/2020		<0.01999956	<0.01999956	<0.01999956	<0.01999956	
5/11/2021					0.00788 (J)	
5/19/2021	<0.01999956	<0.01999956				
5/25/2021			<0.01999956	<0.01999956		<0.01999956

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/14/2021 12:31 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H
3/2/2016	<0.01999956					
4/19/2016	<0.01999956					
6/8/2016	<0.01999956					
8/31/2016	<0.01999956					
10/19/2016	<0.01999956					
1/31/2017	<0.01999956					
5/2/2017	<0.01999956					
6/6/2017	<0.01999956					
1/23/2018	<0.01999956					
5/1/2018	<0.01999956					
11/27/2018	<0.01999956					
3/20/2019				<0.01999956		
5/29/2019	<0.01999956					
7/31/2019			<0.01999956			<0.01999956
10/1/2019	<0.01999956			<0.01999956		<0.01999956
10/2/2019			<0.01999956			
3/31/2020	<0.01999956					
4/1/2020			<0.01999956	<0.01999956		
9/1/2020			<0.01999956	<0.01999956	<0.01999956	<0.01999956
9/2/2020	<0.01999956	<0.01999956				
5/17/2021			<0.01999956			
5/18/2021				<0.01999956		
5/19/2021	<0.01999956	<0.01999956		<0.01999956		
5/25/2021						<0.01999956

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/14/2021 12:31 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1V	BY-AP-MW-2	BY-AP-MW-20H	BY-AP-MW-20V	BY-AP-MW-22H	BY-AP-MW-23H
3/2/2016		<0.01999956				
4/19/2016		<0.01999956				
6/8/2016		<0.01999956				
8/31/2016		<0.01999956				
10/19/2016		<0.01999956				
1/31/2017		<0.01999956				
5/2/2017		<0.01999956				
6/6/2017		<0.01999956				
1/24/2018		<0.01999956				
5/1/2018		<0.01999956				
11/27/2018		<0.01999956				
1/8/2019	0.0219					
5/29/2019		<0.01999956				
7/31/2019			<0.01999956		<0.01999956	<0.01999956
10/1/2019		<0.01999956	<0.01999956		<0.01999956	<0.01999956
10/2/2019	<0.01999956					
3/30/2020	<0.01999956					
3/31/2020		<0.01999956				
4/1/2020			<0.01999956			<0.01999956
8/31/2020		<0.01999956				
9/1/2020	<0.01999956		<0.01999956	<0.01999956	<0.01999956	<0.01999956
5/18/2021	<0.01999956	<0.01999956				
5/19/2021			<0.01999956	<0.01999956		
5/24/2021						<0.01999956
5/25/2021					<0.01999956	

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/14/2021 12:31 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-25VM	BY-AP-MW-3	BY-AP-MW-4
3/1/2016						<0.01999956
3/2/2016					<0.01999956	
4/19/2016					<0.01999956	<0.01999956
6/7/2016					<0.01999956	<0.01999956
8/30/2016						<0.01999956
8/31/2016					<0.01999956	
10/19/2016					<0.01999956	<0.01999956
1/31/2017					<0.01999956	<0.01999956
5/2/2017					<0.01999956	<0.01999956
6/6/2017					<0.01999956	<0.01999956
1/24/2018					<0.01999956	<0.01999956
5/1/2018					<0.01999956	<0.01999956
11/27/2018					<0.01999956	<0.01999956
1/8/2019		0.0183 (J)				
5/29/2019					<0.01999956	<0.01999956
10/1/2019					<0.01999956	<0.01999956
10/2/2019		<0.01999956				
3/31/2020		<0.01999956			<0.01999956	<0.01999956
9/1/2020	<0.01999956				<0.01999956	<0.01999956
9/2/2020		<0.01999956	<0.01999956	<0.01999956		
5/17/2021	<0.01999956					
5/18/2021					<0.01999956	<0.01999956
5/24/2021			<0.01999956			
5/25/2021		<0.01999956				

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-5	BY-AP-MW-5V	BY-AP-MW-6	BY-AP-MW-7	BY-AP-MW-7V	BY-AP-MW-8
3/1/2016	<0.01999956		<0.01999956	<0.01999956		<0.01999956
4/19/2016			<0.01999956			
4/20/2016	<0.01999956			<0.01999956		<0.01999956
6/7/2016	<0.01999956		<0.01999956	<0.01999956		<0.01999956
8/30/2016	<0.01999956		<0.01999956			<0.01999956
8/31/2016				<0.01999956		
10/18/2016	<0.01999956					<0.01999956
10/19/2016			<0.01999956	<0.01999956		
1/31/2017	<0.01999956		<0.01999956	<0.01999956		<0.01999956
5/3/2017	<0.01999956		<0.01999956	<0.01999956		<0.01999956
6/7/2017	<0.01999956		<0.01999956	<0.01999956		<0.01999956
1/24/2018	<0.01999956		<0.01999956	<0.01999956		<0.01999956
5/2/2018	<0.01999956		<0.01999956	0.0108 (J)		<0.01999956
11/27/2018	<0.01999956					<0.01999956
11/28/2018			<0.01999956	<0.01999956		
1/8/2019		<0.01999956				
1/9/2019					0.0662	
5/29/2019	<0.01999956		<0.01999956	<0.01999956		<0.01999956
9/30/2019				<0.01999956		<0.01999956
10/1/2019	<0.01999956		<0.01999956		<0.01999956	
10/2/2019		<0.01999956				
12/2/2019					<0.01999956	
3/30/2020				0.0102 (J)	<0.01999956	<0.01999956
3/31/2020	<0.01999956	<0.01999956	<0.01999956			
9/1/2020	<0.01999956	<0.01999956				
9/2/2020			<0.01999956	<0.01999956	<0.01999956	<0.01999956
5/11/2021						<0.01999956
5/17/2021			<0.01999956			
5/18/2021				0.0882	<0.01999956	

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/14/2021 12:31 PM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-8V	BY-AP-MW-9	BY-GSA-MW-1 (bg)	BY-GSA-MW-2 (bg)	BY-GSA-MW-3 (bg)	BY-GSA-MW-4 (bg)
2/23/2016			<0.01999956	<0.01999956	<0.01999956	<0.01999956
3/1/2016		<0.01999956				
4/19/2016			<0.01999956	<0.01999956	<0.01999956	<0.01999956
4/20/2016		<0.01999956				
6/6/2016			<0.01999956			<0.01999956
6/7/2016				<0.01999956	<0.01999956	
6/8/2016		<0.01999956				
8/30/2016			<0.01999956	<0.01999956	<0.01999956	<0.01999956
8/31/2016		<0.01999956				
10/18/2016			<0.01999956	<0.01999956	<0.01999956	<0.01999956
10/19/2016		<0.01999956				
1/31/2017			<0.01999956	<0.01999956	<0.01999956	<0.01999956
2/1/2017		<0.01999956				
5/2/2017			<0.01999956	<0.01999956	<0.01999956	<0.01999956
5/3/2017		<0.01999956				
6/6/2017			<0.01999956	<0.01999956	<0.01999956	<0.01999956
6/7/2017		<0.01999956				
1/23/2018		<0.01999956	<0.01999956	<0.01999956	<0.01999956	<0.01999956
5/1/2018				<0.01999956	<0.01999956	<0.01999956
5/2/2018		<0.01999956	<0.01999956			
11/26/2018						<0.01999956
11/27/2018			<0.01999956	<0.01999956	<0.01999956	
11/28/2018		<0.01999956				
1/9/2019	0.0217					
5/28/2019						<0.01999956
5/29/2019			<0.01999956	<0.01999956	<0.01999956	
5/30/2019		<0.01999956				
9/30/2019		<0.01999956				
10/1/2019	<0.01999956					
10/2/2019			<0.01999956	<0.01999956	<0.01999956	<0.01999956
3/30/2020	<0.01999956					
3/31/2020		<0.01999956	<0.01999956	<0.01999956	<0.01999956	<0.01999956
9/2/2020	<0.01999956	<0.01999956				
9/8/2020						<0.01999956
9/9/2020			<0.01999956	<0.01999956	<0.01999956	
5/11/2021				<0.01999956	<0.01999956	<0.01999956
5/12/2021			<0.01999956			
5/18/2021	<0.01999956	<0.01999956				

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V
3/1/2016		<0.0005		<0.0005		
3/2/2016	<0.0005				<0.0005	
4/19/2016	<0.0005					
4/20/2016		<0.0005		<0.0005	<0.0005	
6/8/2016	<0.0005	<0.0005		<0.0005	<0.0005	
8/31/2016	<0.0005	<0.0005		<0.0005	<0.0005	
10/19/2016	<0.0005	<0.0005		<0.0005	<0.0005	
1/31/2017	<0.0005					
2/1/2017		<0.0005		<0.0005	<0.0005	
5/2/2017	<0.0005					
5/3/2017		<0.0005		<0.0005	<0.0005	
6/6/2017	<0.0005					
6/7/2017		<0.0005		<0.0005	<0.0005	
1/23/2018		<0.0005		<0.0005	<0.0005	
1/24/2018	<0.0005					
5/1/2018	<0.0005					
5/2/2018		<0.0005		<0.0005	<0.0005	
11/28/2018	<0.0005	<0.0005		<0.0005	<0.0005	
1/8/2019			<0.0005			<0.0005
5/29/2019	<0.0005			<0.0005	<0.0005	
5/30/2019		<0.0005				
7/31/2019		<0.0005				
9/30/2019		<0.0005		<0.0005		
10/1/2019	<0.0005		<0.0005		<0.0005	
10/2/2019						<0.0005
3/30/2020	<0.0005					
3/31/2020		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
9/1/2020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
5/11/2021		<0.0005				
5/18/2021	<0.0005		<0.0005		<0.0005	<0.0005
5/19/2021				<0.0005		

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14	BY-AP-MW-14V	BY-AP-MW-15	BY-AP-MW-15V
3/2/2016	<0.0005		<0.0005		<0.0005	
4/19/2016					<0.0005	
4/20/2016	<0.0005		<0.0005			
6/8/2016	<0.0005		<0.0005		<0.0005	
8/30/2016			<0.0005			
8/31/2016	<0.0005				<0.0005	
10/18/2016			<0.0005			
10/19/2016	<0.0005				<0.0005	
1/31/2017	<0.0005		<0.0005		<0.0005	
5/2/2017			<0.0005		<0.0005	
5/3/2017	<0.0005					
6/6/2017			<0.0005		<0.0005	
6/7/2017	<0.0005					
1/22/2018	<0.0005				<0.0005	
1/23/2018			<0.0005			
5/1/2018					<0.0005	
5/2/2018	<0.0005		<0.0005			
11/27/2018			<0.0005		<0.0005	
11/28/2018	<0.0005					
5/29/2019	<0.0005		<0.0005		<0.0005	
7/31/2019						<0.0005
10/1/2019	<0.0005		<0.0005		<0.0005	<0.0005
3/31/2020	<0.0005		<0.0005			
4/1/2020					<0.0005	
9/1/2020	<0.0005					<0.0005
9/2/2020		<0.0005	<0.0005	<0.0005	<0.0005	
5/11/2021					<0.0005	
5/19/2021	<0.0005	<0.0005				
5/25/2021			<0.0005	<0.0005		<0.0005

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H
3/2/2016	<0.0005					
4/19/2016	<0.0005					
6/8/2016	<0.0005					
8/31/2016	<0.0005					
10/19/2016	<0.0005					
1/31/2017	<0.0005					
5/2/2017	<0.0005					
6/6/2017	<0.0005					
1/23/2018	<0.0005					
5/1/2018	<0.0005					
11/27/2018	<0.0005					
3/20/2019				<0.0005		
5/29/2019	<0.0005					
7/31/2019			<0.0005			<0.0005
10/1/2019	<0.0005			<0.0005		<0.0005
10/2/2019			<0.0005			
3/31/2020	<0.0005					
4/1/2020			<0.0005	<0.0005		
9/1/2020			<0.0005	<0.0005	<0.0005	<0.0005
9/2/2020	<0.0005	<0.0005				
5/17/2021			<0.0005			
5/18/2021				<0.0005		
5/19/2021	<0.0005	<0.0005			<0.0005	
5/25/2021						<0.0005

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1V	BY-AP-MW-2	BY-AP-MW-20H	BY-AP-MW-20V	BY-AP-MW-22H	BY-AP-MW-23H
3/2/2016		<0.0005				
4/19/2016		<0.0005				
6/8/2016		<0.0005				
8/31/2016		<0.0005				
10/19/2016		<0.0005				
1/31/2017		<0.0005				
5/2/2017		<0.0005				
6/6/2017		<0.0005				
1/24/2018		<0.0005				
5/1/2018		<0.0005				
11/27/2018		<0.0005				
1/8/2019	<0.0005					
5/29/2019		<0.0005				
7/31/2019			<0.0005		<0.0005	<0.0005
10/1/2019		<0.0005	<0.0005		<0.0005	<0.0005
10/2/2019	<0.0005					
3/30/2020	<0.0005					
3/31/2020		<0.0005				
4/1/2020			<0.0005			<0.0005
8/31/2020		<0.0005				
9/1/2020	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
5/18/2021	<0.0005	<0.0005				
5/19/2021			<0.0005	<0.0005		
5/24/2021						<0.0005
5/25/2021					<0.0005	

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-25VM	BY-AP-MW-3	BY-AP-MW-4
3/1/2016						<0.0005
3/2/2016					<0.0005	
4/19/2016					<0.0005	<0.0005
6/7/2016					<0.0005	<0.0005
8/30/2016						<0.0005
8/31/2016					<0.0005	
10/19/2016					<0.0005	<0.0005
1/31/2017					<0.0005	<0.0005
5/2/2017					<0.0005	<0.0005
6/6/2017					<0.0005	<0.0005
1/24/2018					<0.0005	<0.0005
5/1/2018					<0.0005	<0.0005
11/27/2018					<0.0005	<0.0005
1/8/2019		<0.0005				
5/29/2019					<0.0005	<0.0005
10/1/2019					<0.0005	<0.0005
10/2/2019		<0.0005				
3/31/2020		<0.0005			<0.0005	<0.0005
9/1/2020	<0.0005				<0.0005	<0.0005
9/2/2020		<0.0005	<0.0005	<0.0005		
5/17/2021	<0.0005					
5/18/2021					<0.0005	<0.0005
5/24/2021			<0.0005			
5/25/2021		<0.0005				

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-5	BY-AP-MW-5V	BY-AP-MW-6	BY-AP-MW-7	BY-AP-MW-7V	BY-AP-MW-8
3/1/2016	<0.0005		<0.0005	<0.0005		<0.0005
4/19/2016			<0.0005			
4/20/2016	<0.0005			<0.0005		<0.0005
6/7/2016	<0.0005		<0.0005	<0.0005		<0.0005
8/30/2016	<0.0005		<0.0005			<0.0005
8/31/2016				<0.0005		
10/18/2016	<0.0005					<0.0005
10/19/2016			<0.0005	<0.0005		
1/31/2017	<0.0005		<0.0005	<0.0005		<0.0005
5/3/2017	<0.0005		<0.0005	<0.0005		<0.0005
6/7/2017	<0.0005		<0.0005	<0.0005		<0.0005
1/24/2018	<0.0005		<0.0005	<0.0005		<0.0005
5/2/2018	<0.0005		<0.0005	<0.0005		<0.0005
11/27/2018	<0.0005					<0.0005
11/28/2018			<0.0005	<0.0005		
1/8/2019		<0.0005				
1/9/2019					<0.0005	
5/29/2019	<0.0005		<0.0005	<0.0005		<0.0005
9/30/2019				<0.0005		<0.0005
10/1/2019	<0.0005		<0.0005		<0.0005	
10/2/2019		<0.0005				
3/30/2020				<0.0005	<0.0005	<0.0005
3/31/2020	<0.0005	<0.0005	<0.0005			
9/1/2020	<0.0005	<0.0005				
9/2/2020			<0.0005	<0.0005	<0.0005	<0.0005
5/11/2021						<0.0005
5/17/2021			<0.0005			
5/18/2021				<0.0005	<0.0005	

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-8V	BY-AP-MW-9	BY-GSA-MW-1 (bg)	BY-GSA-MW-2 (bg)	BY-GSA-MW-3 (bg)	BY-GSA-MW-4 (bg)
2/23/2016			<0.0005	<0.0005	<0.0005	<0.0005
3/1/2016		<0.0005				
4/19/2016			<0.0005	<0.0005	<0.0005	<0.0005
4/20/2016		<0.0005				
6/6/2016			<0.0005			<0.0005
6/7/2016				<0.0005	<0.0005	
6/8/2016		<0.0005				
8/30/2016			<0.0005	<0.0005	<0.0005	<0.0005
8/31/2016		<0.0005				
10/18/2016			<0.0005	<0.0005	<0.0005	<0.0005
10/19/2016		<0.0005				
1/31/2017			<0.0005	<0.0005	<0.0005	<0.0005
2/1/2017		<0.0005				
5/2/2017			<0.0005	<0.0005	<0.0005	<0.0005
5/3/2017		<0.0005				
6/6/2017			<0.0005	<0.0005	<0.0005	<0.0005
6/7/2017		<0.0005				
1/23/2018		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
5/1/2018				<0.0005	<0.0005	<0.0005
5/2/2018		<0.0005	<0.0005			
11/26/2018						<0.0005
11/27/2018			<0.0005	<0.0005	<0.0005	
11/28/2018		<0.0005				
1/9/2019	<0.0005					
5/28/2019						<0.0005
5/29/2019			<0.0005	<0.0005	<0.0005	
5/30/2019		<0.0005				
9/30/2019		<0.0005				
10/1/2019	<0.0005					
10/2/2019			<0.0005	<0.0005	<0.0005	<0.0005
3/30/2020	<0.0005					
3/31/2020		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
9/2/2020	<0.0005	<0.0005				
9/8/2020						<0.0005
9/9/2020			<0.0005	<0.0005	<0.0005	
5/11/2021				<0.0005	<0.0005	<0.0005
5/12/2021			<0.0005			
5/18/2021	<0.0005	<0.0005				

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V
3/1/2016		<0.000203		<0.000203		
3/2/2016	<0.000203				<0.000203	
4/19/2016	<0.000203					
4/20/2016		<0.000203		<0.000203	<0.000203	
6/8/2016	<0.000203	<0.000203		<0.000203	<0.000203	
8/31/2016	<0.000203	<0.000203		<0.000203	<0.000203	
10/19/2016	<0.000203	<0.000203		<0.000203	<0.000203	
1/31/2017	<0.000203					
2/1/2017		<0.000203		<0.000203	<0.000203	
5/2/2017	<0.000203					
5/3/2017		<0.000203		<0.000203	<0.000203	
6/6/2017	<0.000203					
6/7/2017		<0.000203		<0.000203	<0.000203	
1/23/2018		<0.000203		<0.000203	<0.000203	
1/24/2018	<0.000203					
5/1/2018	<0.000203					
5/2/2018		<0.000203		<0.000203	<0.000203	
11/28/2018	<0.000203	<0.000203		<0.000203	<0.000203	
1/8/2019			0.00335 (J)			0.00303 (J)
5/29/2019	<0.000203			<0.000203	<0.000203	
5/30/2019		<0.000203				
9/30/2019		<0.000203		<0.000203		
10/1/2019	<0.000203		<0.000203		<0.000203	
10/2/2019						<0.000203
3/30/2020	<0.000203					
3/31/2020		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
9/1/2020	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
5/11/2021		<0.000203				
5/18/2021	0.000106 (J)		0.000148 (J)		0.000947	0.00106
5/19/2021				0.00652		

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14	BY-AP-MW-14V	BY-AP-MW-15	BY-AP-MW-15V
3/2/2016	<0.000203		<0.000203		0.00238 (J)	
4/19/2016					0.00203 (J)	
4/20/2016	<0.000203		<0.000203			
6/8/2016	<0.000203		<0.000203		<0.000203	
8/30/2016			<0.000203			
8/31/2016	<0.000203				<0.000203	
10/18/2016			<0.000203			
10/19/2016	<0.000203				<0.000203	
1/31/2017	<0.000203		<0.000203		<0.000203	
5/2/2017			<0.000203		0.00201 (J)	
5/3/2017	<0.000203					
6/6/2017			<0.000203		<0.000203	
6/7/2017	<0.000203					
1/22/2018	<0.000203				0.00211 (J)	
1/23/2018			<0.000203			
5/1/2018					<0.000203	
5/2/2018	<0.000203		<0.000203			
11/27/2018			<0.000203		<0.000203	
11/28/2018	<0.000203					
5/29/2019	<0.000203		<0.000203		<0.000203	
7/31/2019						<0.000203
10/1/2019	<0.000203		<0.000203		<0.000203	<0.000203
3/31/2020	<0.000203		<0.000203			
4/1/2020					<0.000203	
9/1/2020	<0.000203					<0.000203
9/2/2020		<0.000203	<0.000203	0.00229 (J)	0.00209 (J)	
5/11/2021					0.00171	
5/19/2021	0.000437	0.000642				
5/25/2021			0.000701	0.00135		0.000106 (J)

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H
3/2/2016	<0.000203					
4/19/2016	<0.000203					
6/8/2016	<0.000203					
8/31/2016	<0.000203					
10/19/2016	<0.000203					
1/31/2017	<0.000203					
5/2/2017	<0.000203					
6/6/2017	<0.000203					
1/23/2018	<0.000203					
5/1/2018	<0.000203					
11/27/2018	<0.000203					
3/20/2019					<0.000203	
5/29/2019	<0.000203					
7/31/2019			<0.000203			<0.000203
10/1/2019	<0.000203				<0.000203	<0.000203
10/2/2019			<0.000203			
3/31/2020	<0.000203					
4/1/2020			<0.000203		<0.000203	
9/1/2020			<0.000203	<0.000203	<0.000203	<0.000203
9/2/2020	<0.000203	<0.000203				
5/17/2021			0.000469			
5/18/2021				0.000571		
5/19/2021	0.000136 (J)	<0.000203			0.00025	
5/25/2021						0.000124 (J)

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1V	BY-AP-MW-2	BY-AP-MW-20H	BY-AP-MW-20V	BY-AP-MW-22H	BY-AP-MW-23H
3/2/2016		<0.000203				
4/19/2016		<0.000203				
6/8/2016		<0.000203				
8/31/2016		<0.000203				
10/19/2016		<0.000203				
1/31/2017		<0.000203				
5/2/2017		<0.000203				
6/6/2017		<0.000203				
1/24/2018		<0.000203				
5/1/2018		<0.000203				
11/27/2018		<0.000203				
1/8/2019	<0.000203					
5/29/2019		<0.000203				
7/31/2019			<0.000203		0.00426 (J)	<0.000203
10/1/2019		<0.000203	<0.000203		<0.000203	<0.000203
10/2/2019	<0.000203					
3/30/2020	<0.000203					
3/31/2020		<0.000203				
4/1/2020			<0.000203			<0.000203
8/31/2020		<0.000203				
9/1/2020	<0.000203		<0.000203	<0.000203	<0.000203	<0.000203
5/18/2021	0.00018 (J)	<0.000203				
5/19/2021			0.000503	0.00155		
5/24/2021						0.00069
5/25/2021					0.00137	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-25VM	BY-AP-MW-3	BY-AP-MW-4
3/1/2016						<0.000203
3/2/2016					<0.000203	
4/19/2016					<0.000203	<0.000203
6/7/2016					<0.000203	<0.000203
8/30/2016						<0.000203
8/31/2016					<0.000203	
10/19/2016					<0.000203	<0.000203
1/31/2017					<0.000203	<0.000203
5/2/2017					<0.000203	<0.000203
6/6/2017					<0.000203	<0.000203
1/24/2018					<0.000203	<0.000203
5/1/2018					<0.000203	<0.000203
11/27/2018					<0.000203	<0.000203
1/8/2019		0.00399 (J)				
5/29/2019					<0.000203	<0.000203
10/1/2019					<0.000203	<0.000203
10/2/2019		<0.000203				
3/31/2020		<0.000203			<0.000203	<0.000203
9/1/2020	<0.000203				<0.000203	<0.000203
9/2/2020		<0.000203	<0.000203	<0.000203		
5/17/2021	0.00147					
5/18/2021					<0.000203	<0.000203
5/24/2021			0.000102 (J)			
5/25/2021		0.000869				

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-5	BY-AP-MW-5V	BY-AP-MW-6	BY-AP-MW-7	BY-AP-MW-7V	BY-AP-MW-8
3/1/2016	<0.000203		<0.000203	<0.000203		<0.000203
4/19/2016			<0.000203			
4/20/2016	<0.000203			<0.000203		<0.000203
6/7/2016	<0.000203		<0.000203	<0.000203		<0.000203
8/30/2016	<0.000203		<0.000203			<0.000203
8/31/2016				<0.000203		
10/18/2016	<0.000203					<0.000203
10/19/2016			<0.000203	<0.000203		
1/31/2017	<0.000203		<0.000203	<0.000203		<0.000203
5/3/2017	<0.000203		<0.000203	<0.000203		<0.000203
6/7/2017	<0.000203		<0.000203	<0.000203		<0.000203
1/24/2018	<0.000203		<0.000203	<0.000203		<0.000203
5/2/2018	<0.000203		<0.000203	<0.000203		<0.000203
11/27/2018	<0.000203					<0.000203
11/28/2018			<0.000203	<0.000203		
1/8/2019		<0.000203				
1/9/2019					0.00511 (J)	
5/29/2019	<0.000203		<0.000203	<0.000203		<0.000203
9/30/2019				<0.000203		<0.000203
10/1/2019	<0.000203		<0.000203		<0.000203	
10/2/2019		<0.000203				
3/30/2020				<0.000203	<0.000203	<0.000203
3/31/2020	<0.000203	<0.000203	<0.000203			
9/1/2020	<0.000203	<0.000203				
9/2/2020			<0.000203	<0.000203	<0.000203	<0.000203
5/11/2021						0.000321
5/17/2021			0.000117 (J)			
5/18/2021				0.000214	0.00021	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-8V	BY-AP-MW-9	BY-GSA-MW-1 (bg)	BY-GSA-MW-2 (bg)	BY-GSA-MW-3 (bg)	BY-GSA-MW-4 (bg)
2/23/2016			<0.000203	<0.000203	<0.000203	<0.000203
3/1/2016		<0.000203				
4/19/2016			<0.000203	<0.000203	<0.000203	<0.000203
4/20/2016		<0.000203				
6/6/2016			<0.000203			<0.000203
6/7/2016				<0.000203	<0.000203	
6/8/2016		<0.000203				
8/30/2016			<0.000203	<0.000203	<0.000203	<0.000203
8/31/2016		<0.000203				
10/18/2016			<0.000203	<0.000203	<0.000203	<0.000203
10/19/2016		<0.000203				
1/31/2017			<0.000203	<0.000203	<0.000203	<0.000203
2/1/2017		<0.000203				
5/2/2017			<0.000203	<0.000203	<0.000203	<0.000203
5/3/2017		<0.000203				
6/6/2017			<0.000203	<0.000203	<0.000203	<0.000203
6/7/2017		<0.000203				
1/23/2018		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
5/1/2018				<0.000203	<0.000203	<0.000203
5/2/2018		<0.000203	<0.000203			
11/26/2018						<0.000203
11/27/2018			<0.000203	<0.000203	<0.000203	
11/28/2018		<0.000203				
1/9/2019	0.00243 (J)					
5/28/2019						<0.000203
5/29/2019			<0.000203	<0.000203	<0.000203	
5/30/2019		<0.000203				
9/30/2019		<0.000203				
10/1/2019	<0.000203					
10/2/2019			<0.000203	<0.000203	<0.000203	<0.000203
3/30/2020	<0.000203					
3/31/2020		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
9/2/2020	<0.000203	<0.000203				
9/8/2020						<0.000203
9/9/2020			<0.000203	<0.000203	<0.000203	
5/11/2021				<0.000203	<0.000203	<0.000203
5/12/2021			<0.000203			
5/18/2021	0.000363	0.00022				

Time Series

Constituent: pH, field (SU) Analysis Run 7/14/2021 12:31 PM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V
3/1/2016		6.33		6.34		
3/2/2016	5.78				6.16	
4/19/2016	5.8					
4/20/2016		6.31		6.31	6.17	
6/8/2016	5.83	6.34		6.33	6.25	
8/31/2016	5.85	6.35		6.29	6.23	
10/19/2016	5.87	6.35		6.26	6.2	
1/31/2017	5.83					
2/1/2017		6.27		6.22	6.08	
3/21/2017	5.83					
3/22/2017		6.29		6.22	6.12	
5/2/2017	5.73					
5/3/2017		6.23		6.15	6.12	
6/6/2017	5.83					
6/7/2017		6.27		6.21	6.13	
9/13/2017	5.91			6.26	6.19	
9/14/2017		6.27				
1/23/2018		6.32		6.28	6.17	
1/24/2018	5.9					
5/1/2018	5.83					
5/2/2018		6.36		6.33	6.15	
8/28/2018	5.78	6.31				
8/29/2018				6.3	6.19	
11/28/2018	5.82	6.32		6.28	6.11	
1/8/2019			6.5			6.48
5/29/2019	5.82			6.24	6.13	
5/30/2019		6.23				
9/30/2019		6.11		5.85		
10/1/2019	5.47		6.05		6	
10/2/2019						5.9
3/30/2020	5.79					
3/31/2020		6.37	6.38	6.26	6.21	6.33
9/1/2020	5.89	6.33	6.34	5.87	6.19	6.2
5/11/2021		6.4				
5/18/2021	5.86		6.34		5.58	5.92
5/19/2021				6.33		

Time Series

Constituent: pH, field (SU) Analysis Run 7/14/2021 12:31 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14	BY-AP-MW-14V	BY-AP-MW-15	BY-AP-MW-15V
3/2/2016	6.1		6.08		6.61	
4/19/2016					6.75	
4/20/2016	6.14		6.04			
6/8/2016	6.11		6.13		6.63	
8/30/2016			6.08			
8/31/2016	6.1				6.71	
10/18/2016			6.13			
10/19/2016	6.1				6.66	
1/31/2017	6.07		6.06		6.73	
3/21/2017					6.62	
3/22/2017	6.07		6.09			
5/2/2017			5.94		6.49	
5/3/2017	6.1					
6/6/2017			6.1		6.7	
6/7/2017	6.07					
9/13/2017	6.12		6.11		6.66	
1/22/2018	6.12				6.73	
1/23/2018			6.12			
5/1/2018					6.62	
5/2/2018	6.13		6.13			
8/29/2018	6.1		6.14		6.68	
11/27/2018			6.07		6.58	
11/28/2018	6.04					
5/29/2019	6.01		6.07		6.63	
7/31/2019						5.37
10/1/2019	6.02		6.01		6.2	5.68
3/31/2020	5.98		5.76			
4/1/2020					6.72	
9/1/2020	5.82					5.91
9/2/2020		6.23	5.8	7.02	6.57	
5/11/2021					6.76	
5/19/2021	5.79	6.2				
5/25/2021			5.82	7.2		5.6

Time Series

Constituent: pH, field (SU) Analysis Run 7/14/2021 12:31 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H
3/2/2016	5.79					
4/19/2016	5.78					
6/8/2016	5.8					
8/31/2016	5.83					
10/19/2016	5.81					
1/31/2017	5.84					
3/21/2017	5.79					
5/2/2017	5.68					
6/6/2017	5.8					
9/13/2017	5.86					
1/23/2018	5.86					
5/1/2018	5.85					
8/29/2018	5.87					
11/27/2018	5.76					
3/20/2019				6.19		
5/29/2019	5.76					
7/31/2019			6.64			6.21
10/1/2019	5.23			6.26		6.33
10/2/2019			6.58			
3/31/2020	5.75					
4/1/2020			6.52		6.48	
9/1/2020			6.56	6.49	6.15	6.31
9/2/2020	5.47	5.23				
5/17/2021			6.35			
5/18/2021				6.55		
5/19/2021	5.8	5.24			6.23	
5/25/2021						6.1

Time Series

Constituent: pH, field (SU) Analysis Run 7/14/2021 12:31 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1V	BY-AP-MW-2	BY-AP-MW-20H	BY-AP-MW-20V	BY-AP-MW-22H	BY-AP-MW-23H
3/2/2016		6.08				
4/19/2016		5.92				
6/8/2016		5.9				
8/31/2016		5.87				
10/19/2016		5.82				
1/31/2017		5.87				
3/21/2017		5.85				
5/2/2017		5.61				
6/6/2017		5.82				
9/12/2017		5.61				
1/24/2018		5.83				
5/1/2018		5.8				
8/28/2018		5.56				
11/27/2018		5.71				
1/8/2019	6.38					
5/29/2019		5.7				
7/31/2019			6.22		6.54	6.08
10/1/2019		4.97	6.24		6.6	6.03
10/2/2019	5.27					
3/30/2020	5.65					
3/31/2020		5.71				
4/1/2020			6.45			6.44
8/31/2020		5.57				
9/1/2020	5.62		6.15	6.03	6.48	6.14
5/18/2021	5.55	5.83				
5/19/2021			6.17	6.44		
5/24/2021						6.19
5/25/2021					6.44	

Time Series

Constituent: pH, field (SU) Analysis Run 7/14/2021 12:31 PM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-25VM	BY-AP-MW-3	BY-AP-MW-4
3/1/2016						5.19
3/2/2016					5.14	
4/19/2016					5.06	5.06
6/7/2016					5.13	4.7
8/30/2016						4.77
8/31/2016					5.11	
10/19/2016					5.05	4.67
1/31/2017					5.14	4.42
3/21/2017					5.13	4.45
5/2/2017					4.85	4.46
6/6/2017					5.15	4.89
9/12/2017					4.96	4.71
1/24/2018					5.22	5.03
5/1/2018					5.11	4.44
8/28/2018					4.92	4.85
11/27/2018					5.05	4.78
1/8/2019		6.51				
5/29/2019					5.05	4.65
10/1/2019					4.37	4.28
10/2/2019		6.21				
3/31/2020		6.23			5.08	4.69
9/1/2020	7.98				4.24	4.23
9/2/2020		6.01	5.39	5.32		
5/17/2021	7.87					
5/18/2021					4.93	4.17
5/24/2021			4.12			
5/25/2021		6.16				

Time Series

Constituent: pH, field (SU) Analysis Run 7/14/2021 12:31 PM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-5	BY-AP-MW-5V	BY-AP-MW-6	BY-AP-MW-7	BY-AP-MW-7V	BY-AP-MW-8
3/1/2016	5.99		5.59	6.36		6.21
4/19/2016			5.55			
4/20/2016	5.96			6.31		6.22
6/7/2016	6.03		5.43	6.3		6.26
8/30/2016	6		5.39			6.21
8/31/2016				6.31		
10/18/2016	5.99					6.21
10/19/2016			5.31	6.23		
1/31/2017	5.96		5.26	6.26		6.17
3/22/2017	6.01		5.32	6.32		6.22
5/3/2017	5.99		5.35	6.29		6.22
6/7/2017	6.01		5.32	6.27		6.21
9/14/2017	6		5.29	6.25		6.18
1/24/2018	5.98		5.32	6.35		6.16
5/2/2018	5.99		5.33	6.29		6.17
8/29/2018	6.03		5.41			6.21
11/27/2018	6.01					6.18
11/28/2018			5.46	6.33		
1/8/2019		6.07				
1/9/2019				7.12		
5/29/2019	5.93		5.31	6.18		6.11
9/30/2019				6.36		6.19
10/1/2019	5.47		4.7		6.67	
10/2/2019		5.9				
3/30/2020				6.32	6.69	6.2
3/31/2020	6.01	6.05	5.22			
9/1/2020	5.93	5.7				
9/2/2020			5.16	6.25	6.49	5.89
5/11/2021						6.25
5/17/2021			5.21			
5/18/2021				6.4	6.53	

Time Series

Constituent: pH, field (SU) Analysis Run 7/14/2021 12:31 PM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-8V	BY-AP-MW-9	BY-GSA-MW-1 (bg)	BY-GSA-MW-2 (bg)	BY-GSA-MW-3 (bg)	BY-GSA-MW-4 (bg)
2/23/2016			4.62	4.79	4.96	4.74
3/1/2016		6.26				
4/19/2016			4.74	4.84	4.94	4.86
4/20/2016		6.26				
6/6/2016			4.65			4.88
6/7/2016				4.81	4.96	
6/8/2016		6.25				
8/30/2016			4.64	4.76	4.92	4.91
8/31/2016		6.29				
10/18/2016			4.74	4.84	4.98	4.95
10/19/2016		6.22				
1/31/2017			4.54	4.6	4.74	4.71
2/1/2017		6.24				
3/20/2017			4.67	4.71	4.9	4.83
3/22/2017		6.28				
5/2/2017			4.79	4.8	4.98	4.93
5/3/2017		6.17				
6/6/2017			4.76	4.72	4.94	4.9
6/7/2017		6.24				
9/12/2017						4.82
9/13/2017			4.81	4.71	4.93	
9/14/2017		6.24				
1/23/2018		6.3	4.79	4.67	4.91	4.85
5/1/2018				4.61	4.87	4.8
5/2/2018		6.31	4.62			
8/28/2018		6.28				
11/26/2018						4.88
11/27/2018			4.73	4.72	4.94	
11/28/2018		6.32				
1/9/2019	6.38					
5/28/2019						4.73
5/29/2019			4.65	4.58	4.8	
5/30/2019		6.14				
9/30/2019		6.07				
10/1/2019	6.16					
10/2/2019			4.57	4.43	4.52	4.67
3/30/2020	6.2					
3/31/2020		6.31	4.64	4.6	4.4	4.51
9/2/2020	5.79	5.97				
9/8/2020						4.75
9/9/2020			4.65	4.67	4.76	
5/11/2021				4.29	4.53	4.67
5/12/2021			4.74			
5/18/2021	6.33	6.3				

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V
3/1/2016		<0.001015		<0.001015		
3/2/2016	<0.001015				<0.001015	
4/19/2016	<0.001015					
4/20/2016		<0.001015		<0.001015	<0.001015	
6/8/2016	<0.001015	<0.001015		<0.001015	<0.001015	
8/31/2016	<0.001015	<0.001015		<0.001015	<0.001015	
10/19/2016	<0.001015	<0.001015		<0.001015	<0.001015	
1/31/2017	<0.001015					
2/1/2017		<0.001015		<0.001015	<0.001015	
5/2/2017	<0.001015					
5/3/2017		<0.001015		<0.001015	<0.001015	
6/6/2017	<0.001015					
6/7/2017		<0.001015		<0.001015	<0.001015	
1/23/2018		<0.001015		<0.001015	<0.001015	
1/24/2018	<0.001015					
5/1/2018	<0.001015					
5/2/2018		<0.001015		<0.001015	<0.001015	
11/28/2018	<0.001015	<0.001015		<0.001015	<0.001015	
1/8/2019			<0.001015			<0.001015
5/29/2019	<0.001015			<0.001015	<0.001015	
5/30/2019		<0.001015				
9/30/2019		<0.001015		<0.001015		
10/1/2019	<0.001015		<0.001015		<0.001015	
10/2/2019						<0.001015
3/30/2020	<0.001015					
3/31/2020		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
9/1/2020	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
5/11/2021		<0.001015				
5/18/2021	<0.001015		<0.001015		<0.001015	<0.001015
5/19/2021				<0.001015		

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14	BY-AP-MW-14V	BY-AP-MW-15	BY-AP-MW-15V
3/2/2016	<0.001015		<0.001015		<0.001015	
4/19/2016					<0.001015	
4/20/2016	<0.001015		<0.001015			
6/8/2016	<0.001015		<0.001015		<0.001015	
8/30/2016			<0.001015			
8/31/2016	<0.001015				<0.001015	
10/18/2016			<0.001015			
10/19/2016	<0.001015				<0.001015	
1/31/2017	<0.001015		<0.001015		<0.001015	
5/2/2017			<0.001015		<0.001015	
5/3/2017	<0.001015					
6/6/2017			<0.001015		<0.001015	
6/7/2017	<0.001015					
1/22/2018	<0.001015				<0.001015	
1/23/2018			<0.001015			
5/1/2018					<0.001015	
5/2/2018	<0.001015		<0.001015			
11/27/2018			<0.001015		<0.001015	
11/28/2018	<0.001015					
5/29/2019	<0.001015		<0.001015		<0.001015	
7/31/2019						<0.001015
10/1/2019	<0.001015		<0.001015		<0.001015	<0.001015
3/31/2020	<0.001015		<0.001015			
4/1/2020					<0.001015	
9/1/2020	<0.001015					<0.001015
9/2/2020		<0.001015	<0.001015	<0.001015	<0.001015	
5/11/2021					<0.001015	
5/19/2021	<0.001015	<0.001015				
5/25/2021			<0.001015	<0.001015		<0.001015

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H
3/2/2016	<0.001015					
4/19/2016	<0.001015					
6/8/2016	<0.001015					
8/31/2016	<0.001015					
10/19/2016	<0.001015					
1/31/2017	<0.001015					
5/2/2017	<0.001015					
6/6/2017	<0.001015					
1/23/2018	<0.001015					
5/1/2018	<0.001015					
11/27/2018	<0.001015					
3/20/2019					<0.001015	
5/29/2019	<0.001015					
7/31/2019			<0.001015			<0.001015
10/1/2019	<0.001015				<0.001015	<0.001015
10/2/2019			<0.001015			
3/31/2020	<0.001015					
4/1/2020			<0.001015		<0.001015	
9/1/2020			<0.001015	<0.001015	<0.001015	<0.001015
9/2/2020	<0.001015	<0.001015				
5/17/2021			<0.001015			
5/18/2021				<0.001015		
5/19/2021	<0.001015	<0.001015			<0.001015	
5/25/2021						<0.001015

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1V	BY-AP-MW-2	BY-AP-MW-20H	BY-AP-MW-20V	BY-AP-MW-22H	BY-AP-MW-23H
3/2/2016		<0.001015				
4/19/2016		<0.001015				
6/8/2016		<0.001015				
8/31/2016		<0.001015				
10/19/2016		<0.001015				
1/31/2017		<0.001015				
5/2/2017		<0.001015				
6/6/2017		<0.001015				
1/24/2018		<0.001015				
5/1/2018		<0.001015				
11/27/2018		<0.001015				
1/8/2019	<0.001015					
5/29/2019		<0.001015				
7/31/2019			<0.001015		<0.001015	<0.001015
10/1/2019		<0.001015	<0.001015		<0.001015	<0.001015
10/2/2019	<0.001015					
3/30/2020	<0.001015					
3/31/2020		<0.001015				
4/1/2020			<0.001015			<0.001015
8/31/2020		<0.001015				
9/1/2020	<0.001015		<0.001015	<0.001015	<0.001015	<0.001015
5/18/2021	<0.001015	<0.001015				
5/19/2021			<0.001015	<0.001015		
5/24/2021						<0.001015
5/25/2021					<0.001015	

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-25VM	BY-AP-MW-3	BY-AP-MW-4
3/1/2016						<0.001015
3/2/2016					<0.001015	
4/19/2016					<0.001015	<0.001015
6/7/2016					<0.001015	<0.001015
8/30/2016						<0.001015
8/31/2016					<0.001015	
10/19/2016					<0.001015	<0.001015
1/31/2017					<0.001015	<0.001015
5/2/2017					<0.001015	<0.001015
6/6/2017					<0.001015	<0.001015
1/24/2018					<0.001015	<0.001015
5/1/2018					<0.001015	<0.001015
11/27/2018					<0.001015	<0.001015
1/8/2019		<0.001015				
5/29/2019					<0.001015	<0.001015
10/1/2019					<0.001015	<0.001015
10/2/2019		<0.001015				
3/31/2020		<0.001015			<0.001015	<0.001015
9/1/2020	<0.001015				<0.001015	<0.001015
9/2/2020		<0.001015	<0.001015	<0.001015		
5/17/2021	<0.001015					
5/18/2021					<0.001015	<0.001015
5/24/2021			<0.001015			
5/25/2021		<0.001015				

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-5	BY-AP-MW-5V	BY-AP-MW-6	BY-AP-MW-7	BY-AP-MW-7V	BY-AP-MW-8
3/1/2016	<0.001015		<0.001015	<0.001015		<0.001015
4/19/2016			<0.001015			
4/20/2016	<0.001015			<0.001015		<0.001015
6/7/2016	<0.001015		<0.001015	<0.001015		<0.001015
8/30/2016	<0.001015		<0.001015			<0.001015
8/31/2016				<0.001015		
10/18/2016	<0.001015					<0.001015
10/19/2016			<0.001015	<0.001015		
1/31/2017	<0.001015		<0.001015	<0.001015		<0.001015
5/3/2017	<0.001015		<0.001015	<0.001015		<0.001015
6/7/2017	<0.001015		<0.001015	<0.001015		<0.001015
1/24/2018	<0.001015		<0.001015	<0.001015		<0.001015
5/2/2018	<0.001015		<0.001015	<0.001015		<0.001015
11/27/2018	<0.001015					<0.001015
11/28/2018			<0.001015	<0.001015		
1/8/2019		<0.001015				
1/9/2019					<0.001015	
5/29/2019	<0.001015		<0.001015	<0.001015		<0.001015
9/30/2019				<0.001015		<0.001015
10/1/2019	<0.001015		<0.001015		<0.001015	
10/2/2019		<0.001015				
3/30/2020				<0.001015	<0.001015	<0.001015
3/31/2020	<0.001015	<0.001015	<0.001015			
9/1/2020	<0.001015	<0.001015				
9/2/2020			<0.001015	<0.001015	<0.001015	<0.001015
5/11/2021						<0.001015
5/17/2021			<0.001015			
5/18/2021				<0.001015	<0.001015	

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-8V	BY-AP-MW-9	BY-GSA-MW-1 (bg)	BY-GSA-MW-2 (bg)	BY-GSA-MW-3 (bg)	BY-GSA-MW-4 (bg)
2/23/2016			<0.001015	<0.001015	<0.001015	<0.001015
3/1/2016		<0.001015				
4/19/2016			<0.001015	<0.001015	<0.001015	<0.001015
4/20/2016		<0.001015				
6/6/2016			<0.001015			<0.001015
6/7/2016				<0.001015	<0.001015	
6/8/2016		<0.001015				
8/30/2016			<0.001015	<0.001015	<0.001015	<0.001015
8/31/2016		<0.001015				
10/18/2016			<0.001015	<0.001015	<0.001015	<0.001015
10/19/2016		<0.001015				
1/31/2017			<0.001015	<0.001015	<0.001015	<0.001015
2/1/2017		<0.001015				
5/2/2017			<0.001015	<0.001015	<0.001015	<0.001015
5/3/2017		<0.001015				
6/6/2017			<0.001015	<0.001015	<0.001015	<0.001015
6/7/2017		<0.001015				
1/23/2018		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
5/1/2018				<0.001015	<0.001015	<0.001015
5/2/2018		<0.001015	<0.001015			
11/26/2018						<0.001015
11/27/2018			<0.001015	<0.001015	<0.001015	
11/28/2018		<0.001015				
1/9/2019	<0.001015					
5/28/2019						<0.001015
5/29/2019			<0.001015	<0.001015	<0.001015	
5/30/2019		<0.001015				
9/30/2019		<0.001015				
10/1/2019	<0.001015					
10/2/2019			<0.001015	<0.001015	<0.001015	<0.001015
3/30/2020	<0.001015					
3/31/2020		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
9/2/2020	<0.001015	<0.001015				
9/8/2020						<0.001015
9/9/2020			<0.001015	<0.001015	<0.001015	
5/11/2021				0.000602 (J)	<0.001015	<0.001015
5/12/2021			<0.001015			
5/18/2021	<0.001015	<0.001015				

Time Series

Constituent: Sulfate (mg/L) Analysis Run 7/14/2021 12:31 PM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V
3/1/2016		0.34 (J)		1.02		
3/2/2016	0.31 (J)				<1	
4/19/2016	0.335 (J)					
4/20/2016		<1		1.1	<1	
6/8/2016	0.556 (J)	0.538 (J)		0.701 (J)	0.511 (J)	
8/31/2016	<1	<1		<1	<1	
10/19/2016	<1	<1		<1	<1	
3/21/2017	<1					
3/22/2017		<1		2.1 (J)	<1	
5/2/2017	6					
5/3/2017		4.1 (J)		3.6 (J)	2.1 (J)	
6/6/2017	<1					
6/7/2017		<1		<1	<1	
9/13/2017	4.7 (J)			<1	<1	
9/14/2017		<1				
5/1/2018	<1					
5/2/2018		<1		<1	<1	
8/28/2018	<1	<1				
8/29/2018				2.3 (J)	<1	
11/28/2018	4.1 (J)	<1		<1	<50 (o)	
1/8/2019			93.7			10.3
5/29/2019	5.75			24.1	7.04	
5/30/2019		3.76				
9/30/2019		2.77		37.4		
10/1/2019	7.82		5.19		35.3	
10/2/2019						7.18
3/30/2020	28.4					
3/31/2020		20.1	20.3	57.5	35.8	61.1
9/1/2020	23.1	15.6	30.1	42.8	32.1	47.5
5/11/2021		13.2				
5/18/2021	16.5		24.9		25.1	32.8
5/19/2021				16.5		

Time Series

Constituent: Sulfate (mg/L) Analysis Run 7/14/2021 12:31 PM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14	BY-AP-MW-14V	BY-AP-MW-15	BY-AP-MW-15V
3/2/2016	<1		<1		<1	
4/19/2016					<1	
4/20/2016	<1		<1			
6/8/2016	0.496 (J)		0.514 (J)		0.489 (J)	
8/30/2016			<1			
8/31/2016	<1				<1	
10/18/2016			<1			
10/19/2016	<1				<1	
3/21/2017					<1	
3/22/2017	6.9		<1			
5/2/2017			1.8 (J)		<1	
5/3/2017	6.6					
6/6/2017			<1		<1	
6/7/2017	6					
9/13/2017	2.2 (J)		<1		<1	
5/1/2018					<1	
5/2/2018	4.1 (J)		1.6 (J)			
8/29/2018	<1		<1		6.2	
11/27/2018			<1		<1	
11/28/2018	4.9 (J)					
5/29/2019	49.5		67.6		3.27	
7/31/2019						2.65
10/1/2019	47.7		61.6		1.72	0.854 (J)
3/31/2020	23.2		34.7			
4/1/2020					7.5	
9/1/2020	14.2					2.21
9/2/2020		30.6	18.5	63.6	7.61	
5/11/2021					7.54	
5/19/2021	50.4	39.7				
5/25/2021			59.2	39.5		1.19

Time Series

Constituent: Sulfate (mg/L) Analysis Run 7/14/2021 12:31 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H
3/2/2016	<1					
4/19/2016	<1					
6/8/2016	0.514 (J)					
8/31/2016	<1					
10/19/2016	<1					
3/21/2017	<1					
5/2/2017	<1					
6/6/2017	<1					
9/13/2017	2.6 (J)					
5/1/2018	<1					
8/29/2018	3.9 (J)					
11/27/2018	<1					
3/20/2019				12.8		
5/29/2019	6.72					
7/31/2019			23			11.4
10/1/2019	3.4			8.49		5.9
10/2/2019			10.6			
3/31/2020	17.5					
4/1/2020			19.4		24.2	
9/1/2020			7.61	26.6	30.6	16.9
9/2/2020	13.3	40				
5/17/2021			10.2			
5/18/2021				17.4		
5/19/2021	3.11	40.9			7.48	
5/25/2021						26.6

Time Series

Constituent: Sulfate (mg/L) Analysis Run 7/14/2021 12:31 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1V	BY-AP-MW-2	BY-AP-MW-20H	BY-AP-MW-20V	BY-AP-MW-22H	BY-AP-MW-23H
3/2/2016		3.3				
4/19/2016		2.68				
6/8/2016		1.1				
8/31/2016		<1				
10/19/2016		<1				
3/21/2017		<1				
5/2/2017		<1				
6/6/2017		<1				
9/12/2017		<1				
5/1/2018		<1				
8/28/2018		<1				
11/27/2018		<1				
1/8/2019	20.9					
5/29/2019		0.885 (J)				
7/31/2019			83.2		171	18.4
10/1/2019		<1	28.9		17.2	4.89
10/2/2019	10.5					
3/30/2020	11.1					
3/31/2020		1.69				
4/1/2020			18.7			18.1
8/31/2020		0.576 (J)				
9/1/2020	13		43.5	38.3	93.2	24.5
5/18/2021	16	<1				
5/19/2021			59.5	1.93		
5/24/2021						3.99
5/25/2021					72.3	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 7/14/2021 12:31 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-25VM	BY-AP-MW-3	BY-AP-MW-4
3/1/2016						2.58
3/2/2016					0.79 (J)	
4/19/2016					0.674 (J)	2.3
6/7/2016					1	2.58
8/30/2016						2.81
8/31/2016					0.702 (J)	
10/19/2016					0.739 (J)	5.06
3/21/2017					<1	3.4 (J)
5/2/2017					<1	2.7 (J)
6/6/2017					<1	1.5 (J)
9/12/2017					<1	1.9 (J)
5/1/2018					<1	1.4 (J)
8/28/2018					<1	<1
11/27/2018					<1	2.3 (J)
1/8/2019		31.2				
5/29/2019					0.747 (J)	2.92
10/1/2019					0.61 (J)	2.09
10/2/2019		92.3				
3/31/2020		84.5			1.02	4.12
9/1/2020	9.25				0.705 (J)	1.83
9/2/2020		59.7	4.39	2.26		
5/17/2021	6.92					
5/18/2021					0.883 (J)	4.43
5/24/2021			4.94			
5/25/2021		17				

Time Series

Constituent: Sulfate (mg/L) Analysis Run 7/14/2021 12:31 PM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-5	BY-AP-MW-5V	BY-AP-MW-6	BY-AP-MW-7	BY-AP-MW-7V	BY-AP-MW-8
3/1/2016	<1		0.36 (J)	0.3 (J)		<1
4/19/2016			0.435 (J)			
4/20/2016	<1			0.514 (J)		<1
6/7/2016	0.583 (J)		1.22	0.971 (J)		0.504 (J)
8/30/2016	<1		1.08			<1
8/31/2016				0.445 (J)		
10/18/2016	<1					<1
10/19/2016			1.01	0.366 (J)		
3/22/2017	<1		<1	<1		<1
5/3/2017	<1		1.4 (J)	<1		2.7 (J)
6/7/2017	<1		1.5 (J)	<1		<1
9/14/2017	<1		1.8 (J)	<1		<1
5/2/2018	<1		<1	<1		<1
8/29/2018	1.6 (J)		<1			<1
11/27/2018	2.7 (J)					<1
11/28/2018			<1	<1		
1/8/2019		1.75				
1/9/2019					3.69	
5/29/2019	5.51		1.17	2.77		6.01
9/30/2019				2.51		5.29
10/1/2019	7.4		1.04		2	
10/2/2019		5.8				
3/30/2020				4.78	9.65	33.1
3/31/2020	23.7	0.98 (J)	1.21			
9/1/2020	11	1.47				
9/2/2020			1.02	3.59	6.7	15.8
5/11/2021						35.4
5/17/2021			0.981 (J)			
5/18/2021				4.6	5.53	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 7/14/2021 12:31 PM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-8V	BY-AP-MW-9	BY-GSA-MW-1 (bg)	BY-GSA-MW-2 (bg)	BY-GSA-MW-3 (bg)	BY-GSA-MW-4 (bg)
2/23/2016			8.59	7.2	7.44	7.04
3/1/2016		<1				
4/19/2016			8.27	7.22	7.66	6.74
4/20/2016		<1				
6/6/2016			8.66			7.04
6/7/2016				7.92	8.16	
6/8/2016		0.51 (J)				
8/30/2016			9.74	8.17	8.43	7.57
8/31/2016		<1				
10/18/2016			10.2	7.99	8.47	6.62
10/19/2016		<1				
3/20/2017			8.3	6.1	7.4	7
3/22/2017		<1				
5/2/2017			6.6	5	6.3	5.6
5/3/2017		2.7 (J)				
6/6/2017			7.6	5.3	7.1	6.6
6/7/2017		<1				
9/12/2017						7.2
9/13/2017			8.4	4.9 (J)	7.3	
9/14/2017		<1				
5/1/2018				4.2 (J)	6.9	5.9
5/2/2018		<1	5.9			
8/28/2018		<1				
11/26/2018						5.1
11/27/2018			22		6.5	
11/28/2018		1.4 (J)				
1/9/2019	1.74					
5/28/2019						7.1
5/29/2019			23.3	5.94	7.81	
5/30/2019		5.91				
9/30/2019		3.77				
10/1/2019	7					
10/2/2019			17.5	6.04	7.62	6.88
3/30/2020	75.8					
3/31/2020		43.5	24.3	6.83	7.98	10.8
9/2/2020	24	21.9				
9/8/2020						6.52
9/9/2020			16.5	6.08	7.13	
5/11/2021				7.92	7.73	6.8
5/12/2021			16.3			
5/18/2021	19.6	27.7				

Time Series

Constituent: TDS (mg/L) Analysis Run 7/14/2021 12:31 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V
3/1/2016		326		395		
3/2/2016	426				351	
4/19/2016	442					
4/20/2016		366		376	353	
6/8/2016	461	314		324	330	
8/31/2016	456	368		367	354	
10/19/2016	444	381		367	354	
1/31/2017	422					
2/1/2017		342		391	360	
5/2/2017	442					
5/3/2017		369		373	341	
6/6/2017	433					
6/7/2017		340		367	337	
9/13/2017	456			378	359	
9/14/2017		391				
5/1/2018	416					
5/2/2018		343		330	310	
8/28/2018	420	375				
8/29/2018				352	307	
11/28/2018	408	378		357	336	
1/8/2019			462			348
5/29/2019	403			367	321	
5/30/2019		377				
9/30/2019		361		399		
10/1/2019	430		393		344	
10/2/2019						321
3/30/2020	419					
3/31/2020		387	413	393	331	328
9/1/2020	454	392	403	399	356	338
5/11/2021		391				
5/18/2021	450		401		332	329
5/19/2021				422		

Time Series

Constituent: TDS (mg/L) Analysis Run 7/14/2021 12:31 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14	BY-AP-MW-14V	BY-AP-MW-15	BY-AP-MW-15V
3/2/2016	319		266		182	
4/19/2016					151	
4/20/2016	305		311			
6/8/2016	287		353		168	
8/30/2016			328			
8/31/2016	295				188	
10/18/2016			310			
10/19/2016	305				180	
1/31/2017	325		312		166	
5/2/2017			300		183	
5/3/2017	306					
6/6/2017			335		187	
6/7/2017	320					
9/13/2017	332		339		202	
5/1/2018					197	
5/2/2018	320		301			
8/29/2018	312		318		192	
11/27/2018			295		190	
11/28/2018	304					
5/29/2019	307		318		198	
7/31/2019						337
10/1/2019	290		317		236	321
3/31/2020	290		317			
4/1/2020					231	
9/1/2020	285					318
9/2/2020		361	327	498	208	
5/11/2021					279	
5/19/2021	300	362				
5/25/2021			318	520		335

Time Series

Constituent: TDS (mg/L) Analysis Run 7/14/2021 12:31 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H
3/2/2016	263					
4/19/2016	259					
6/8/2016	285					
8/31/2016	279					
10/19/2016	264					
1/31/2017	270					
5/2/2017	259					
6/6/2017	278					
9/13/2017	333					
5/1/2018	274					
8/29/2018	283					
11/27/2018	250					
3/20/2019				293		
5/29/2019	264					
7/31/2019			212			318
10/1/2019	295			283		316
10/2/2019			203			
3/31/2020	276					
4/1/2020			243	210		
9/1/2020			236	576	281	294
9/2/2020	279	219				
5/17/2021			201			
5/18/2021				438		
5/19/2021	274	213		293		
5/25/2021						162

Time Series

Constituent: TDS (mg/L) Analysis Run 7/14/2021 12:31 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1V	BY-AP-MW-2	BY-AP-MW-20H	BY-AP-MW-20V	BY-AP-MW-22H	BY-AP-MW-23H
3/2/2016		42				
4/19/2016		51.3				
6/8/2016		46.7				
8/31/2016		32.7				
10/19/2016		37.3				
1/31/2017		47.3				
5/2/2017		44				
6/6/2017		48				
9/12/2017		40.7				
5/1/2018		42.7				
8/28/2018		28				
11/27/2018		48				
1/8/2019	192					
5/29/2019		47.3				
7/31/2019			481	345		241
10/1/2019		44.7	470	346		261
10/2/2019	154					
3/30/2020	160					
3/31/2020		42				
4/1/2020			319			105
8/31/2020		45.3				
9/1/2020	175		479	308	362	271
5/18/2021	189	48.7				
5/19/2021			479	271		
5/24/2021						244
5/25/2021				378		

Time Series

Constituent: TDS (mg/L) Analysis Run 7/14/2021 12:31 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-25VM	BY-AP-MW-3	BY-AP-MW-4
3/1/2016						27.3
3/2/2016					27.3	
4/19/2016					33.3	38
6/7/2016					44	48.7
8/30/2016						32.7
8/31/2016					29.3	
10/19/2016					29.3	36
1/31/2017					36.7	40.7
5/2/2017					28	30.7
6/6/2017					36.7	41.3
9/12/2017					35.3	34.7
5/1/2018					34.7	39.3
8/28/2018					34	26
11/27/2018					41.3	32
1/8/2019		504				
5/29/2019					40	39.3
10/1/2019					36.7	32
10/2/2019		430				
3/31/2020		418			37.3	42.7
9/1/2020	391				39.3	36
9/2/2020		471	36	34		
5/17/2021	386					
5/18/2021					38	47.3
5/24/2021			39.3			
5/25/2021		420				

Time Series

Constituent: TDS (mg/L) Analysis Run 7/14/2021 12:31 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-5	BY-AP-MW-5V	BY-AP-MW-6	BY-AP-MW-7	BY-AP-MW-7V	BY-AP-MW-8
3/1/2016	273		45.3	129		309
4/19/2016			46			
4/20/2016	269			128		324
6/7/2016	272		46	140		314
8/30/2016	244		30			308
8/31/2016				112		
10/18/2016	238					295
10/19/2016			37.3	134		
1/31/2017	266		43.3	134		303
5/3/2017	259		44.7	127		300
6/7/2017	255		45.3	134		284
9/14/2017	276		48.7	141		325
5/2/2018	247		44	133		306
8/29/2018	263		50			287
11/27/2018	248					303
11/28/2018			50.7	138		
1/8/2019		76.7				
1/9/2019					240	
5/29/2019	259		48.7	132		291
9/30/2019				137		293
10/1/2019	243		38		182	
10/2/2019		98				
3/30/2020				135	204	310
3/31/2020	243	81.3	42			
9/1/2020	253	94				
9/2/2020			37.3	129	168	298
5/11/2021						318
5/17/2021			46.7			
5/18/2021				175	192	

Time Series

Constituent: TDS (mg/L) Analysis Run 7/14/2021 12:31 PM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-8V	BY-AP-MW-9	BY-GSA-MW-1 (bg)	BY-GSA-MW-2 (bg)	BY-GSA-MW-3 (bg)	BY-GSA-MW-4 (bg)
2/23/2016			26.7	30.7	40	<25
3/1/2016		314				
4/19/2016			<25	<25	32	<25
4/20/2016		338				
6/6/2016			32.7			28.7
6/7/2016				35.3	38.7	
6/8/2016		288				
8/30/2016			33.3	27.3	31.3	25.3
8/31/2016		334				
10/18/2016			27.3	<25	26.7	<25
10/19/2016		333				
1/31/2017			32	32.7	30	26
2/1/2017		330				
5/2/2017			31.3	30.7	30.7	<25
5/3/2017		338				
6/6/2017			35.3	34.7	32.7	42.7
6/7/2017		300				
9/12/2017						26.7
9/13/2017			36.7	39.3	38	
9/14/2017		350				
5/1/2018				42	35.3	34.7
5/2/2018		333	34			
8/28/2018		324				
11/26/2018						32.7
11/27/2018			50.7	31.3	36	
11/28/2018		330				
1/9/2019	276					
5/28/2019						31.3
5/29/2019			58	40	37.3	
5/30/2019		315				
9/30/2019		319				
10/1/2019	324					
10/2/2019			46	41.3	36.7	36
3/30/2020	328					
3/31/2020		330	53.3	40	39.3	36.7
9/2/2020	318	301				
9/8/2020						39.3
9/9/2020			42	40.7	42.7	
5/11/2021				35.3	44	46.7
5/12/2021			40.7			
5/18/2021	331	314				

Time Series

Constituent: Thallium (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V
3/1/2016		<0.000203		<0.000203		
3/2/2016	<0.000203				<0.000203	
4/19/2016	<0.000203					
4/20/2016		<0.000203		<0.000203	<0.000203	
6/8/2016	<0.000203	<0.000203		<0.000203	<0.000203	
8/31/2016	<0.000203	<0.000203		<0.000203	<0.000203	
10/19/2016	<0.000203	<0.000203		<0.000203	<0.000203	
1/31/2017	<0.000203					
2/1/2017		<0.000203		<0.000203	<0.000203	
5/2/2017	<0.000203					
5/3/2017		<0.000203		<0.000203	<0.000203	
6/6/2017	<0.000203					
6/7/2017		<0.000203		<0.000203	<0.000203	
1/23/2018		<0.000203		<0.000203	<0.000203	
1/24/2018	<0.000203					
5/1/2018	<0.000203					
5/2/2018		<0.000203		<0.000203	<0.000203	
11/28/2018	<0.000203	<0.000203		<0.000203	<0.000203	
1/8/2019			<0.000203			<0.000203
5/29/2019	<0.000203			<0.000203	<0.000203	
5/30/2019		<0.000203				
9/30/2019		<0.000203		<0.000203		
10/1/2019	<0.000203		<0.000203		<0.000203	
10/2/2019						<0.000203
3/30/2020	<0.000203					
3/31/2020		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
9/1/2020	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
5/11/2021		<0.000203				
5/18/2021	<0.000203		<0.000203		<0.000203	<0.000203
5/19/2021				<0.000203		

Time Series

Constituent: Thallium (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14	BY-AP-MW-14V	BY-AP-MW-15	BY-AP-MW-15V
3/2/2016	<0.000203		<0.000203		<0.000203	
4/19/2016					<0.000203	
4/20/2016	<0.000203		<0.000203			
6/8/2016	<0.000203		<0.000203		<0.000203	
8/30/2016			<0.000203			
8/31/2016	<0.000203				<0.000203	
10/18/2016			<0.000203			
10/19/2016	<0.000203				<0.000203	
1/31/2017	<0.000203		<0.000203		<0.000203	
5/2/2017			<0.000203		<0.000203	
5/3/2017	<0.000203					
6/6/2017			<0.000203		<0.000203	
6/7/2017	0.000878 (J)					
1/22/2018	<0.000203				<0.000203	
1/23/2018			<0.000203			
5/1/2018					<0.000203	
5/2/2018	<0.000203		<0.000203			
11/27/2018			<0.000203		<0.000203	
11/28/2018	<0.000203					
5/29/2019	<0.000203		<0.000203		<0.000203	
7/31/2019						<0.000203
10/1/2019	<0.000203		<0.000203		<0.000203	<0.000203
3/31/2020	<0.000203		<0.000203			
4/1/2020					<0.000203	
9/1/2020	<0.000203					<0.000203
9/2/2020		<0.000203	<0.000203	<0.000203	<0.000203	
5/11/2021					<0.000203	
5/19/2021	<0.000203	<0.000203				
5/25/2021			<0.000203	<0.000203		8.49E-05 (J)

Time Series

Constituent: Thallium (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H
3/2/2016	<0.000203					
4/19/2016	<0.000203					
6/8/2016	<0.000203					
8/31/2016	<0.000203					
10/19/2016	<0.000203					
1/31/2017	<0.000203					
5/2/2017	<0.000203					
6/6/2017	<0.000203					
1/23/2018	<0.000203					
5/1/2018	<0.000203					
11/27/2018	<0.000203					
3/20/2019				<0.000203		
5/29/2019	<0.000203					
7/31/2019			<0.000203			<0.000203
10/1/2019	<0.000203			<0.000203		<0.000203
10/2/2019			<0.000203			
3/31/2020	<0.000203					
4/1/2020			<0.000203	<0.000203		
9/1/2020			<0.000203	<0.000203	<0.000203	<0.000203
9/2/2020	<0.000203	<0.000203				
5/17/2021			<0.000203			
5/18/2021				<0.000203		
5/19/2021	<0.000203	9.13E-05 (J)		<0.000203		
5/25/2021						<0.000203

Time Series

Constituent: Thallium (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1V	BY-AP-MW-2	BY-AP-MW-20H	BY-AP-MW-20V	BY-AP-MW-22H	BY-AP-MW-23H
3/2/2016		<0.000203				
4/19/2016		<0.000203				
6/8/2016		<0.000203				
8/31/2016		<0.000203				
10/19/2016		<0.000203				
1/31/2017		<0.000203				
5/2/2017		<0.000203				
6/6/2017		<0.000203				
1/24/2018		<0.000203				
5/1/2018		<0.000203				
11/27/2018		<0.000203				
1/8/2019	<0.000203					
5/29/2019		<0.000203				
7/31/2019			<0.000203		<0.000203	<0.000203
10/1/2019		<0.000203	<0.000203		<0.000203	<0.000203
10/2/2019	<0.000203					
3/30/2020	<0.000203					
3/31/2020		<0.000203				
4/1/2020			<0.000203			<0.000203
8/31/2020		<0.000203				
9/1/2020	<0.000203		<0.000203	<0.000203	<0.000203	<0.000203
5/18/2021	<0.000203	<0.000203				
5/19/2021			<0.000203	<0.000203		
5/24/2021						<0.000203
5/25/2021				<0.000203		

Time Series

Constituent: Thallium (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-25VM	BY-AP-MW-3	BY-AP-MW-4
3/1/2016						<0.000203
3/2/2016					<0.000203	
4/19/2016					<0.000203	<0.000203
6/7/2016					<0.000203	<0.000203
8/30/2016						<0.000203
8/31/2016					<0.000203	
10/19/2016					<0.000203	<0.000203
1/31/2017					<0.000203	<0.000203
5/2/2017					<0.000203	<0.000203
6/6/2017					<0.000203	<0.000203
1/24/2018					<0.000203	<0.000203
5/1/2018					<0.000203	<0.000203
11/27/2018					<0.000203	<0.000203
1/8/2019		<0.000203				
5/29/2019					<0.000203	<0.000203
10/1/2019					<0.000203	<0.000203
10/2/2019		<0.000203				
3/31/2020		<0.000203			<0.000203	<0.000203
9/1/2020	<0.000203				<0.000203	<0.000203
9/2/2020		<0.000203	<0.000203	<0.000203		
5/17/2021	<0.000203					
5/18/2021					<0.000203	<0.000203
5/24/2021			<0.000203			
5/25/2021		<0.000203				

Time Series

Constituent: Thallium (mg/L) Analysis Run 7/14/2021 12:31 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-5	BY-AP-MW-5V	BY-AP-MW-6	BY-AP-MW-7	BY-AP-MW-7V	BY-AP-MW-8
3/1/2016	<0.000203		<0.000203	<0.000203		<0.000203
4/19/2016			<0.000203			
4/20/2016	<0.000203			<0.000203		<0.000203
6/7/2016	<0.000203		<0.000203	<0.000203		<0.000203
8/30/2016	<0.000203		<0.000203			<0.000203
8/31/2016				<0.000203		
10/18/2016	<0.000203					<0.000203
10/19/2016			<0.000203	<0.000203		
1/31/2017	<0.000203		<0.000203	<0.000203		<0.000203
5/3/2017	<0.000203		<0.000203	<0.000203		<0.000203
6/7/2017	<0.000203		<0.000203	<0.000203		<0.000203
1/24/2018	<0.000203		<0.000203	<0.000203		<0.000203
5/2/2018	<0.000203		<0.000203	<0.000203		<0.000203
11/27/2018	<0.000203					<0.000203
11/28/2018			<0.000203	<0.000203		
1/8/2019		<0.000203				
1/9/2019					<0.000203	
5/29/2019	<0.000203		<0.000203	<0.000203		<0.000203
9/30/2019				<0.000203		<0.000203
10/1/2019	<0.000203		<0.000203		<0.000203	
10/2/2019		<0.000203				
3/30/2020				<0.000203	<0.000203	<0.000203
3/31/2020	<0.000203	<0.000203	<0.000203			
9/1/2020	<0.000203	<0.000203				
9/2/2020			<0.000203	<0.000203	<0.000203	<0.000203
5/11/2021						<0.000203
5/17/2021			<0.000203			
5/18/2021				<0.000203	<0.000203	

Time Series

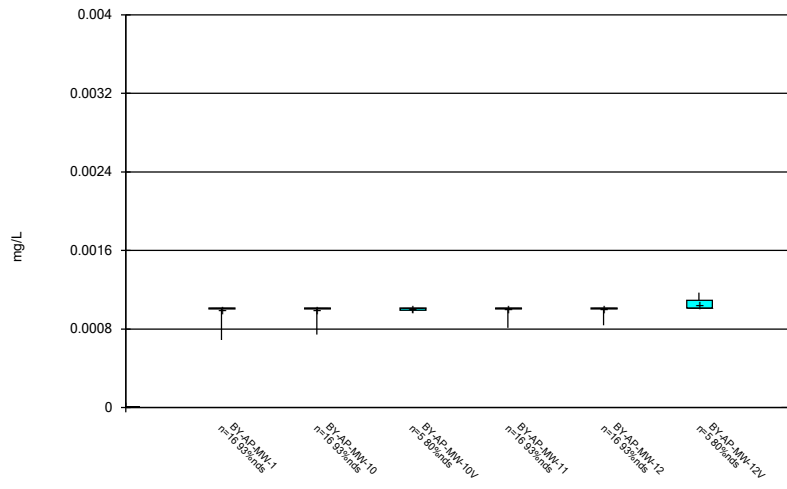
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Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-8V	BY-AP-MW-9	BY-GSA-MW-1 (bg)	BY-GSA-MW-2 (bg)	BY-GSA-MW-3 (bg)	BY-GSA-MW-4 (bg)
2/23/2016			<0.000203	<0.000203	<0.000203	<0.000203
3/1/2016		<0.000203				
4/19/2016			<0.000203	<0.000203	<0.000203	<0.000203
4/20/2016		<0.000203				
6/6/2016			<0.000203			<0.000203
6/7/2016				<0.000203	<0.000203	
6/8/2016		<0.000203				
8/30/2016			<0.000203	<0.000203	<0.000203	<0.000203
8/31/2016		<0.000203				
10/18/2016			<0.000203	<0.000203	<0.000203	<0.000203
10/19/2016		<0.000203				
1/31/2017			<0.000203	<0.000203	<0.000203	<0.000203
2/1/2017		<0.000203				
5/2/2017			<0.000203	<0.000203	<0.000203	<0.000203
5/3/2017		<0.000203				
6/6/2017			<0.000203	<0.000203	<0.000203	<0.000203
6/7/2017		<0.000203				
1/23/2018		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
5/1/2018				<0.000203	<0.000203	<0.000203
5/2/2018		<0.000203	<0.000203			
11/26/2018						<0.000203
11/27/2018			<0.000203	<0.000203	<0.000203	
11/28/2018		<0.000203				
1/9/2019	<0.000203					
5/28/2019						<0.000203
5/29/2019			<0.000203	<0.000203	<0.000203	
5/30/2019		<0.000203				
9/30/2019		<0.000203				
10/1/2019	<0.000203					
10/2/2019			<0.000203	<0.000203	<0.000203	<0.000203
3/30/2020	<0.000203					
3/31/2020		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
9/2/2020	<0.000203	<0.000203				
9/8/2020						<0.000203
9/9/2020			<0.000203	<0.000203	<0.000203	
5/11/2021				<0.000203	<0.000203	<0.000203
5/12/2021			<0.000203			
5/18/2021	<0.000203	<0.000203				

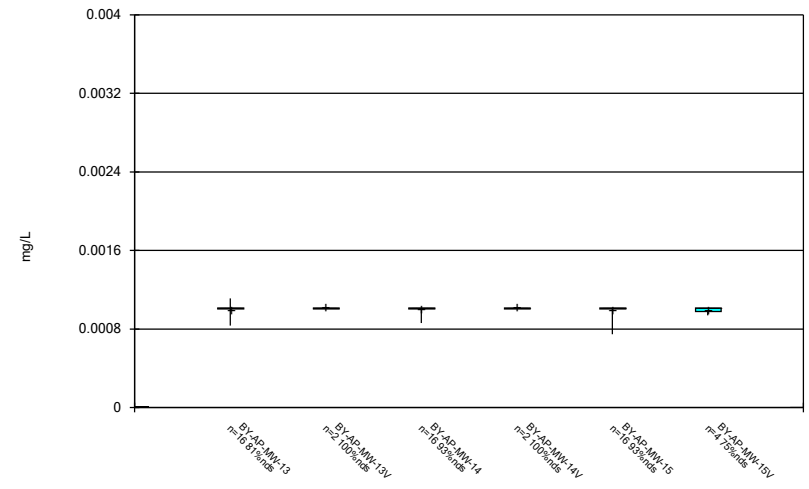
FIGURE B.

Box & Whiskers Plot



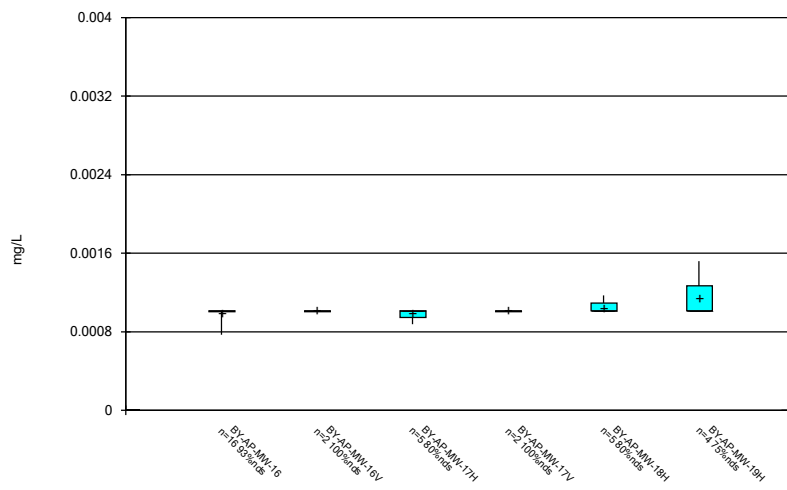
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



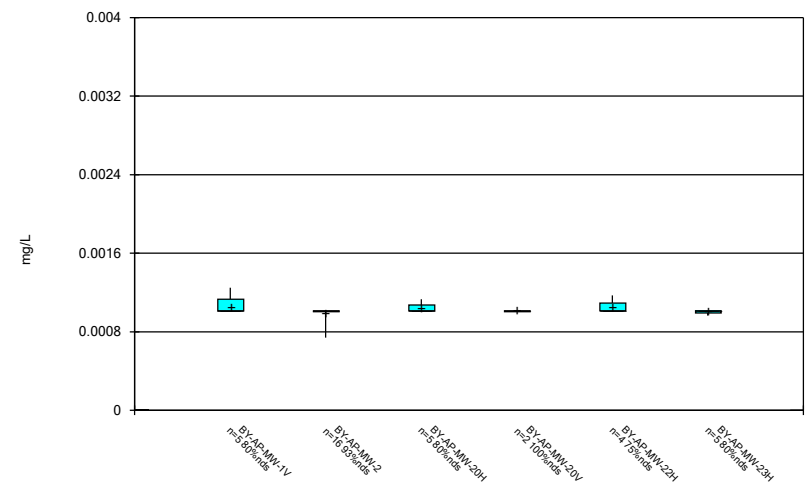
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



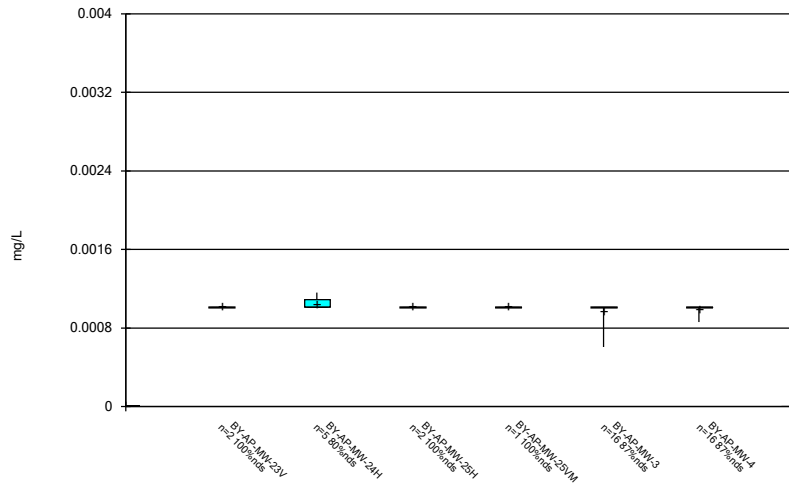
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



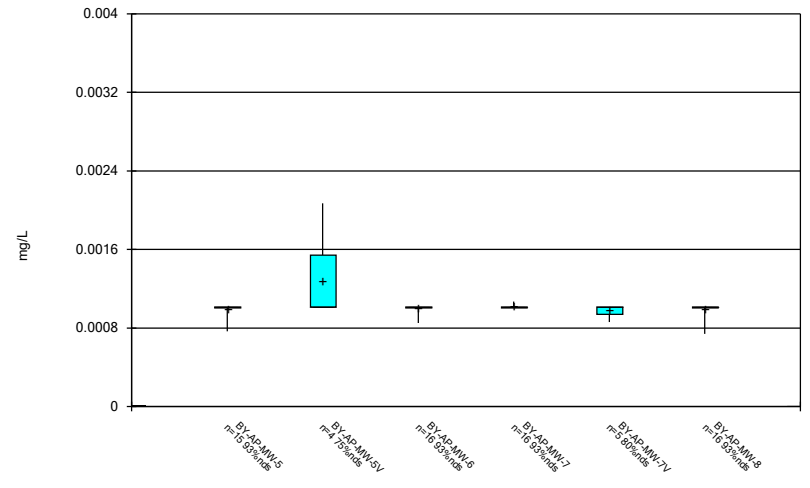
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



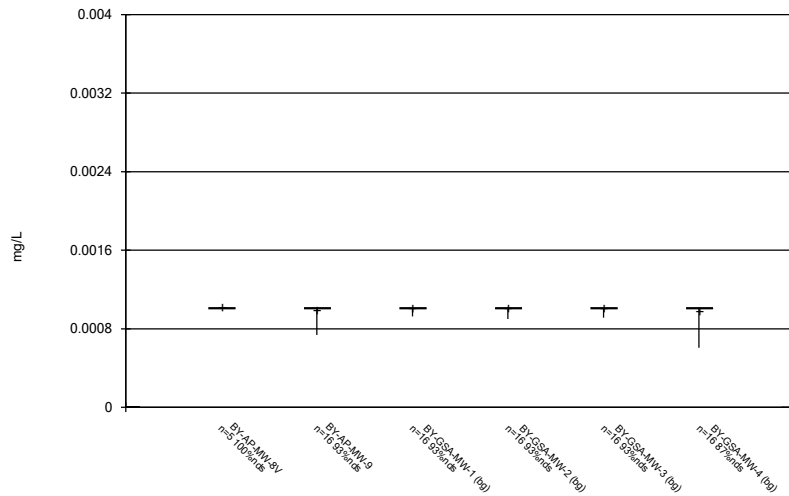
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



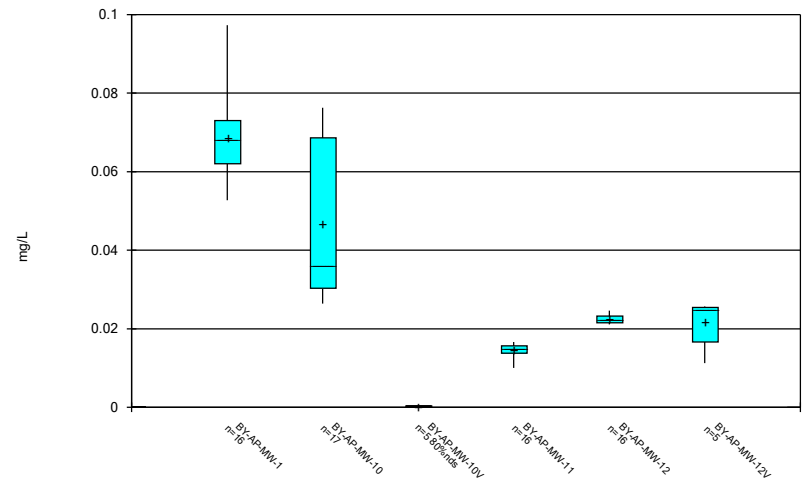
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



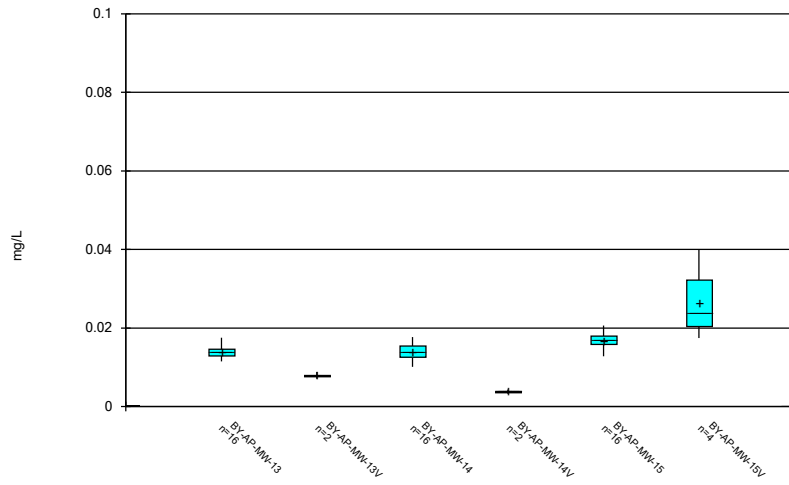
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



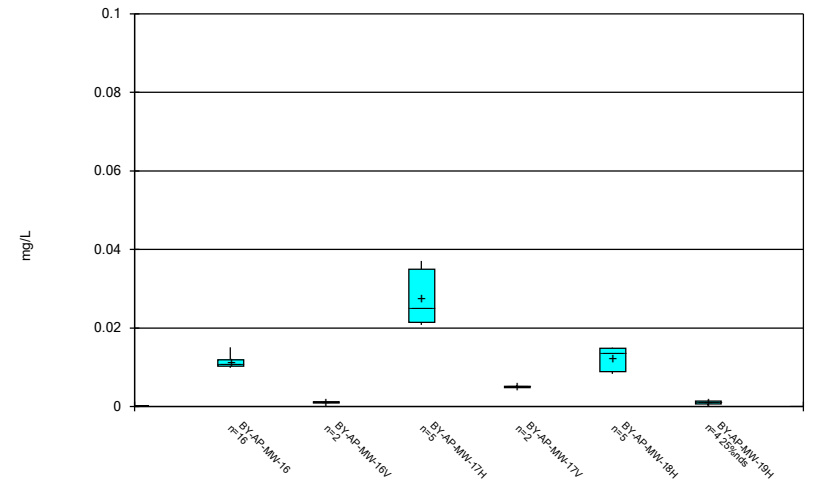
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



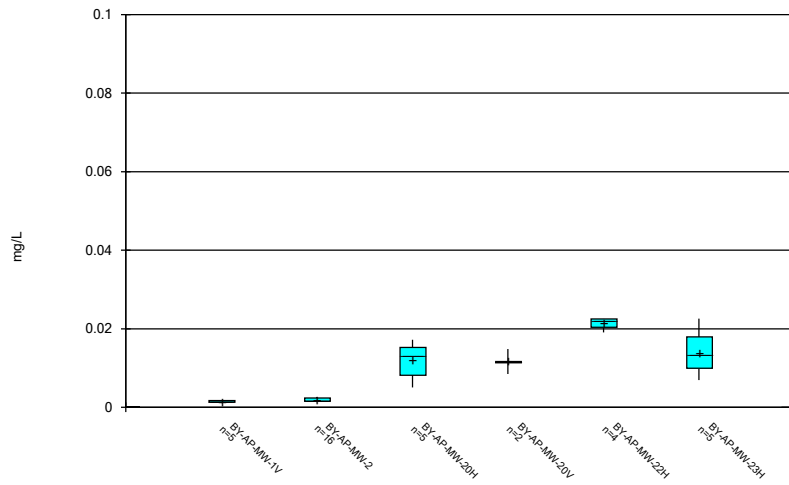
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



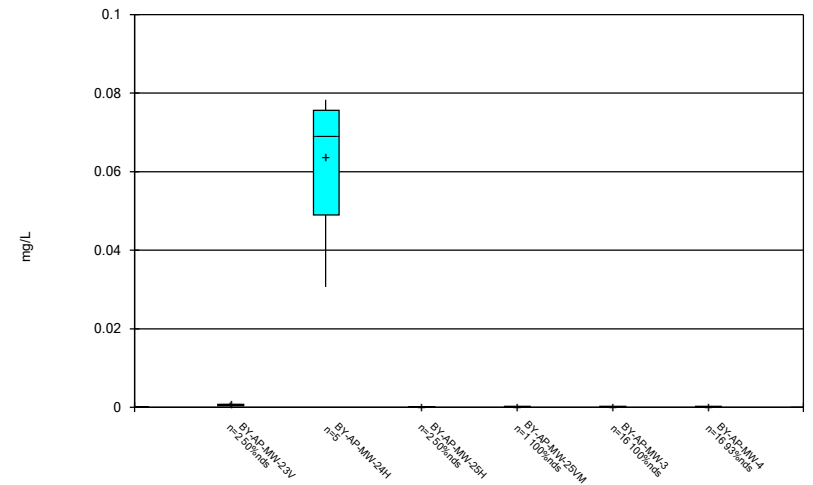
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



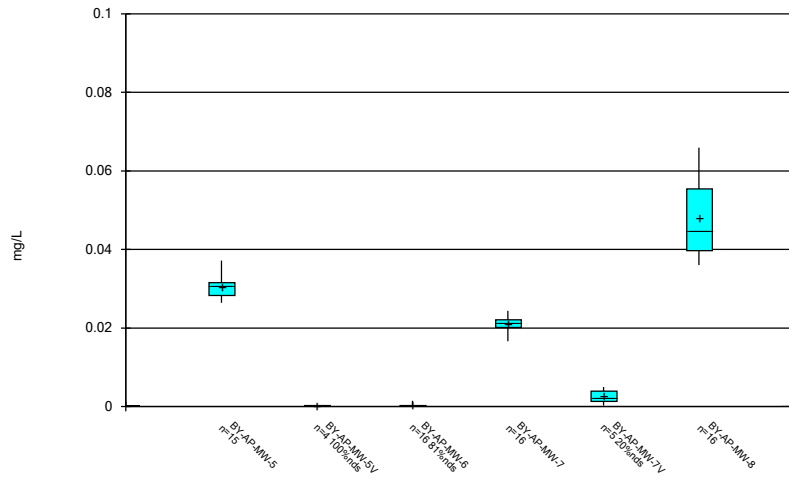
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



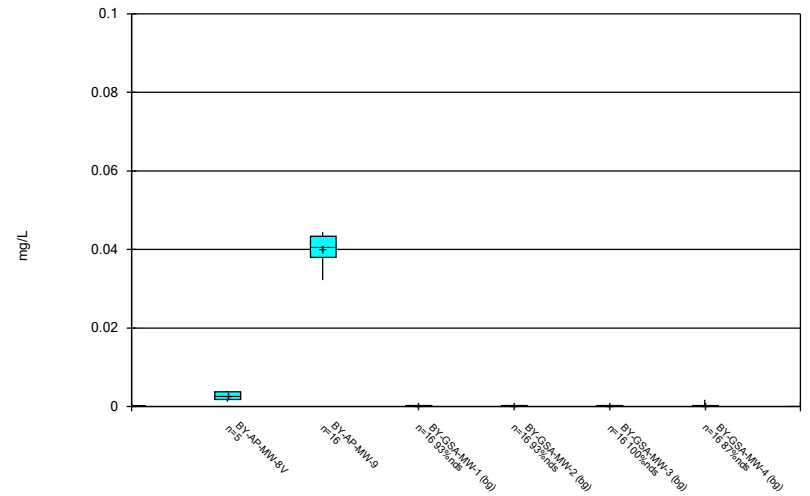
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



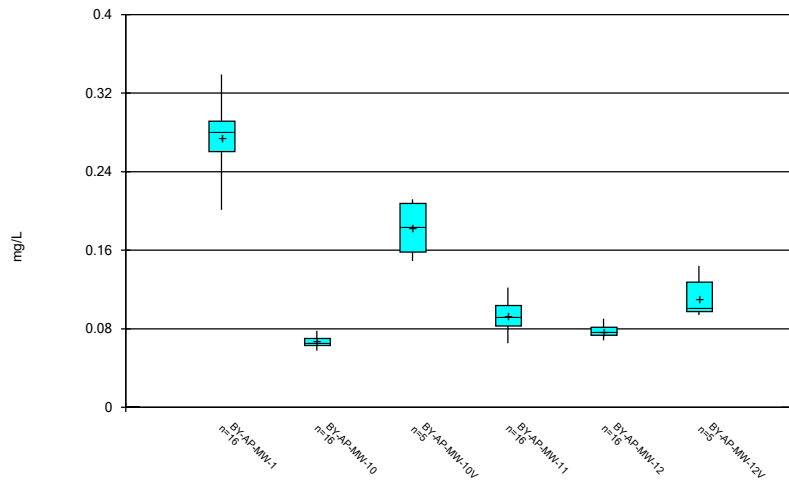
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



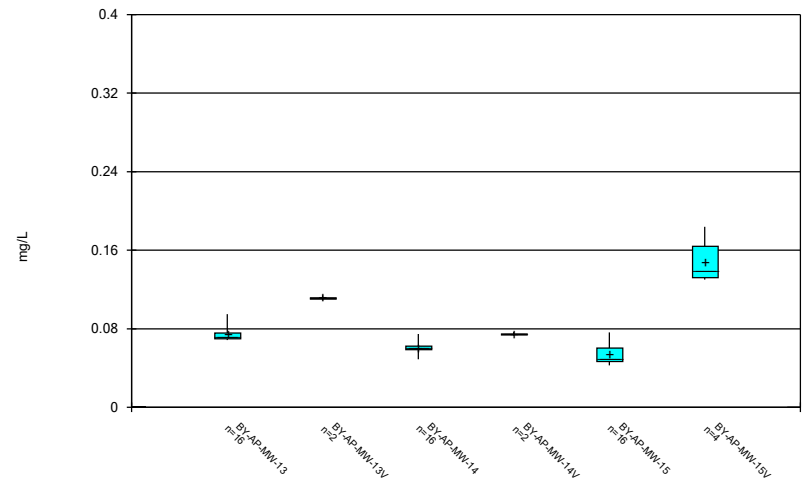
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



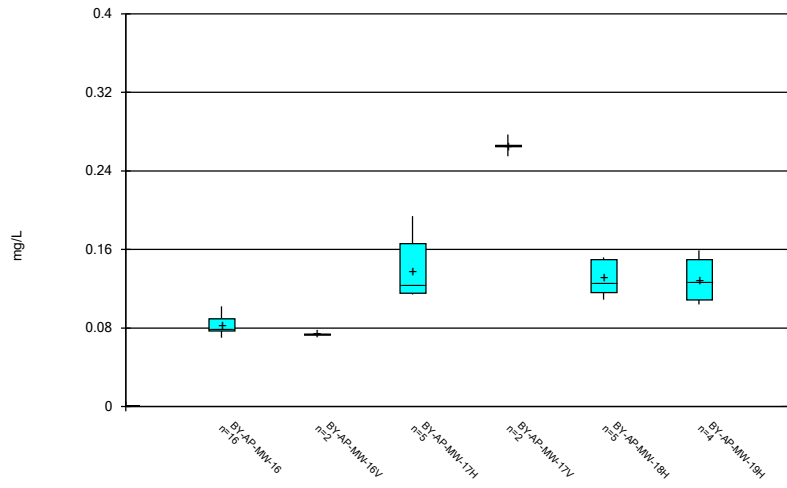
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



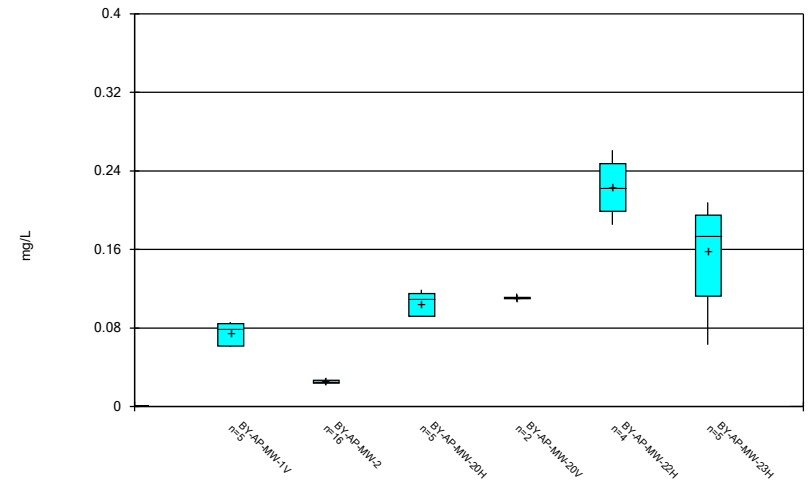
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



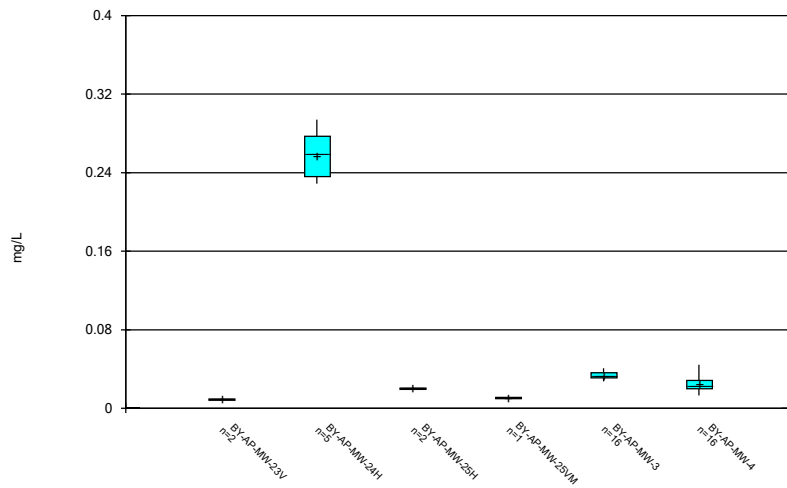
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



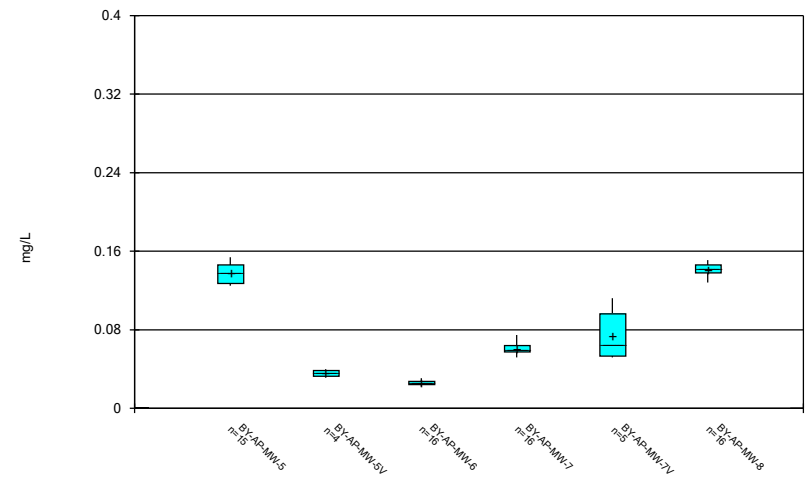
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



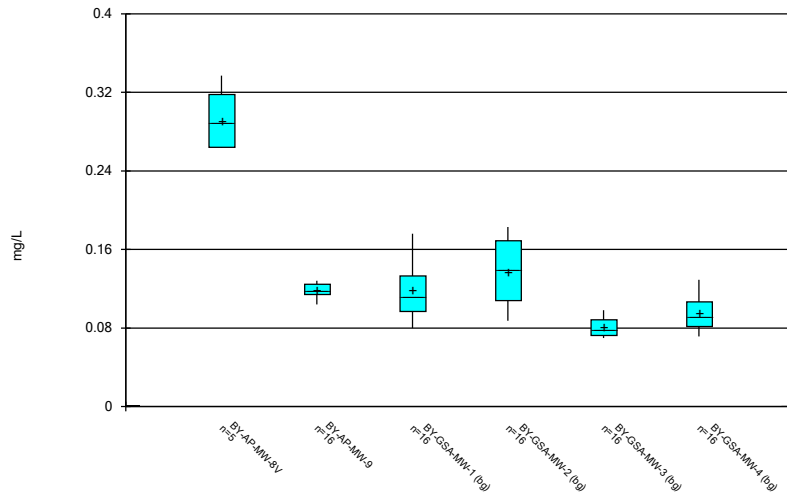
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



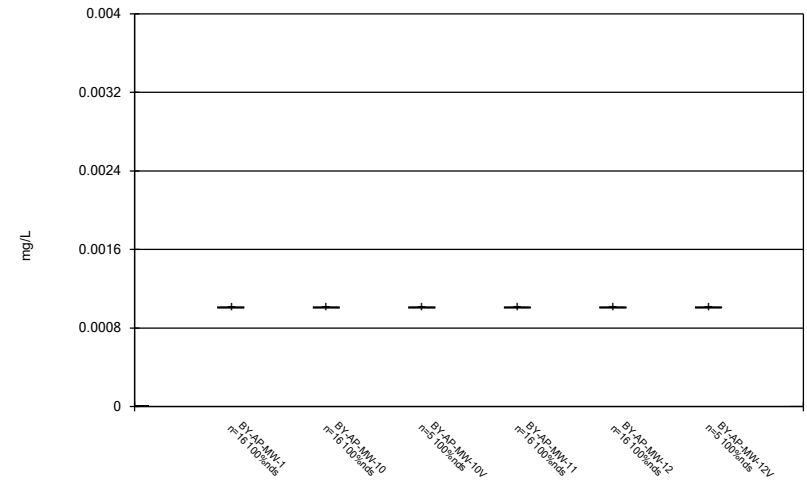
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



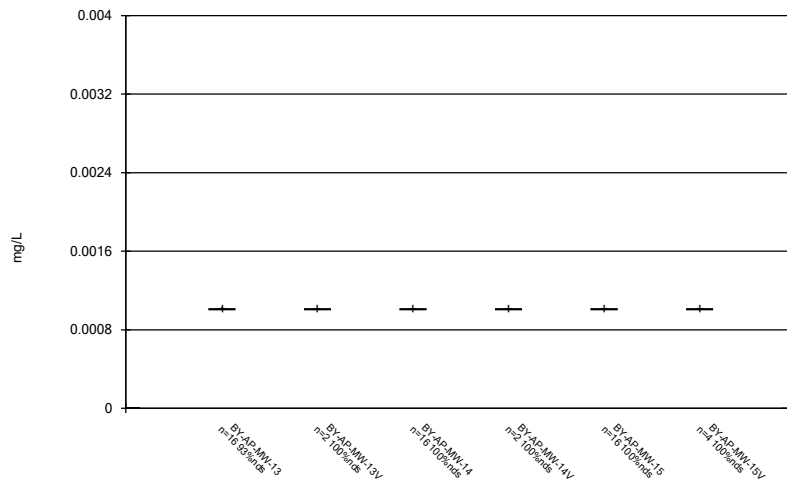
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



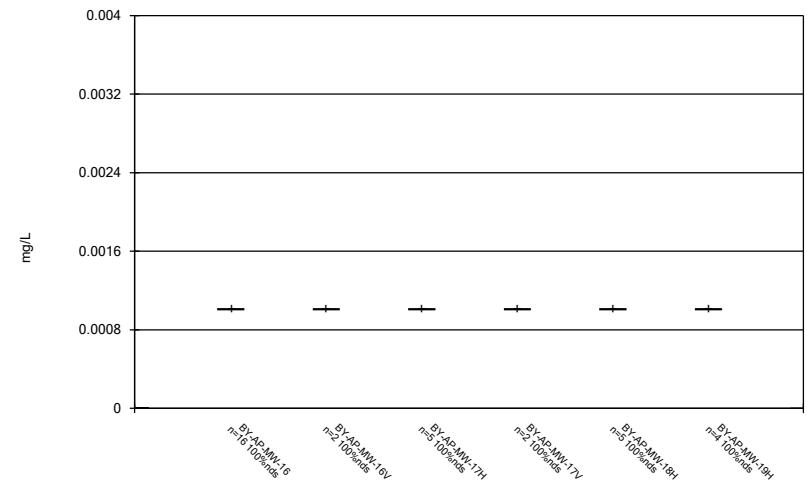
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



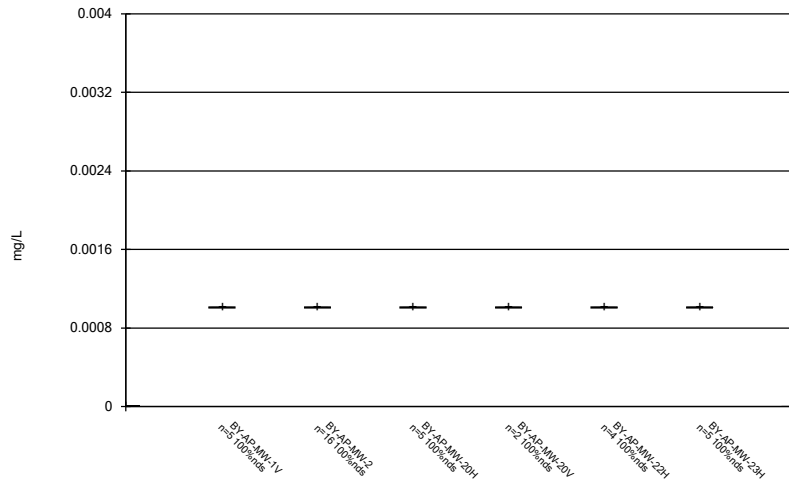
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



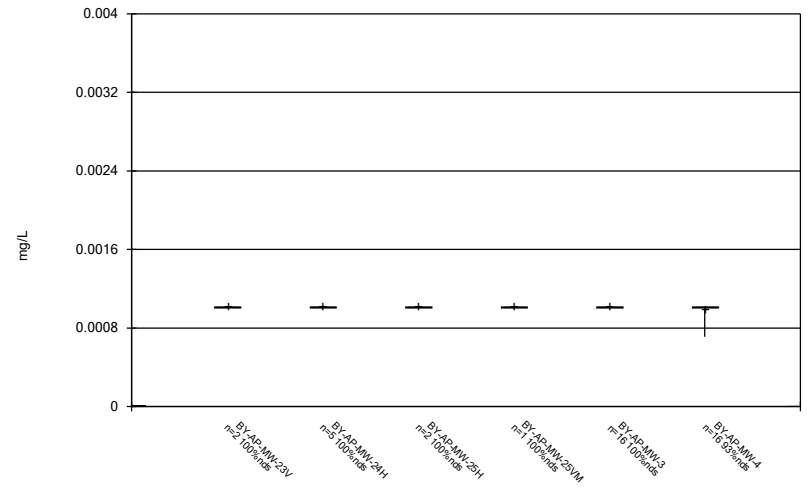
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



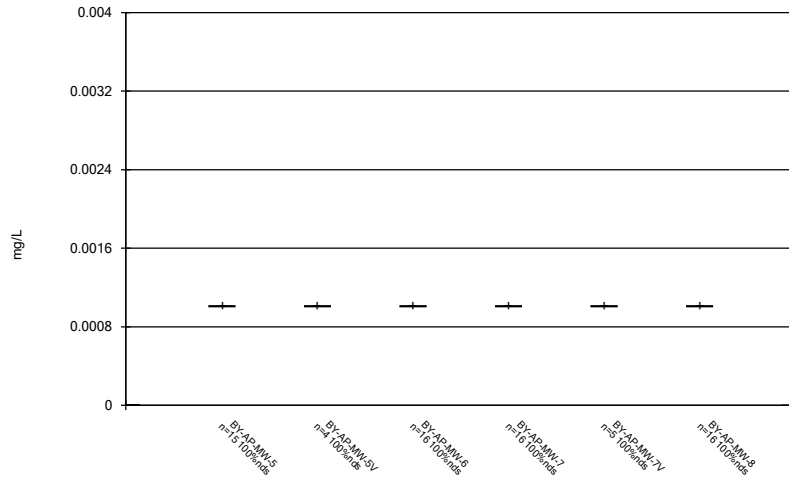
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



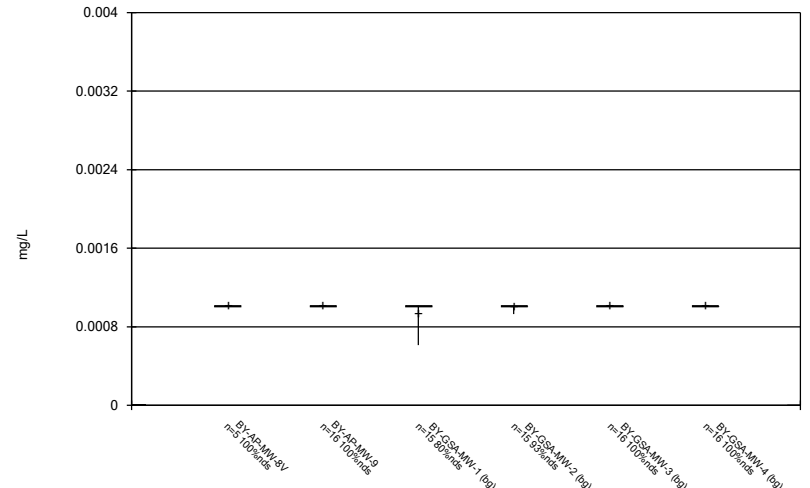
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Box & Whiskers Plot



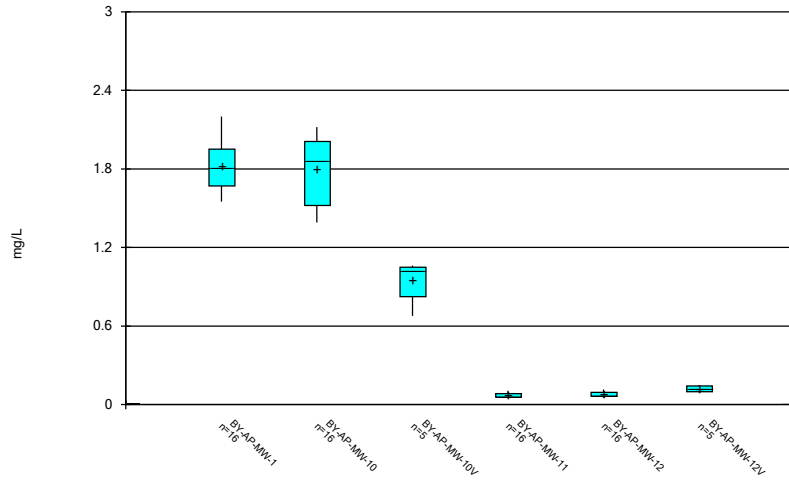
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



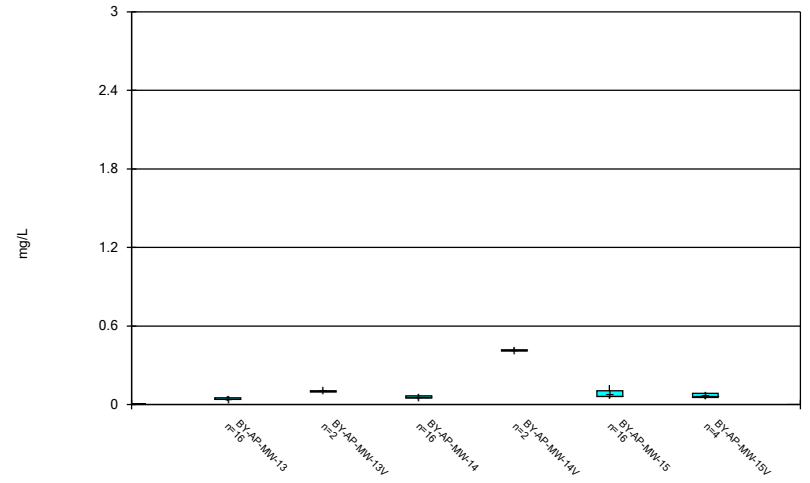
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Box & Whiskers Plot



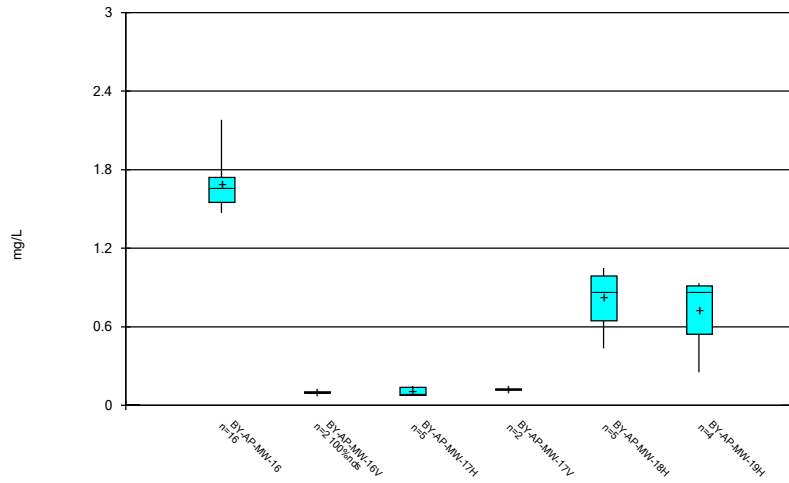
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Box & Whiskers Plot



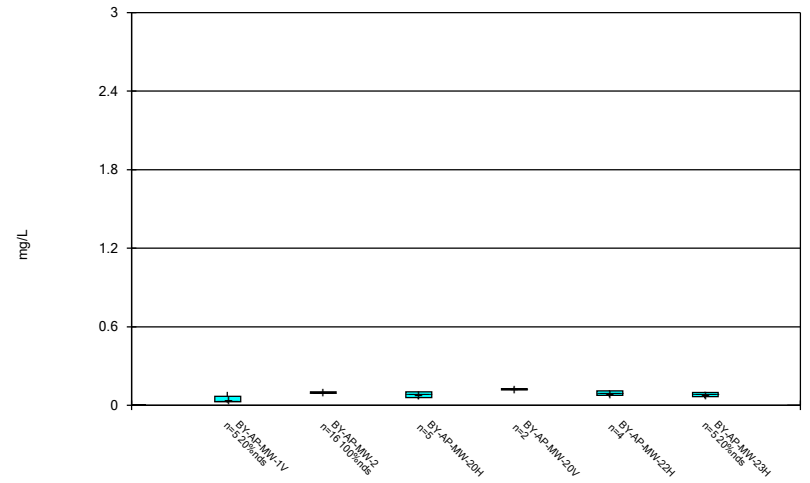
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Box & Whiskers Plot



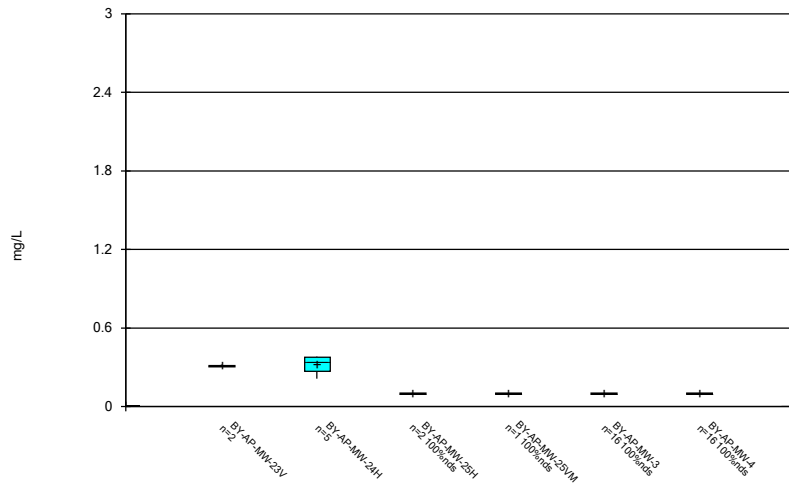
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Box & Whiskers Plot



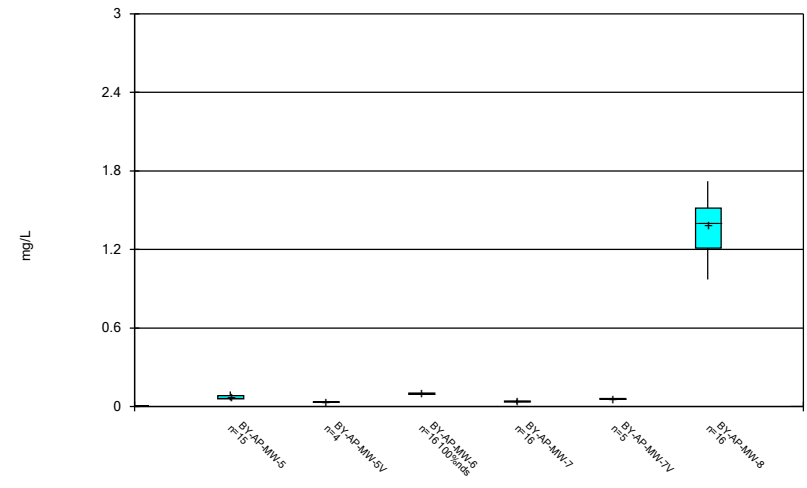
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



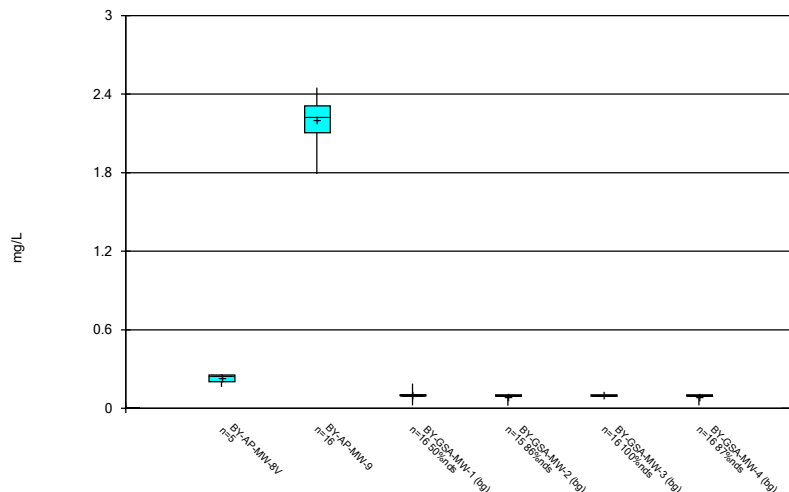
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



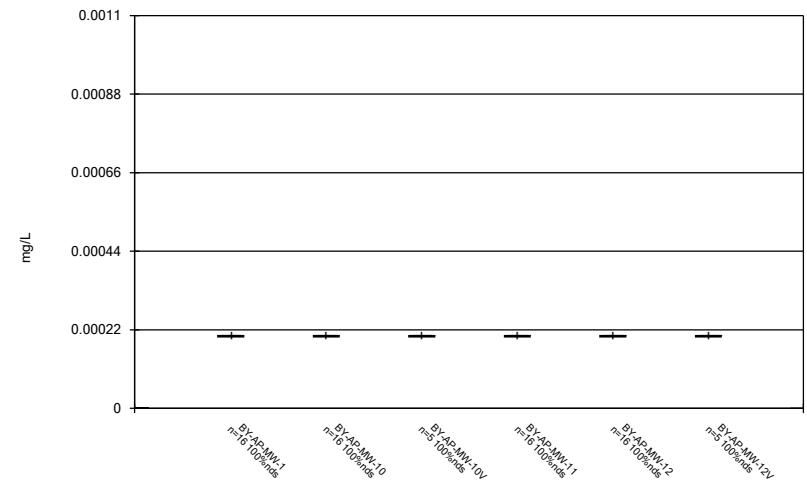
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Box & Whiskers Plot



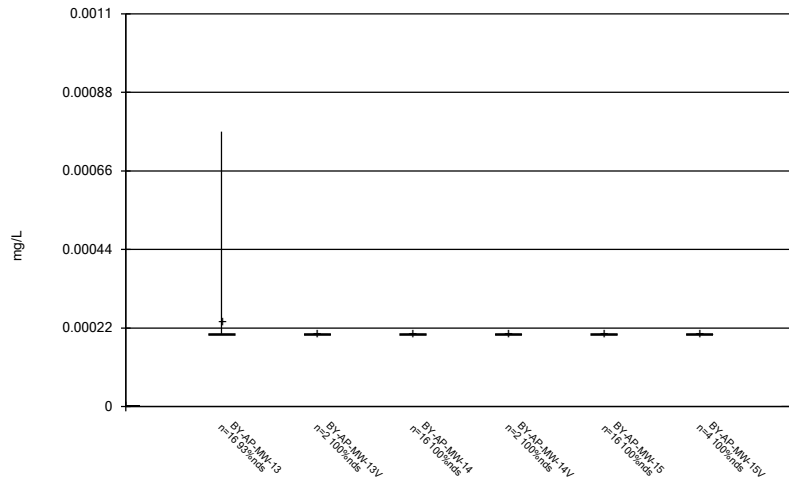
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Box & Whiskers Plot



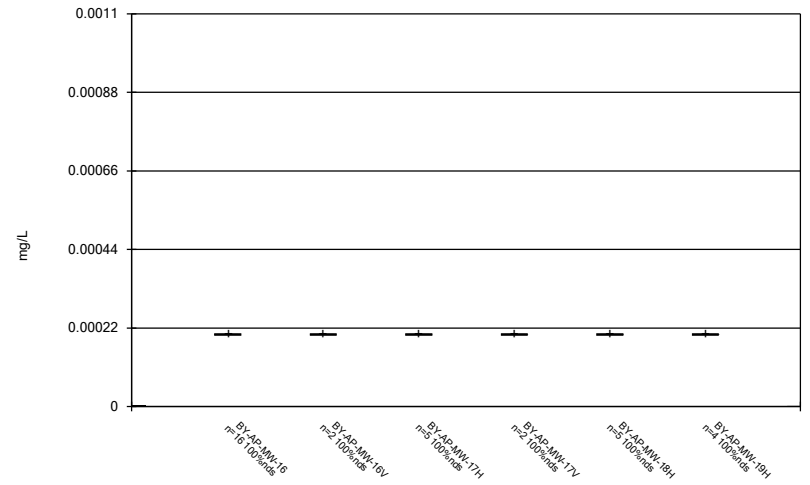
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Box & Whiskers Plot



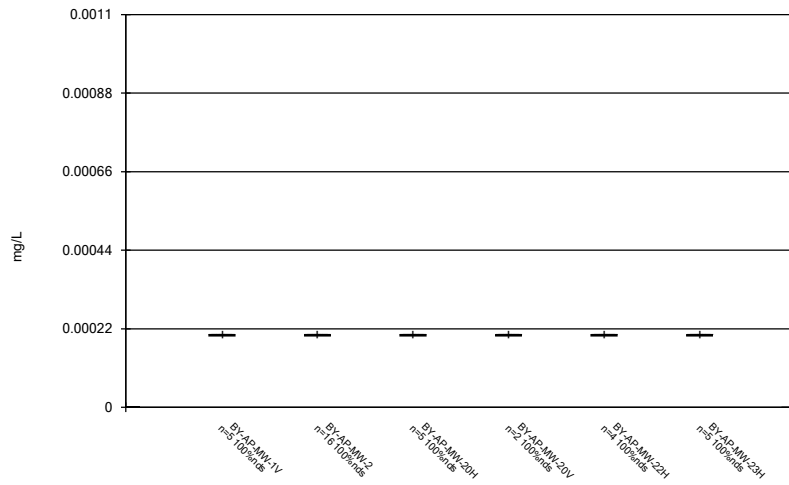
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Box & Whiskers Plot



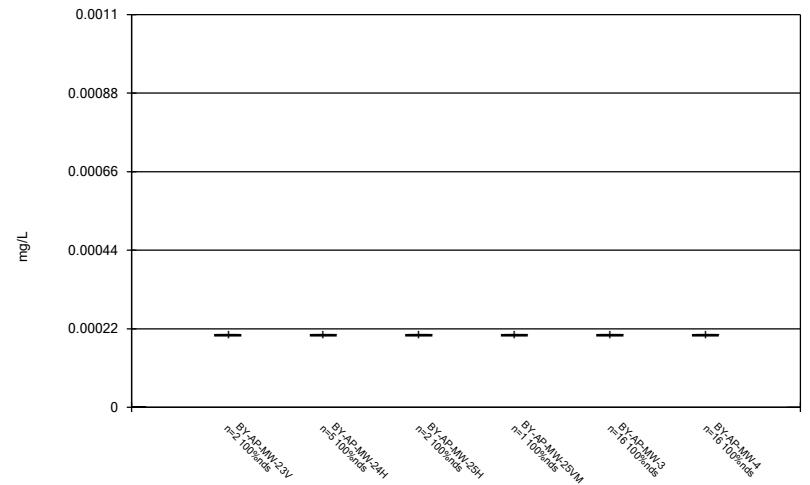
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Box & Whiskers Plot



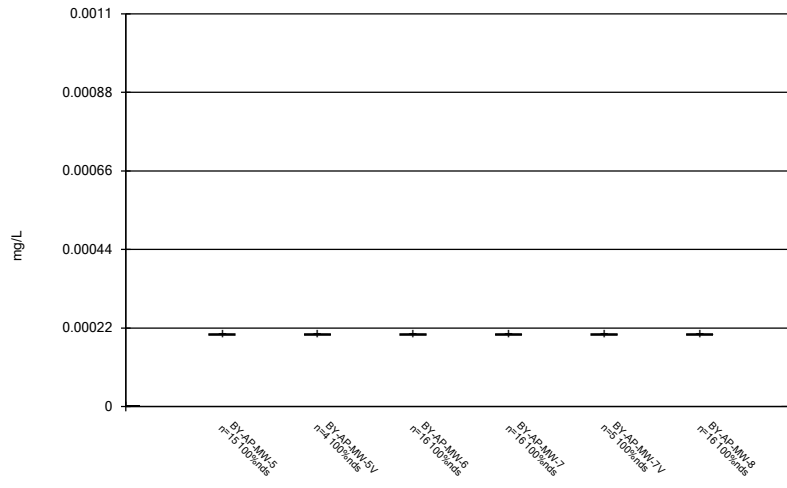
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Box & Whiskers Plot



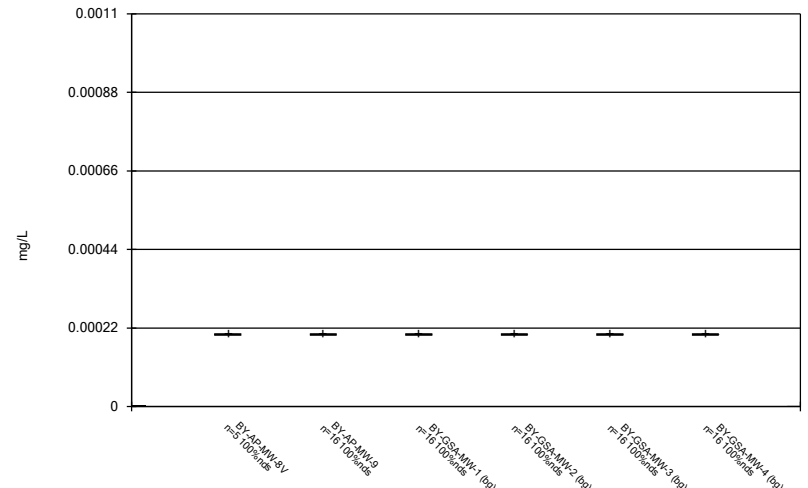
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Box & Whiskers Plot



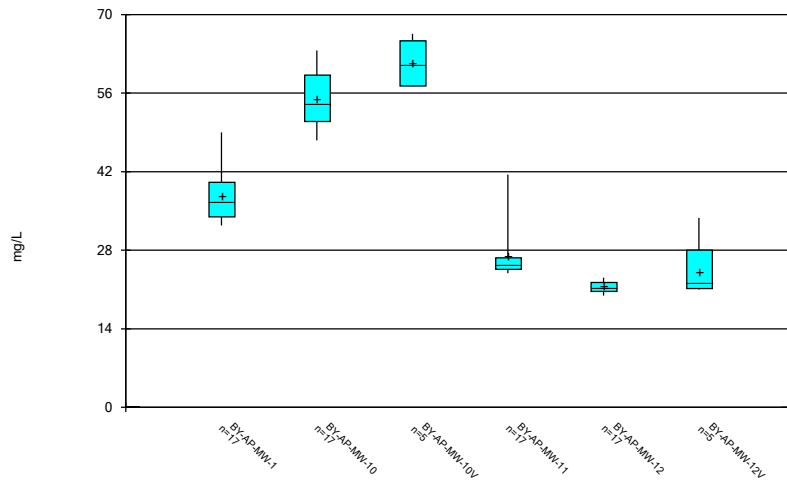
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Box & Whiskers Plot



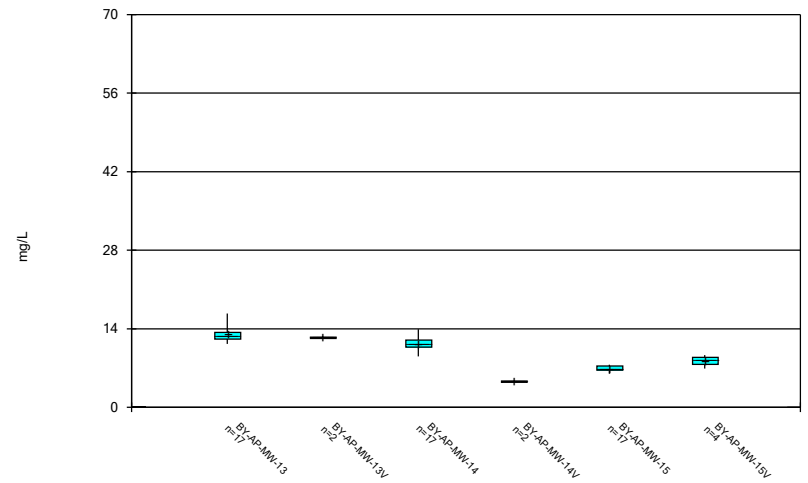
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Box & Whiskers Plot



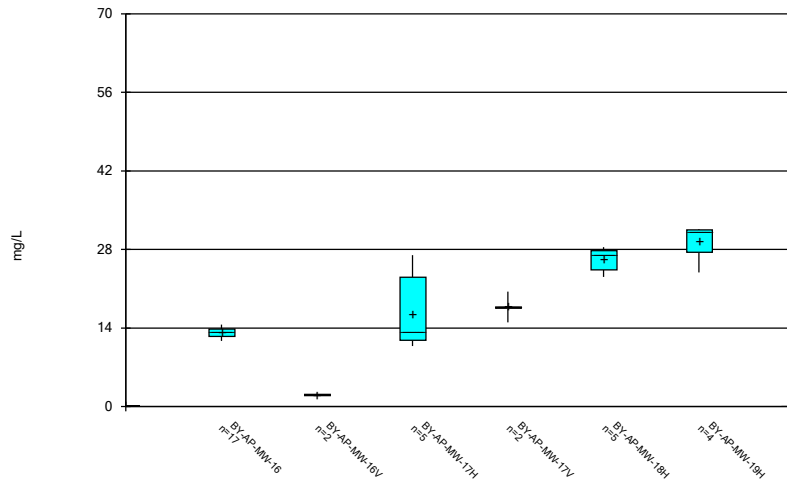
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Box & Whiskers Plot



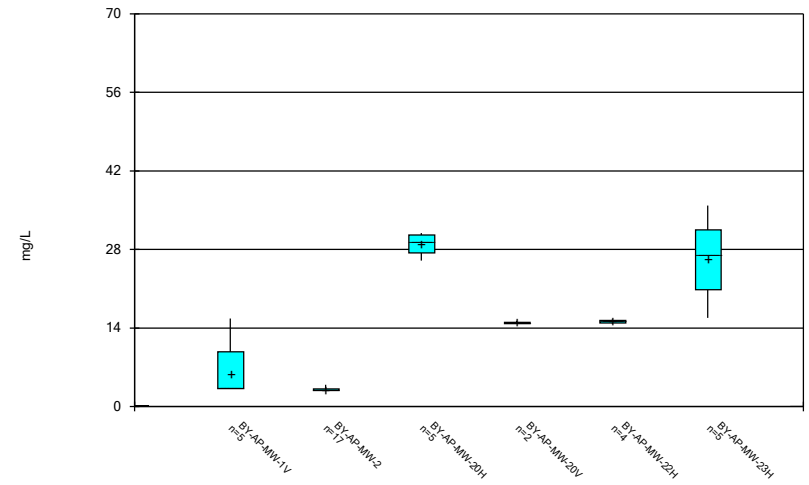
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Box & Whiskers Plot



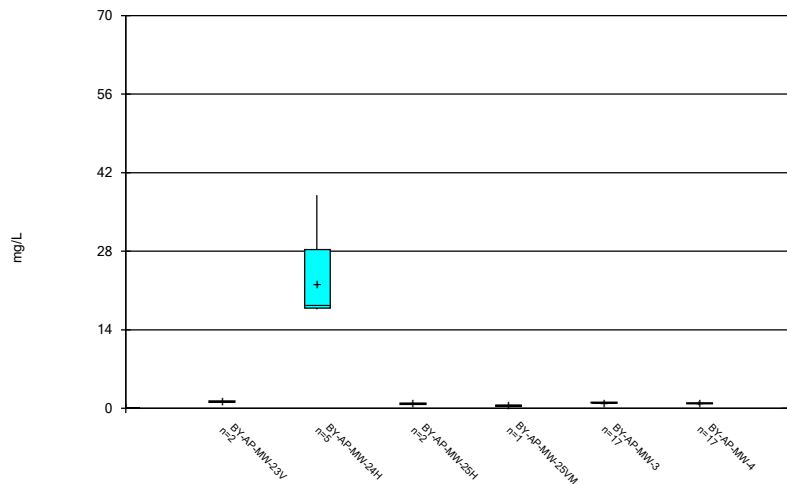
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Box & Whiskers Plot



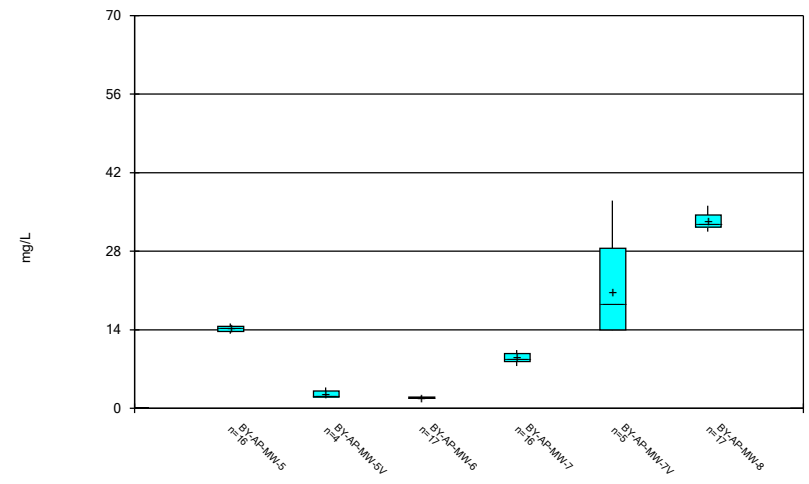
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Box & Whiskers Plot



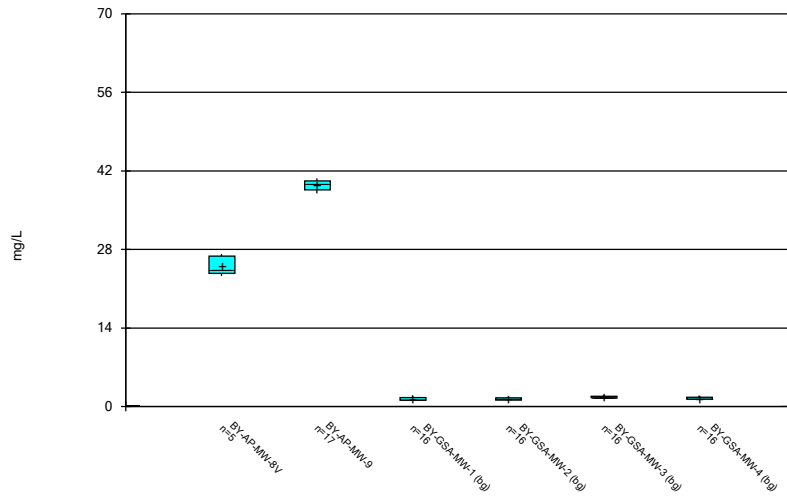
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Box & Whiskers Plot



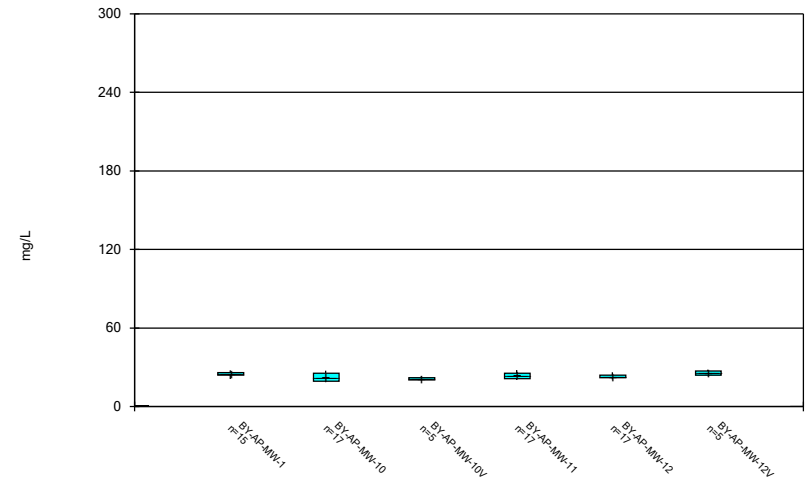
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Box & Whiskers Plot



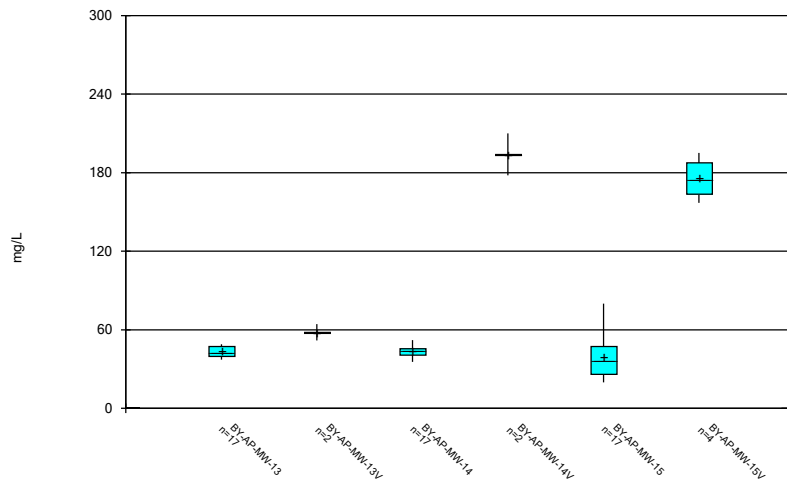
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Box & Whiskers Plot



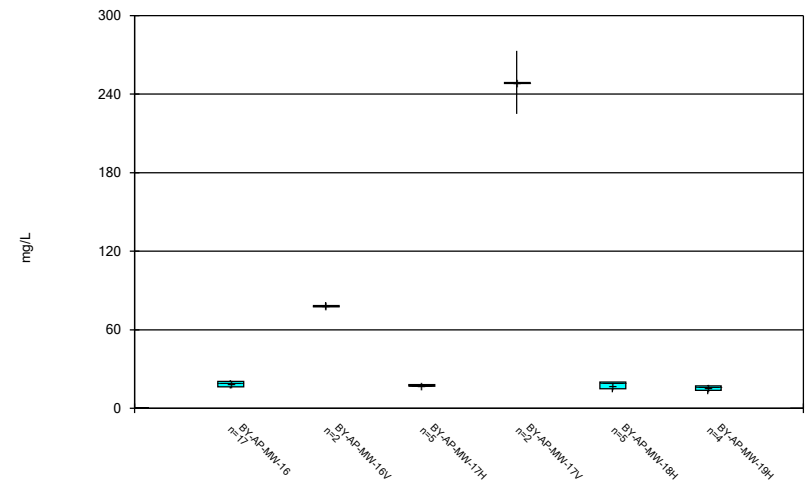
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



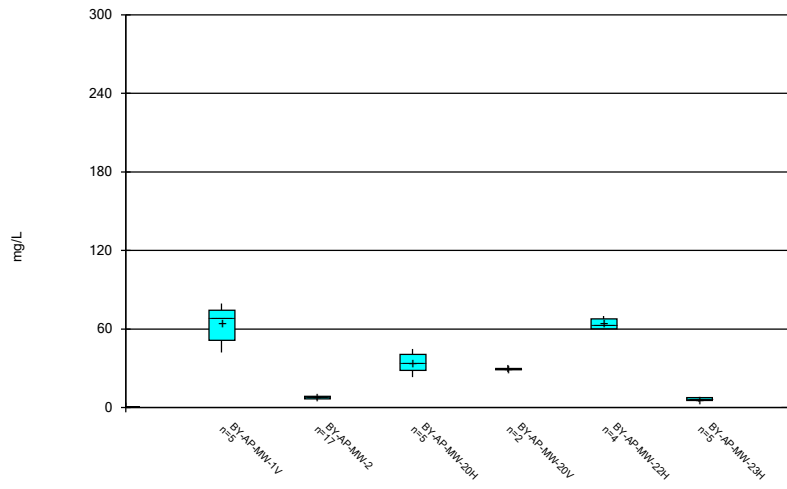
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



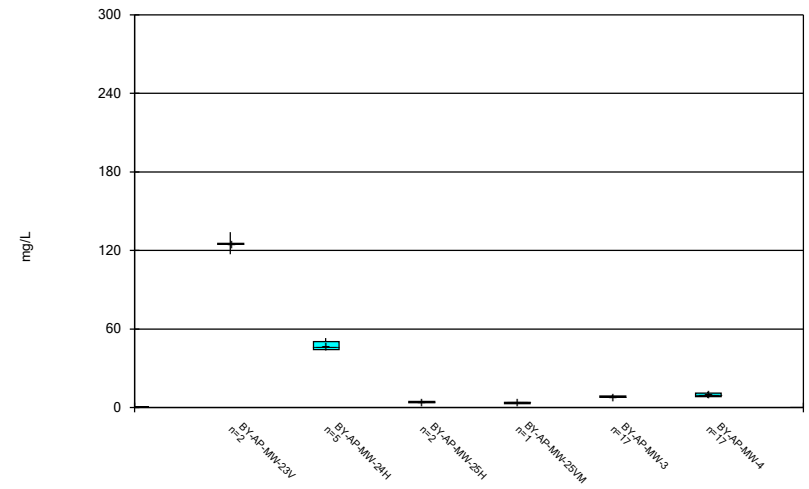
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



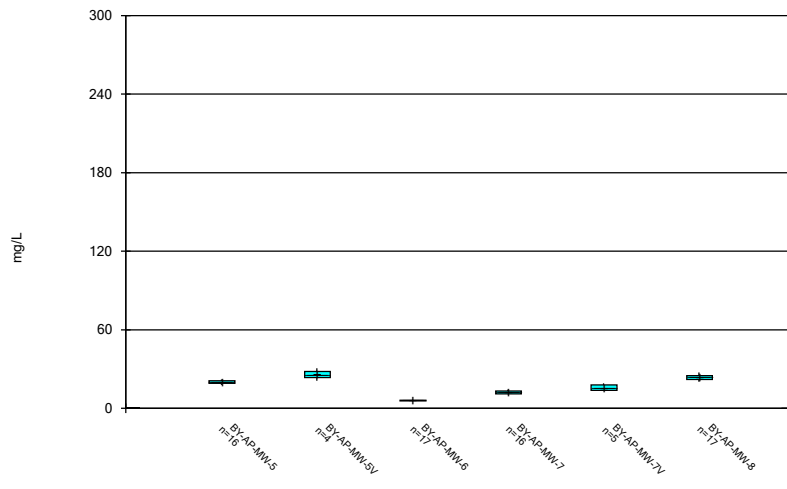
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Box & Whiskers Plot



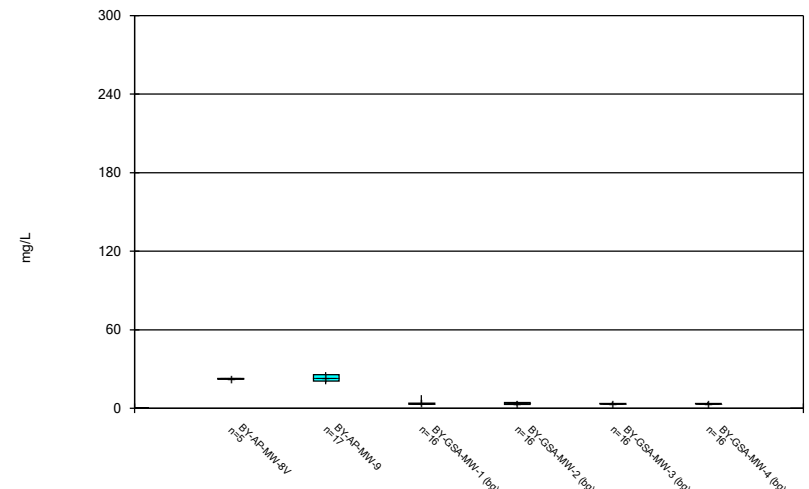
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Box & Whiskers Plot



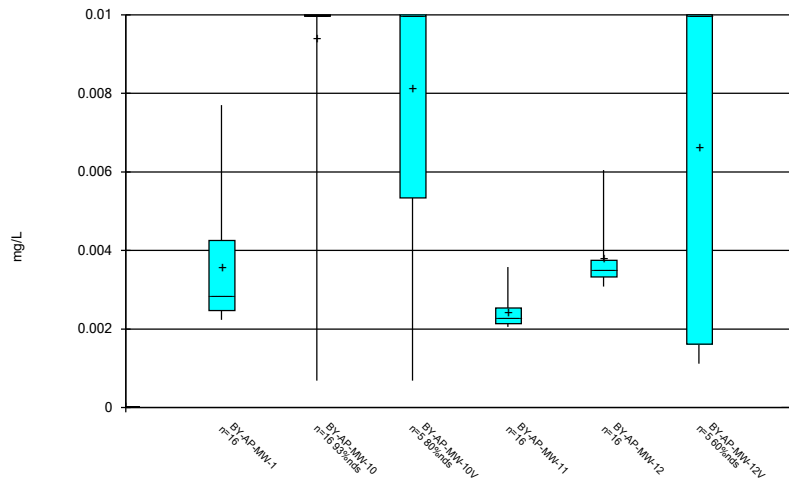
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Box & Whiskers Plot



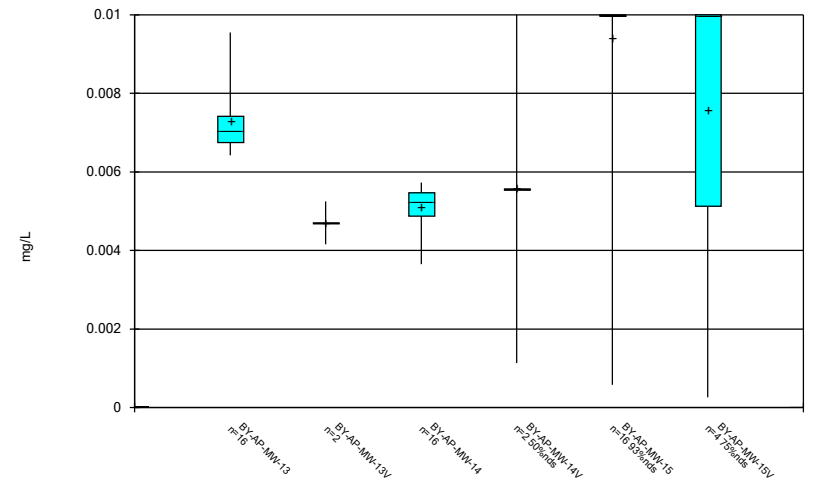
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Box & Whiskers Plot



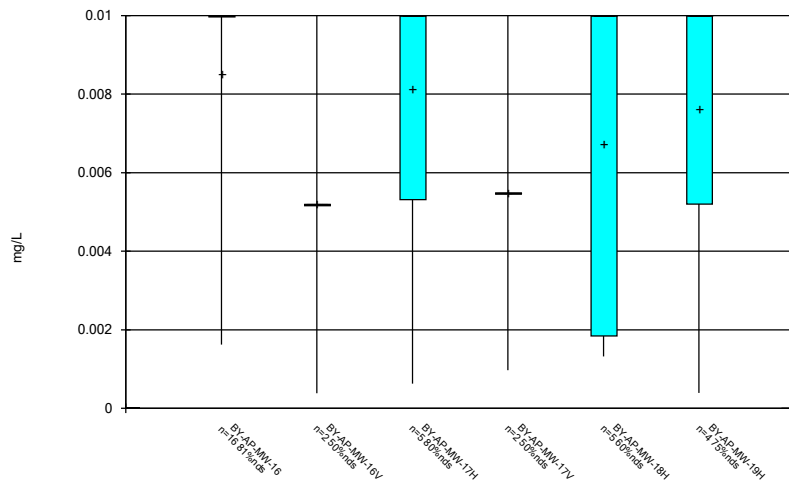
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Box & Whiskers Plot



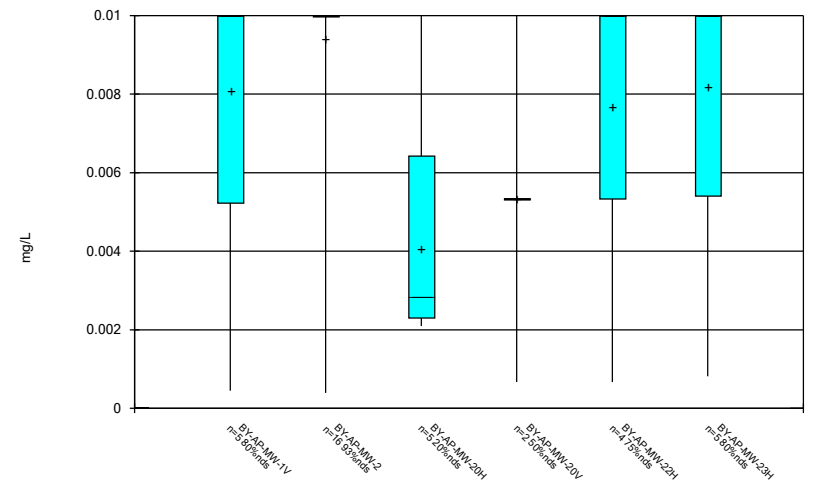
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Box & Whiskers Plot



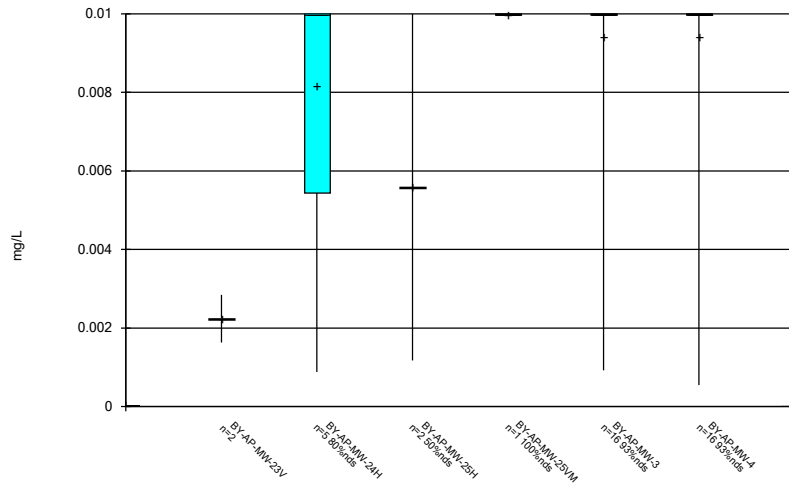
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Box & Whiskers Plot



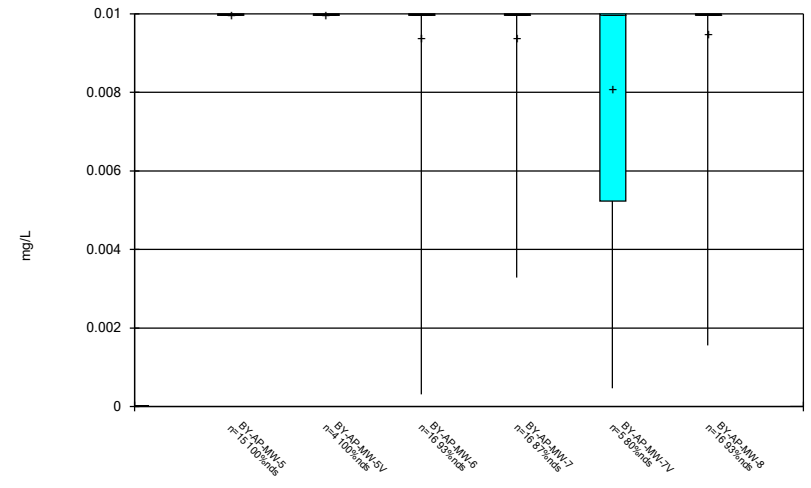
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Box & Whiskers Plot



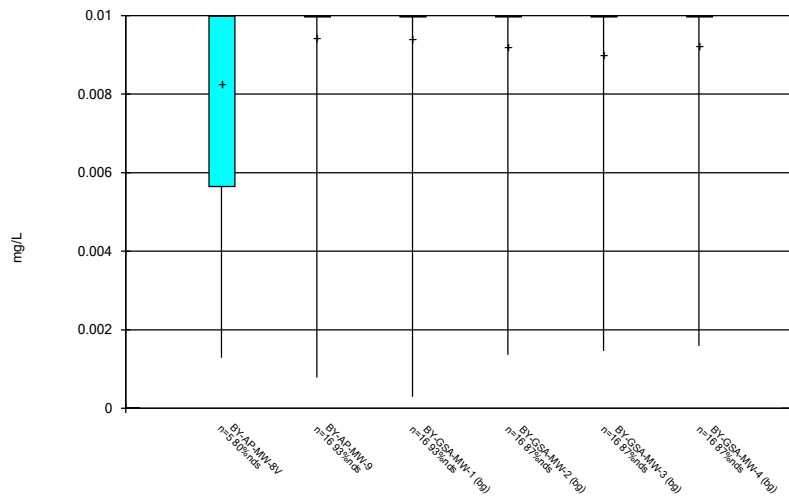
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Box & Whiskers Plot



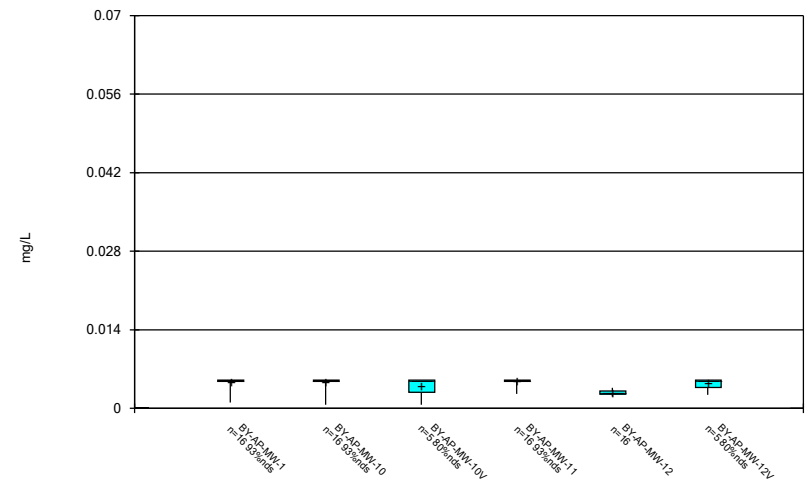
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Box & Whiskers Plot



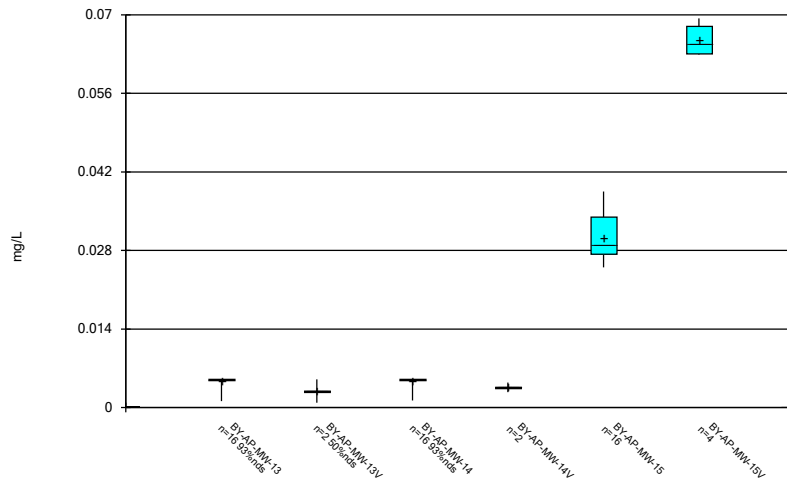
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Box & Whiskers Plot



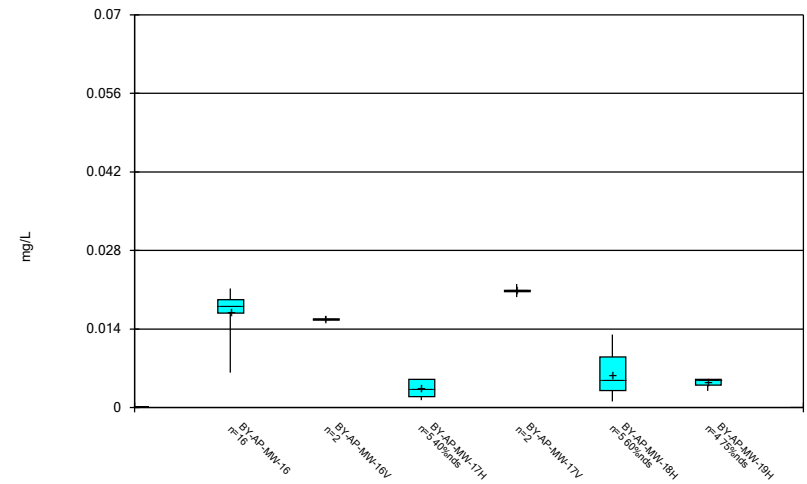
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Box & Whiskers Plot



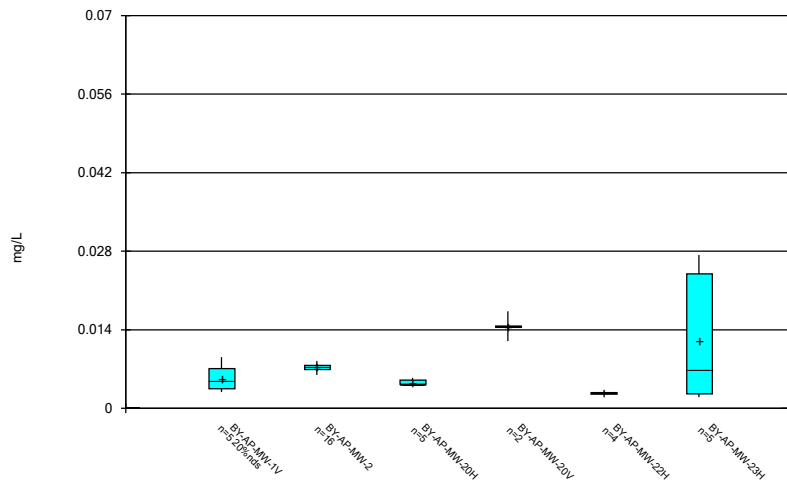
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Box & Whiskers Plot



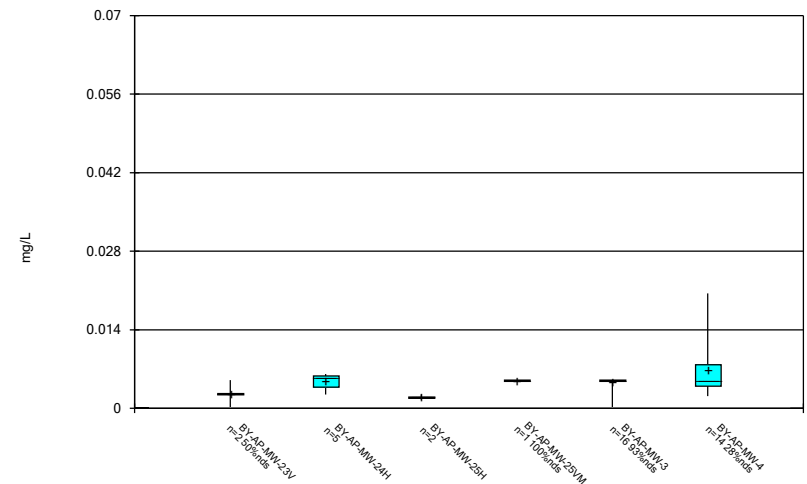
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Box & Whiskers Plot



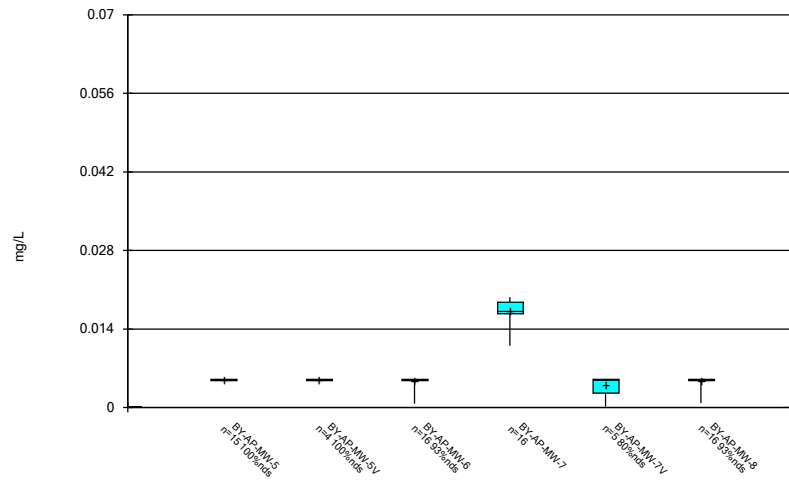
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Box & Whiskers Plot



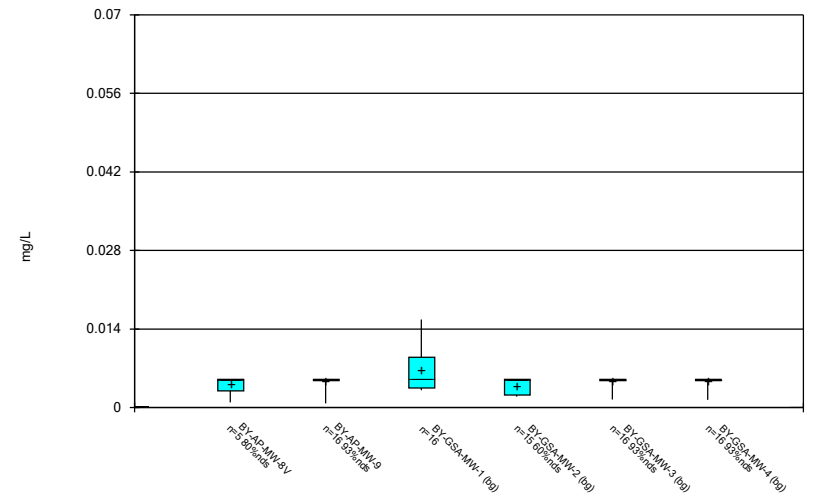
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Box & Whiskers Plot



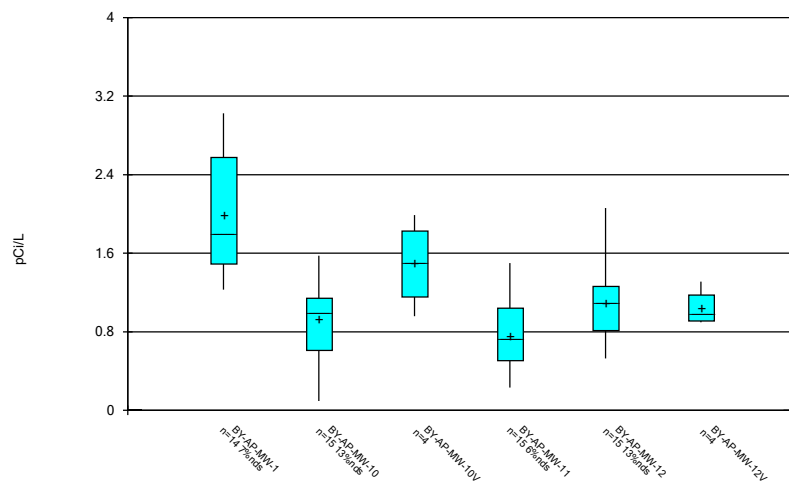
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Box & Whiskers Plot



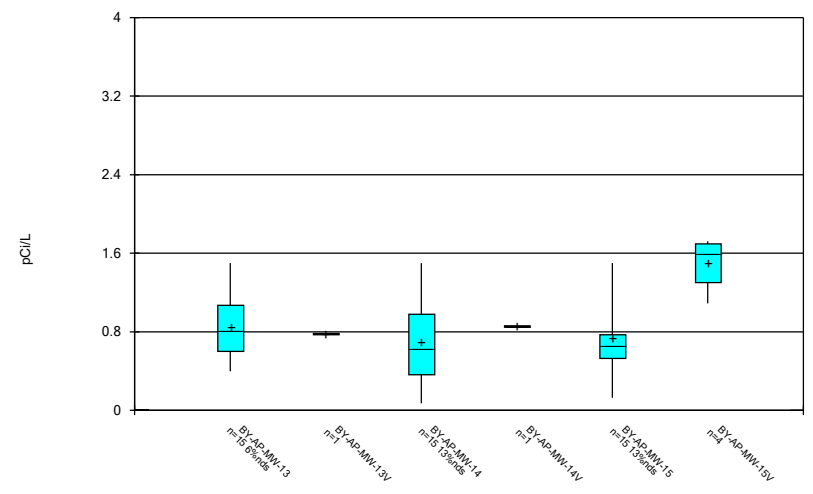
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Box & Whiskers Plot



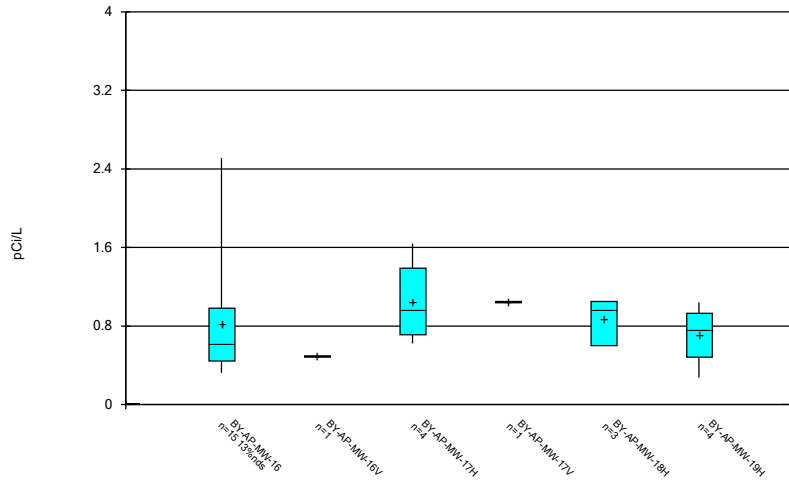
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



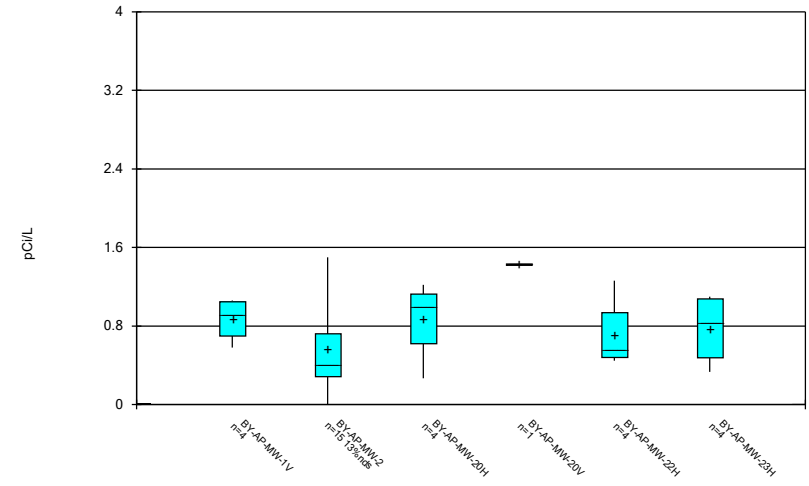
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Box & Whiskers Plot



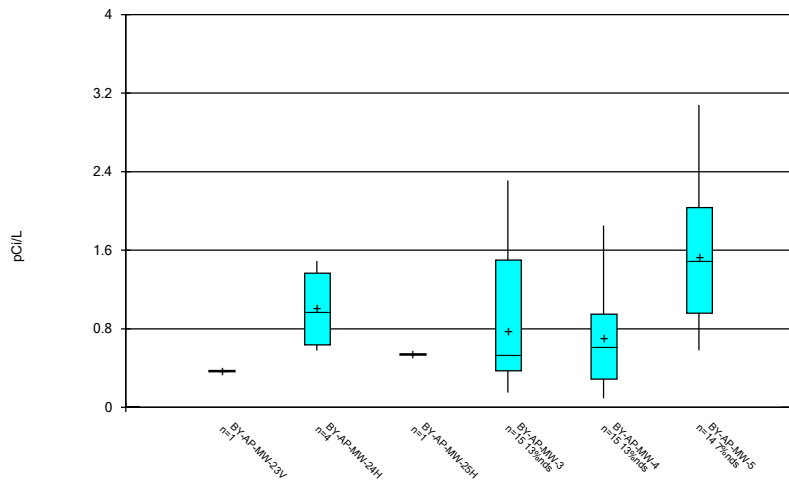
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Box & Whiskers Plot



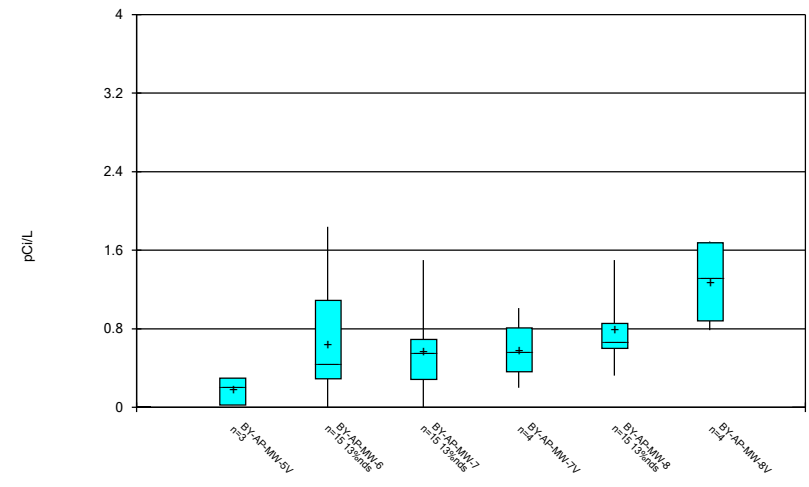
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Box & Whiskers Plot



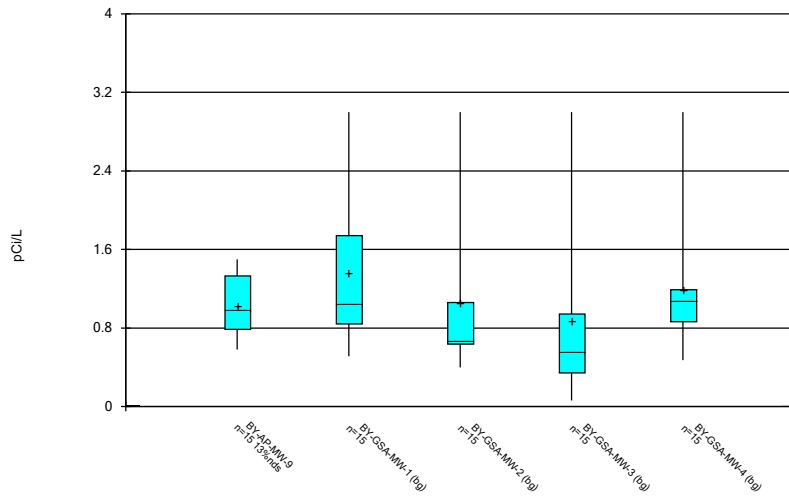
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Box & Whiskers Plot



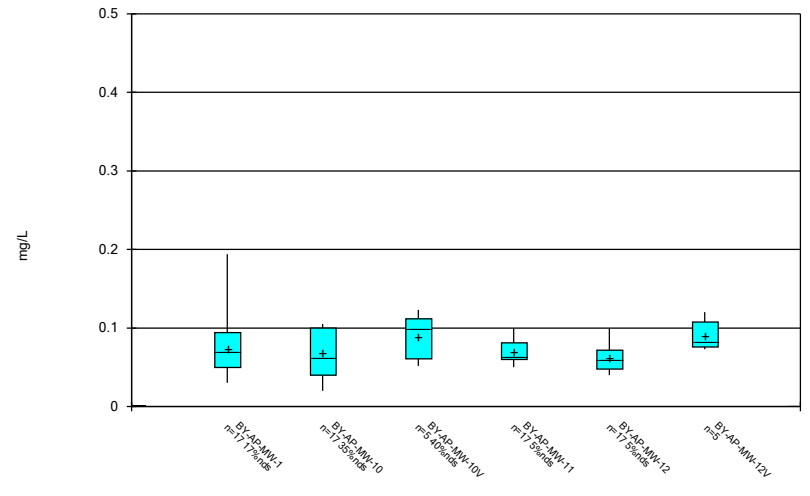
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Box & Whiskers Plot



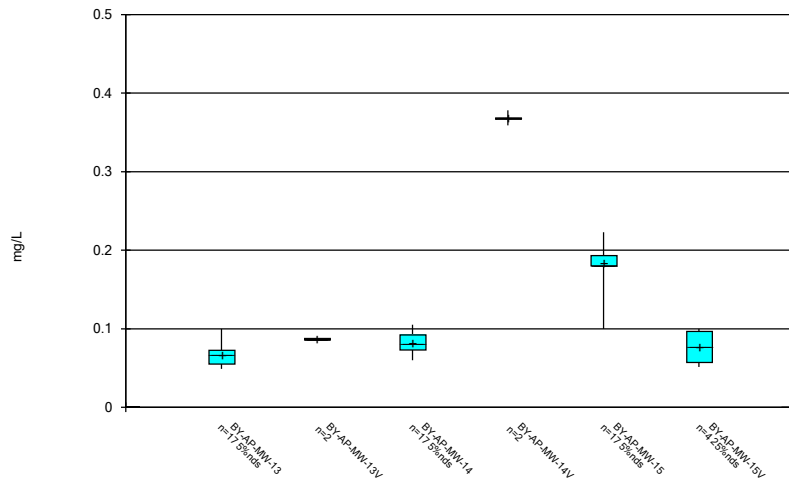
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Box & Whiskers Plot



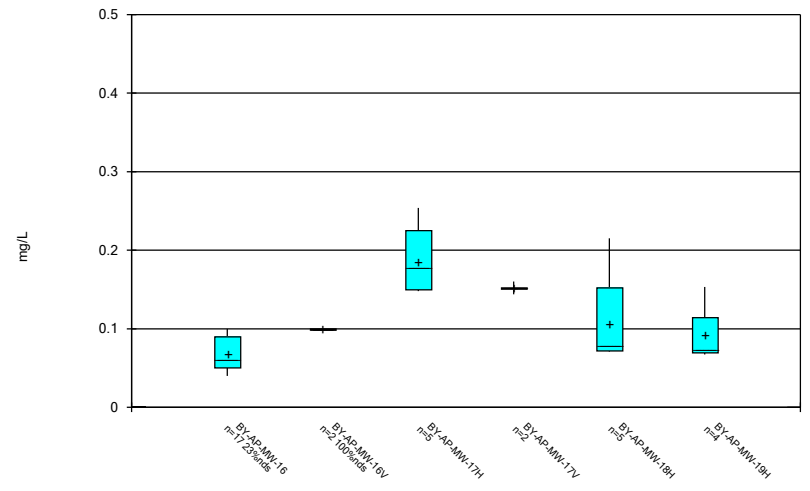
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



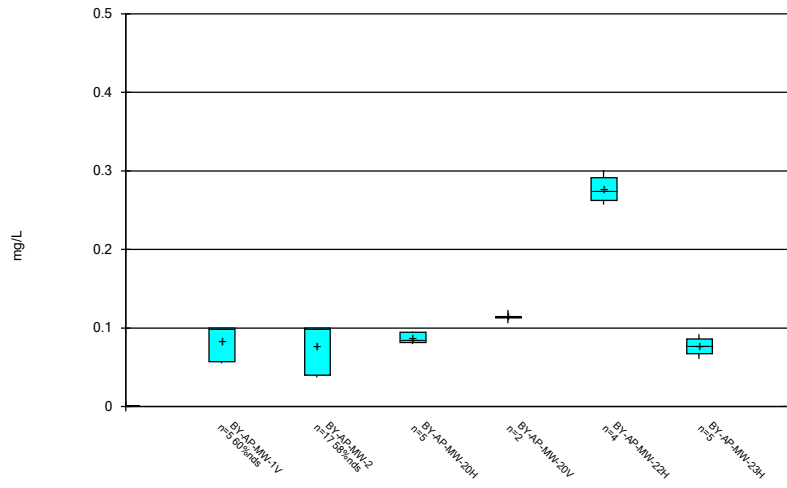
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Box & Whiskers Plot



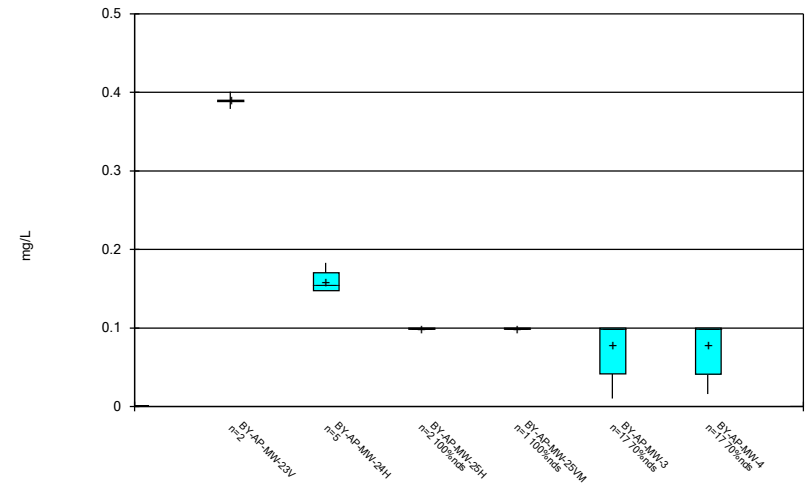
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Box & Whiskers Plot



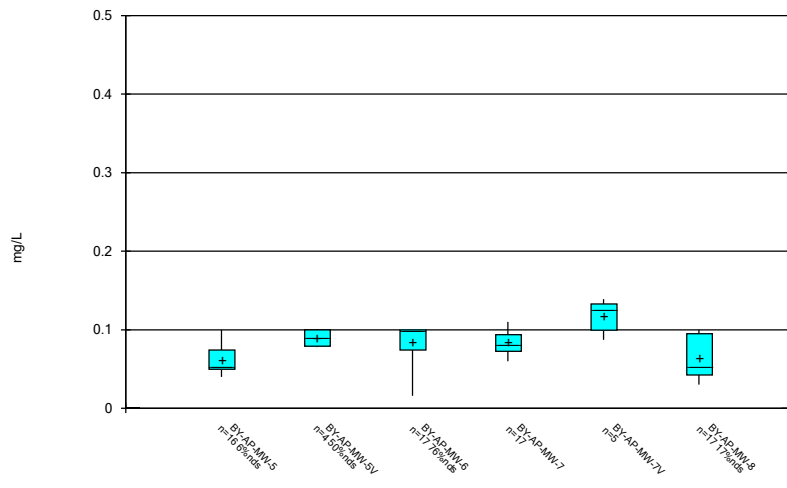
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Box & Whiskers Plot



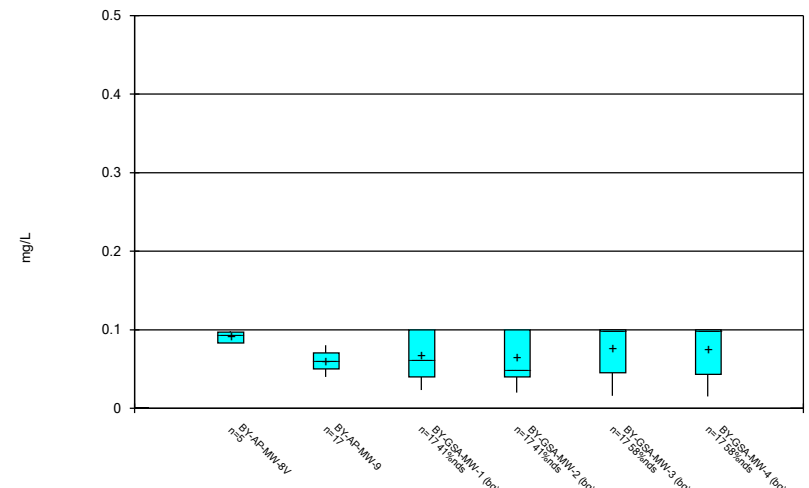
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Box & Whiskers Plot



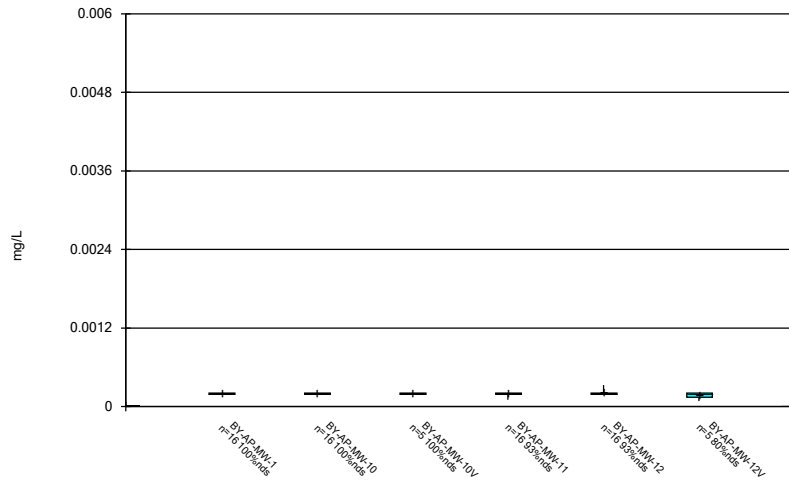
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Box & Whiskers Plot



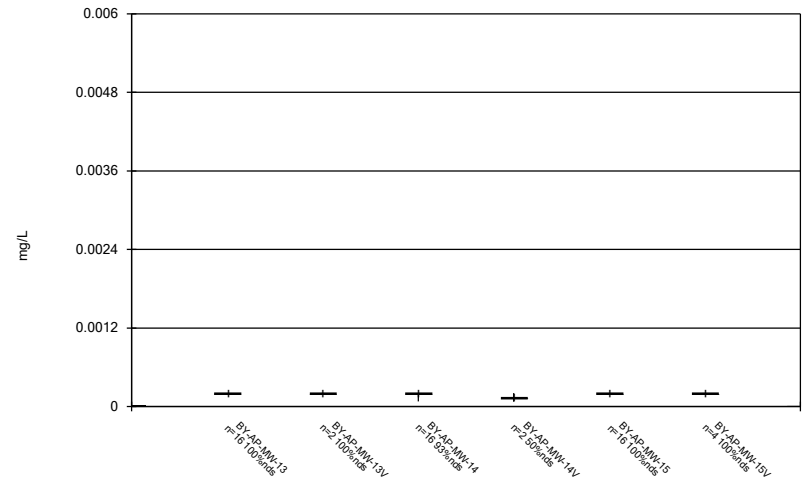
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Box & Whiskers Plot



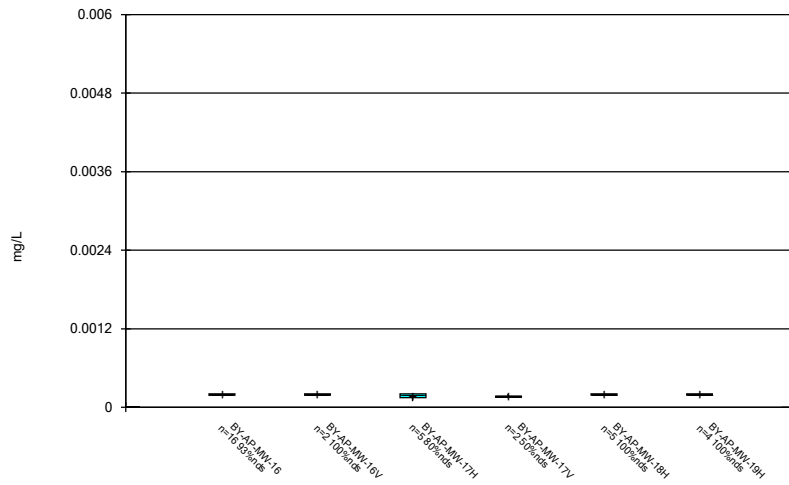
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Box & Whiskers Plot



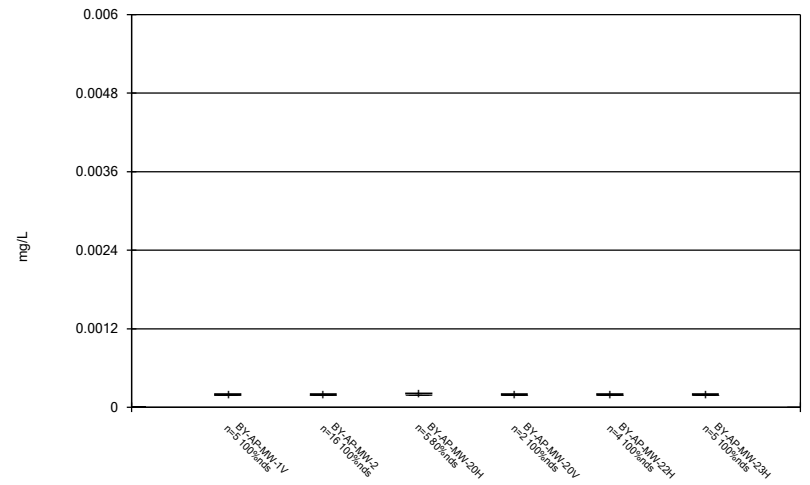
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Box & Whiskers Plot



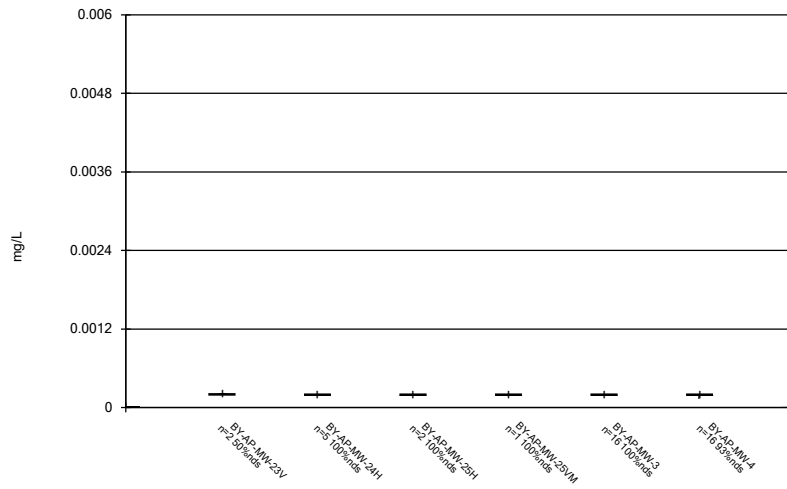
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Box & Whiskers Plot



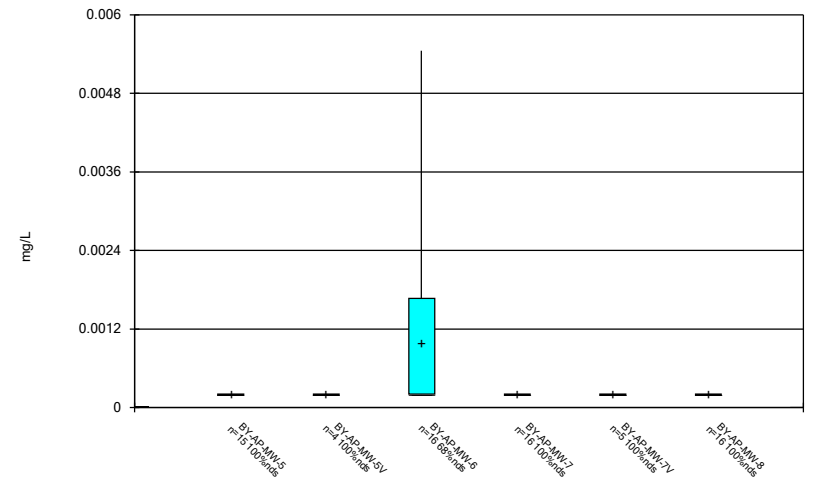
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Box & Whiskers Plot



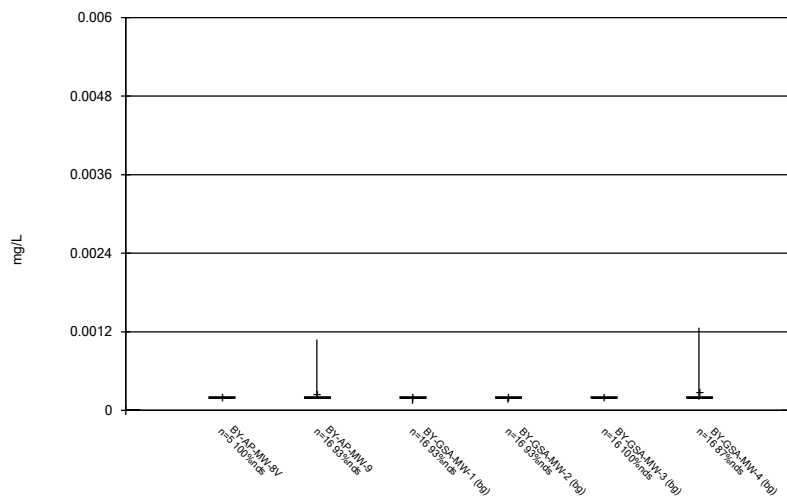
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Box & Whiskers Plot



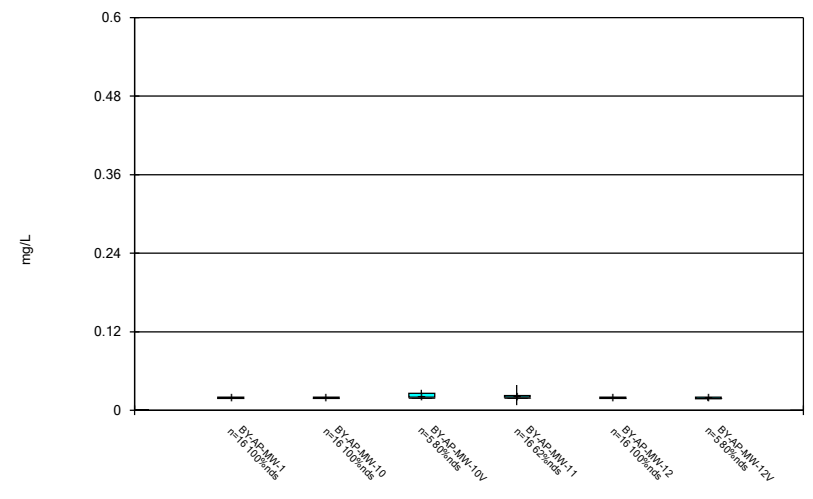
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Box & Whiskers Plot



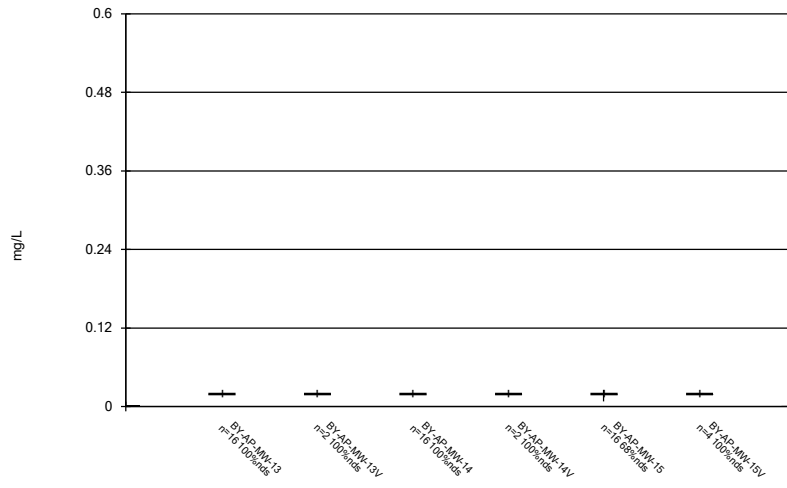
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Box & Whiskers Plot



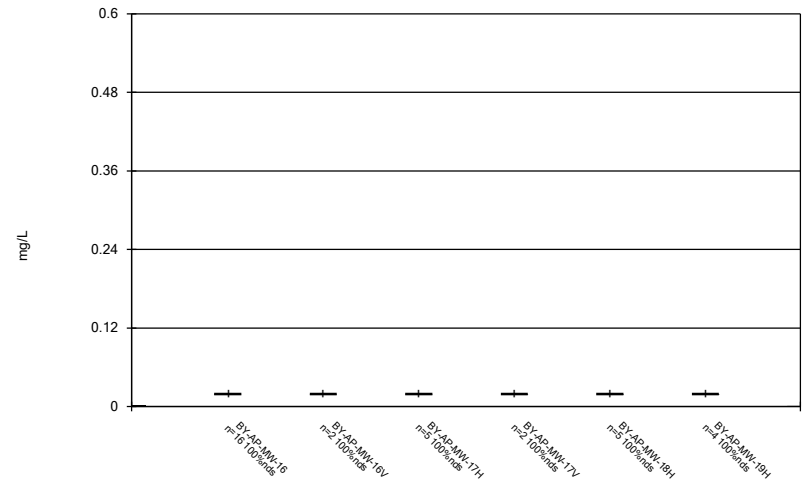
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Box & Whiskers Plot



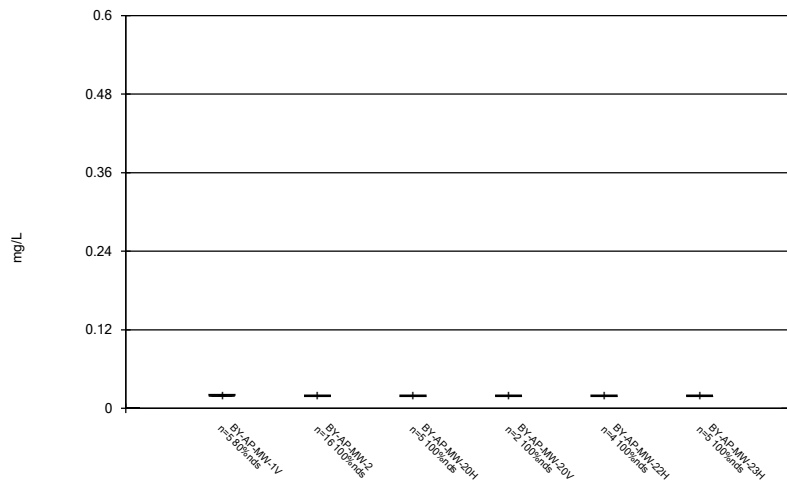
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Box & Whiskers Plot



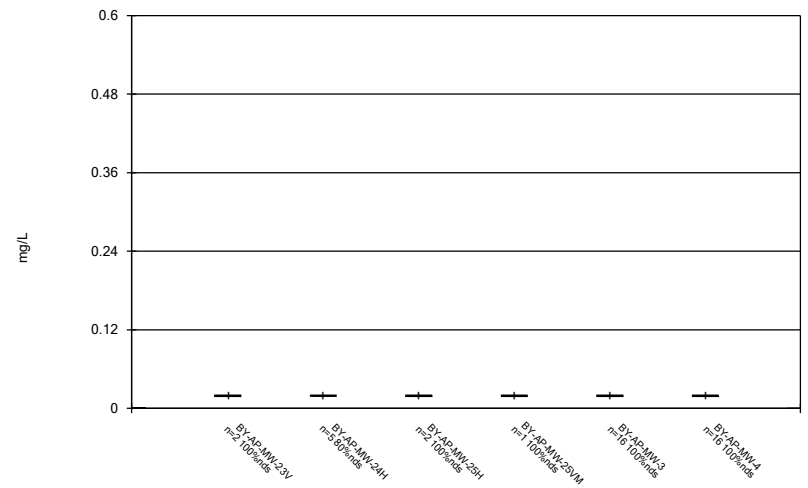
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Box & Whiskers Plot



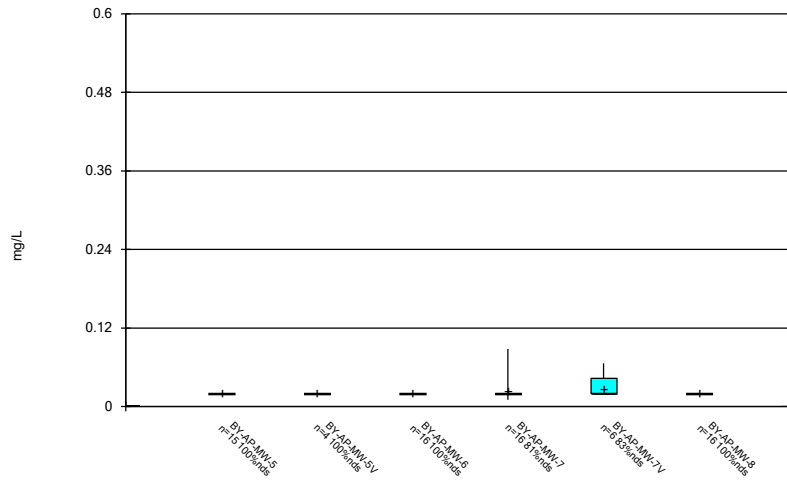
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



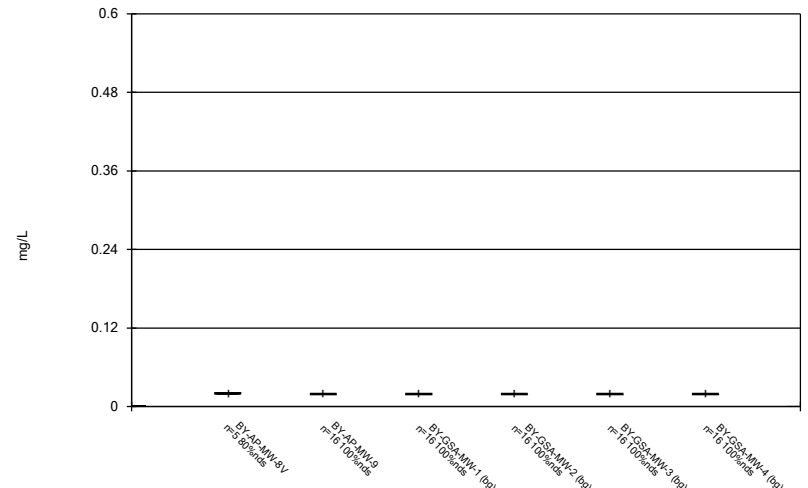
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



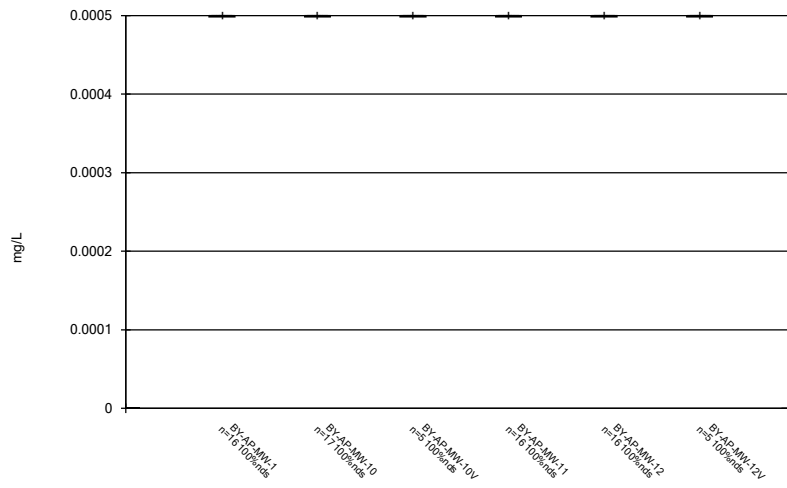
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



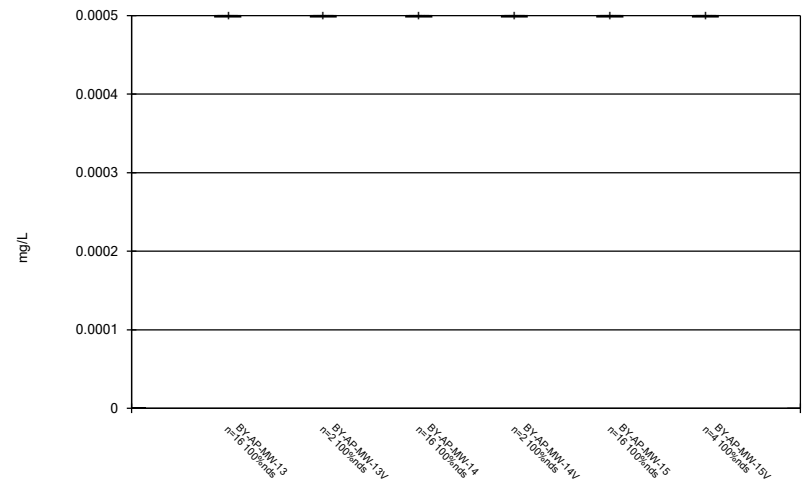
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



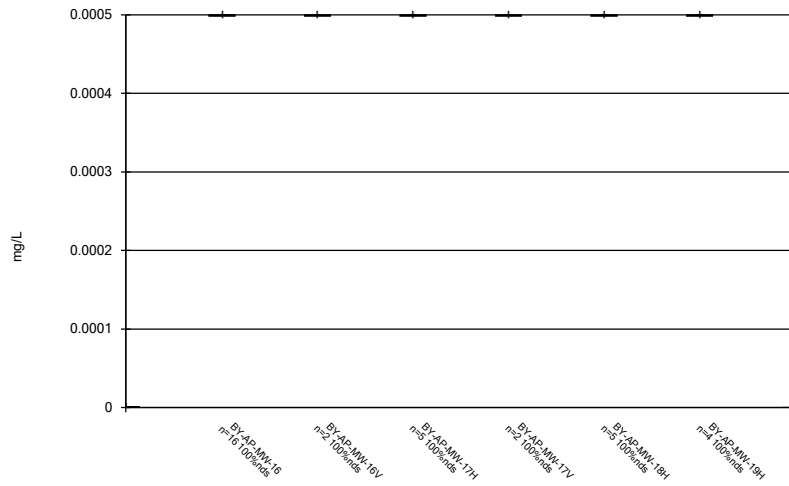
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



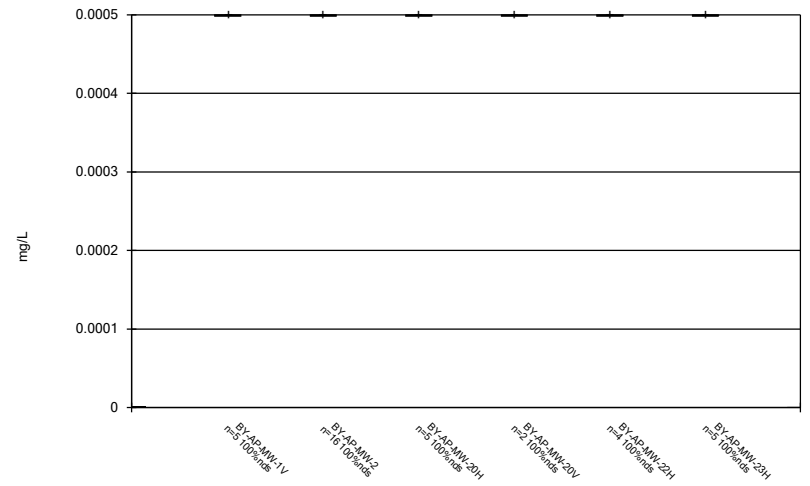
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Box & Whiskers Plot



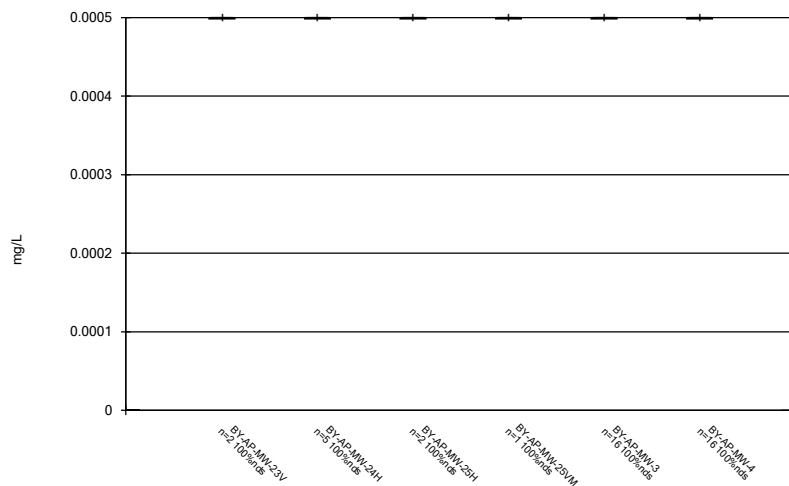
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Box & Whiskers Plot



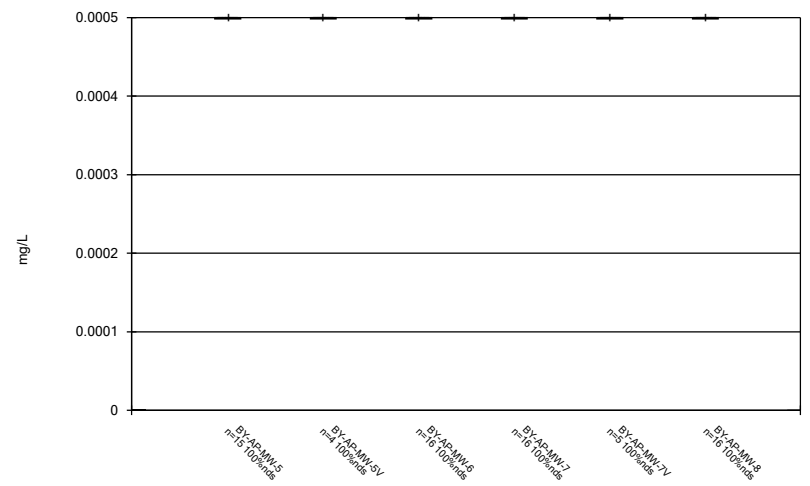
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



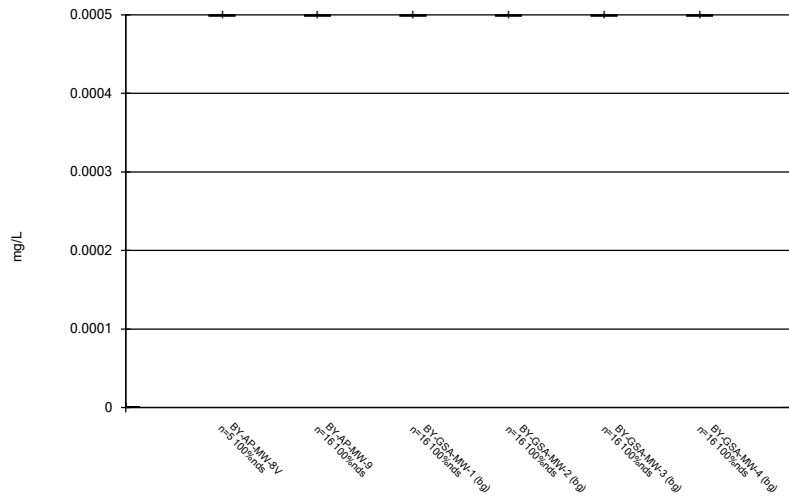
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



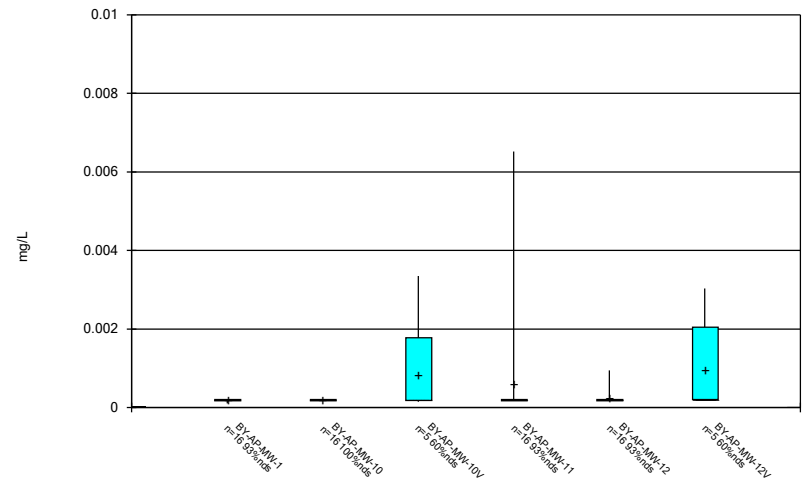
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



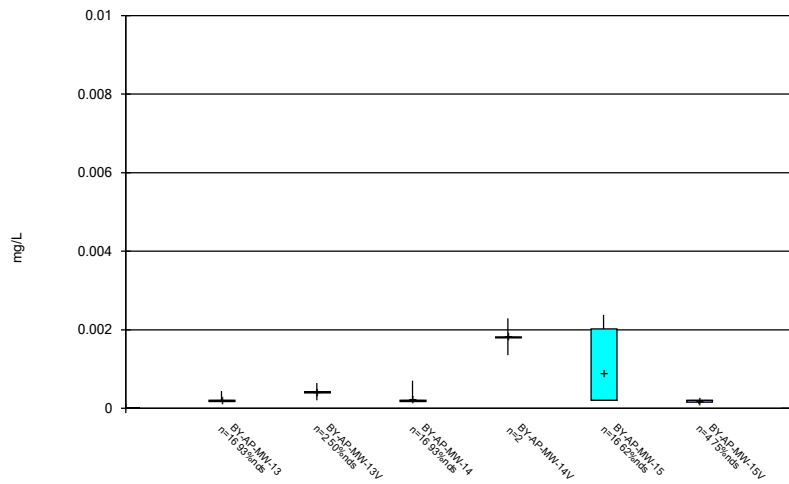
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



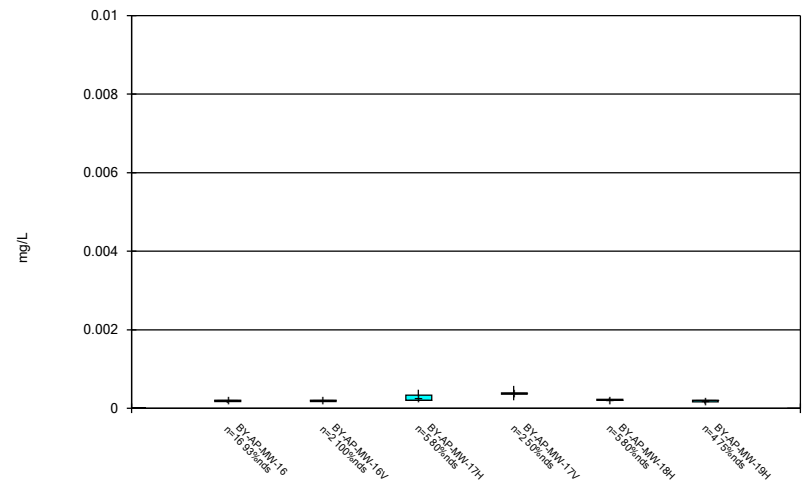
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



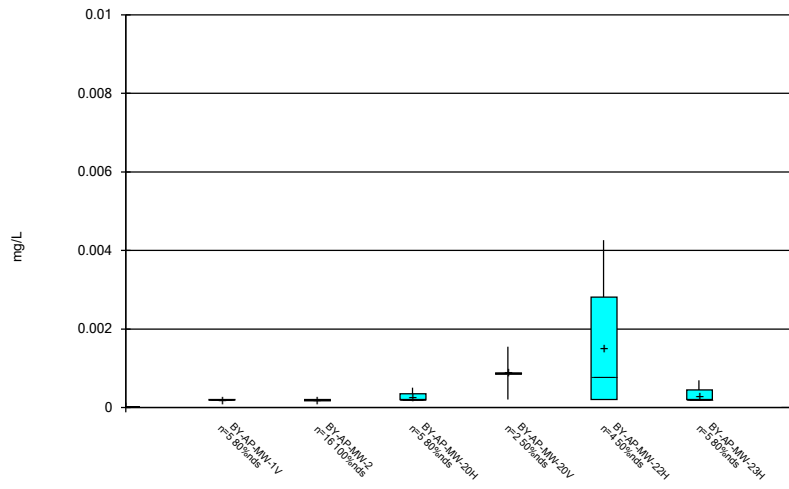
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Box & Whiskers Plot



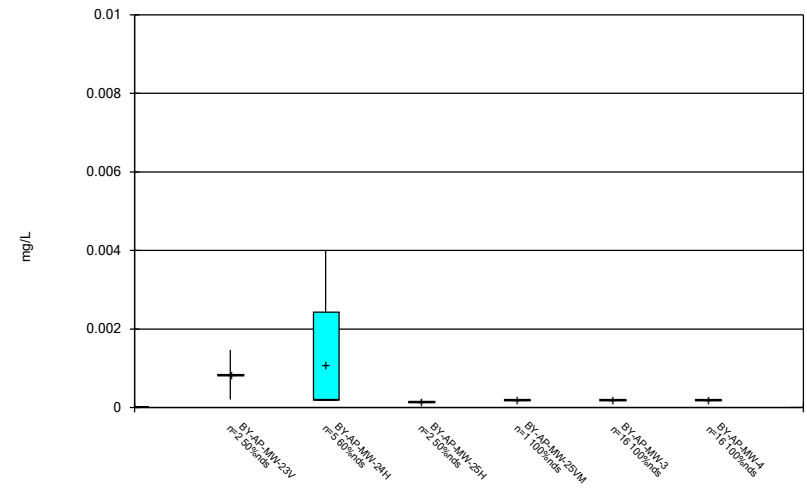
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Box & Whiskers Plot



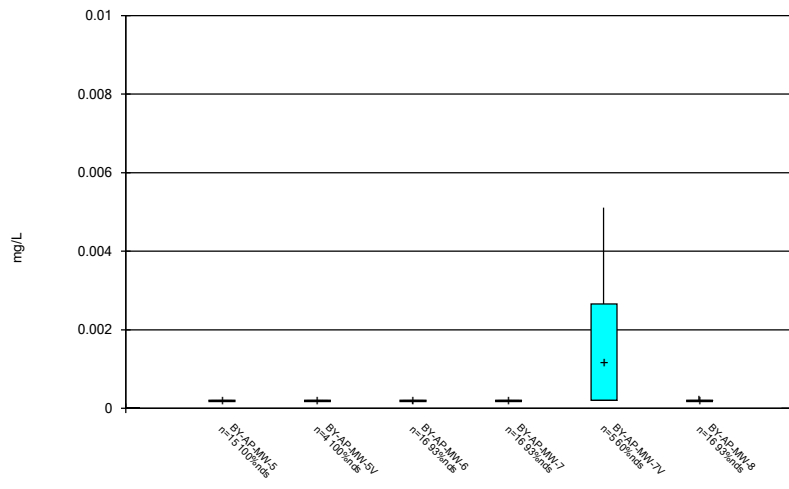
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Box & Whiskers Plot



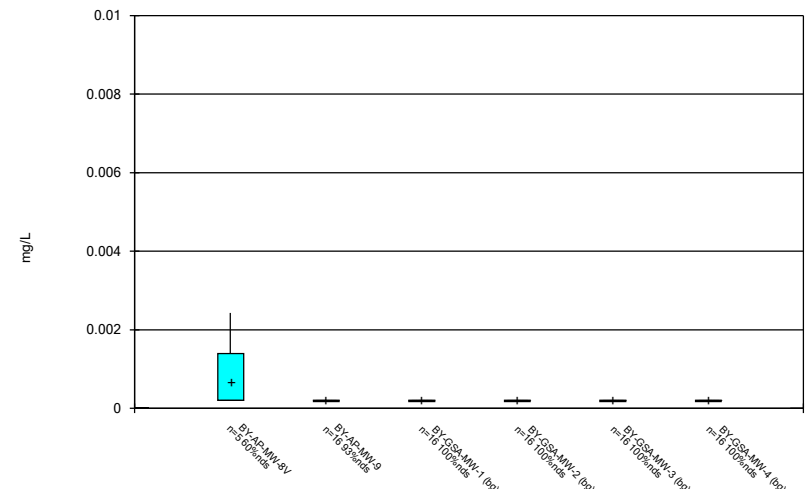
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



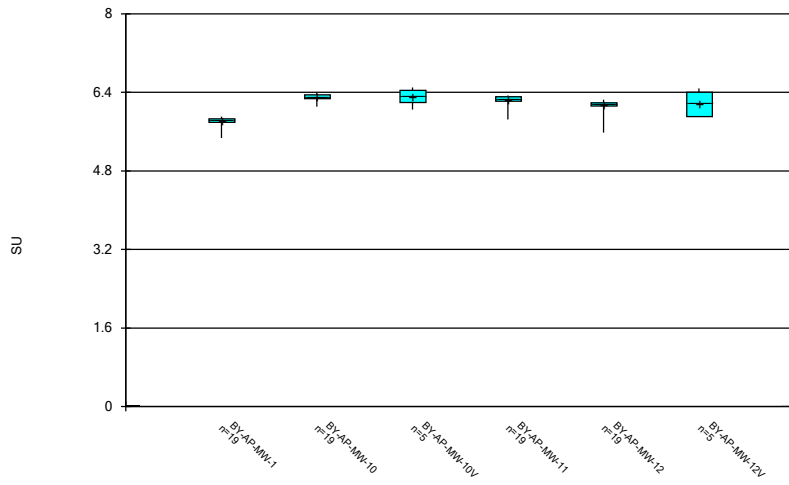
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



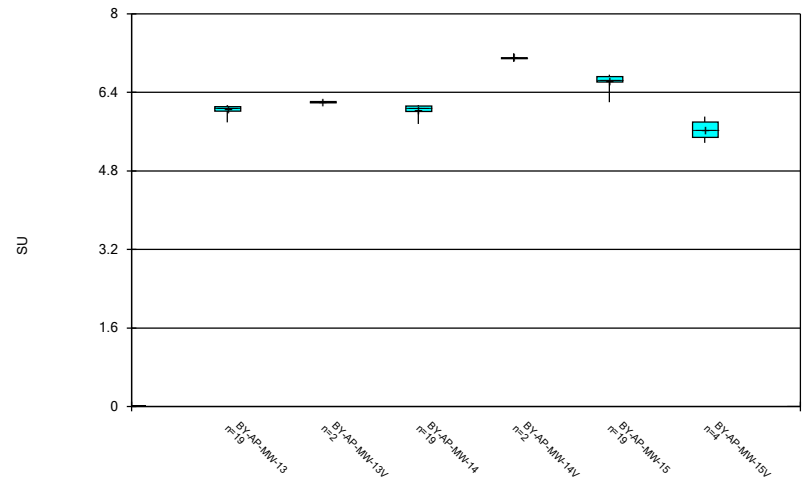
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



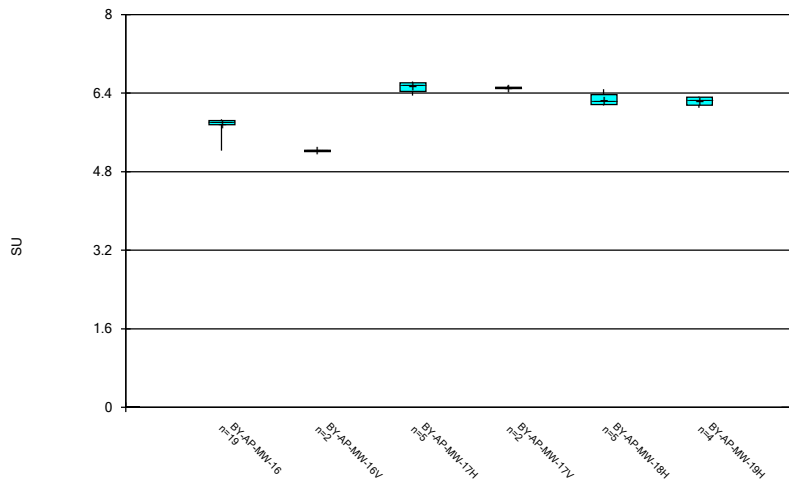
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



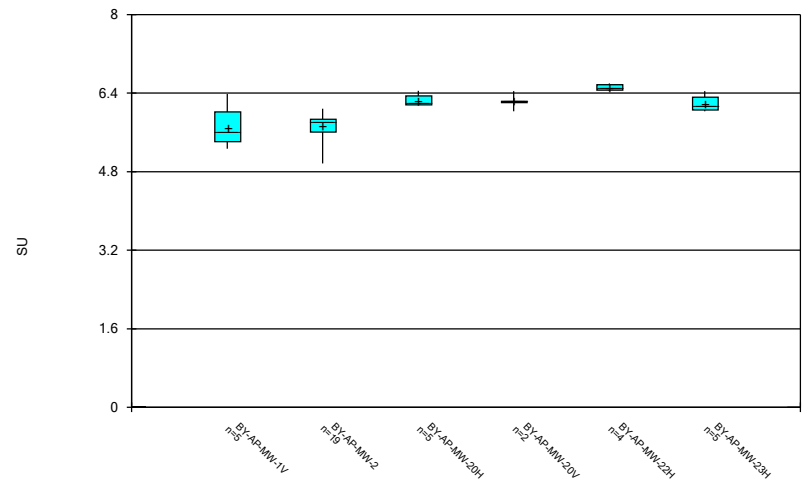
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



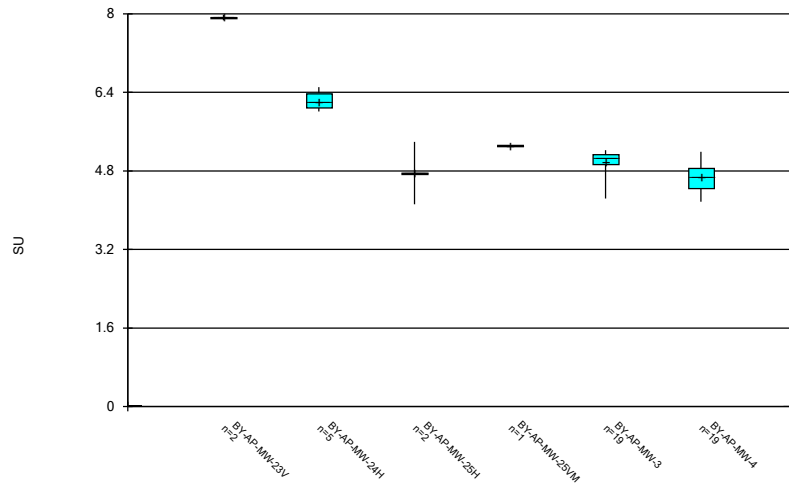
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



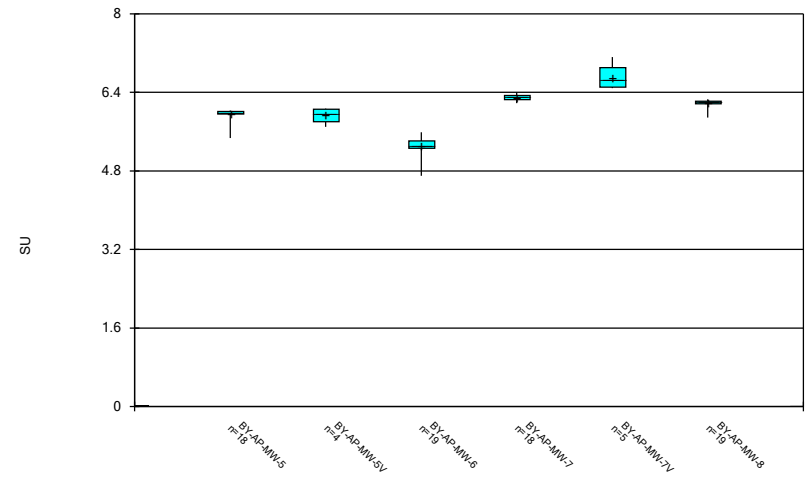
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Box & Whiskers Plot



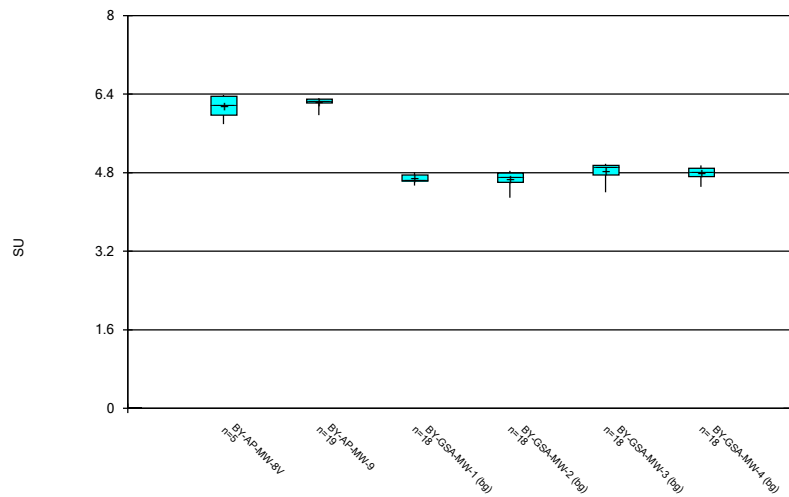
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Box & Whiskers Plot



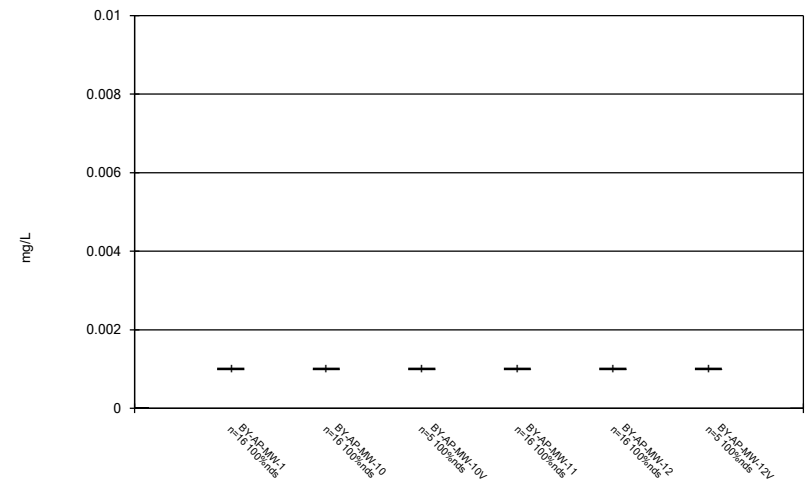
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



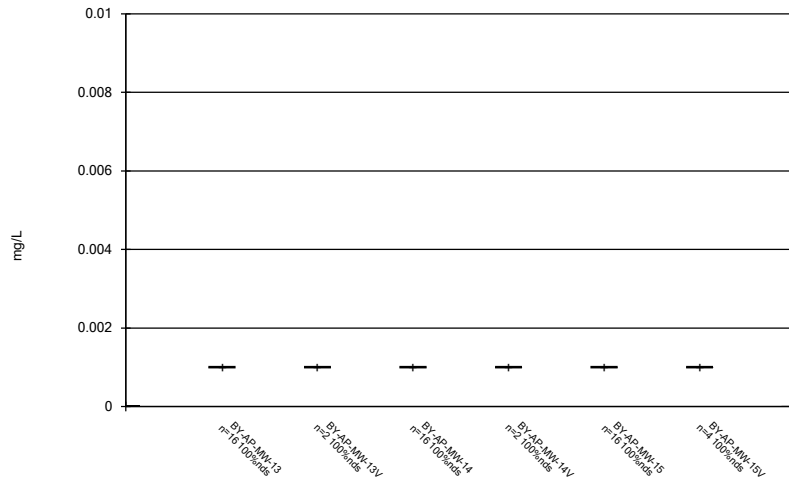
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



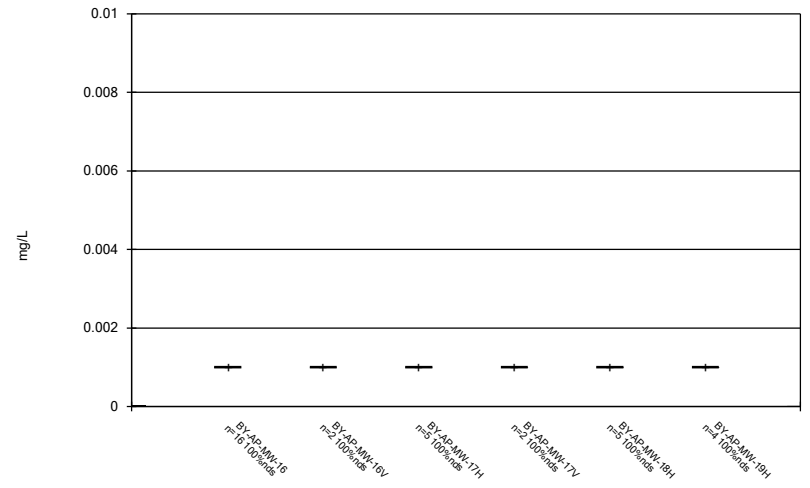
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Box & Whiskers Plot



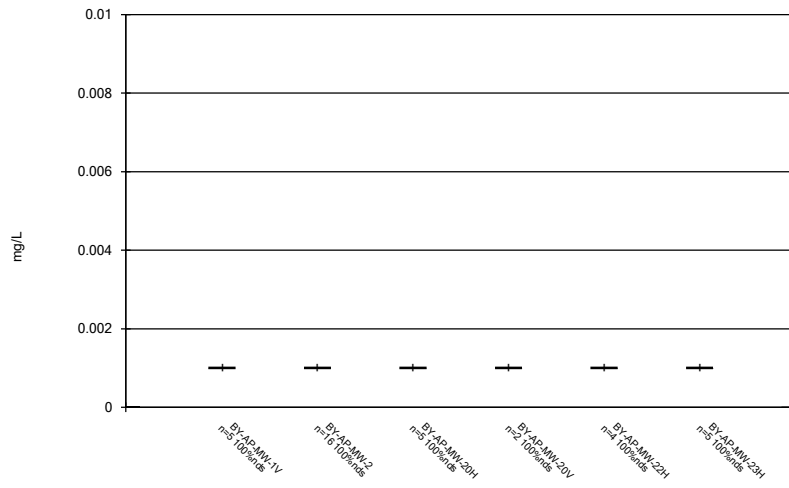
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Box & Whiskers Plot



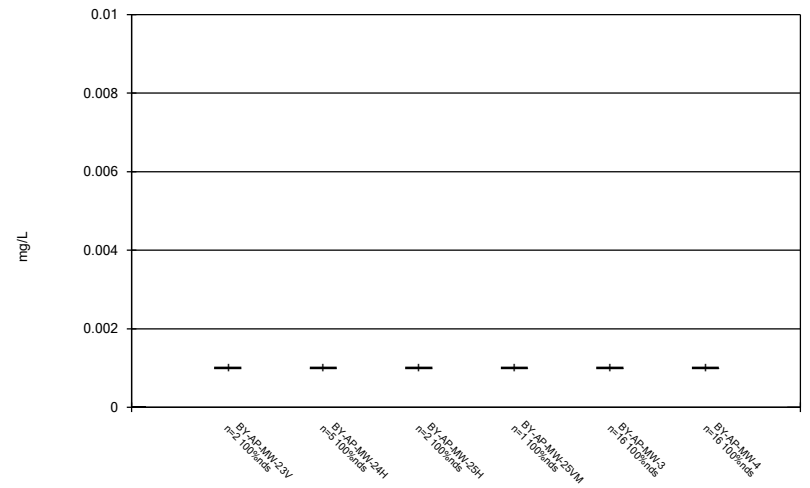
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



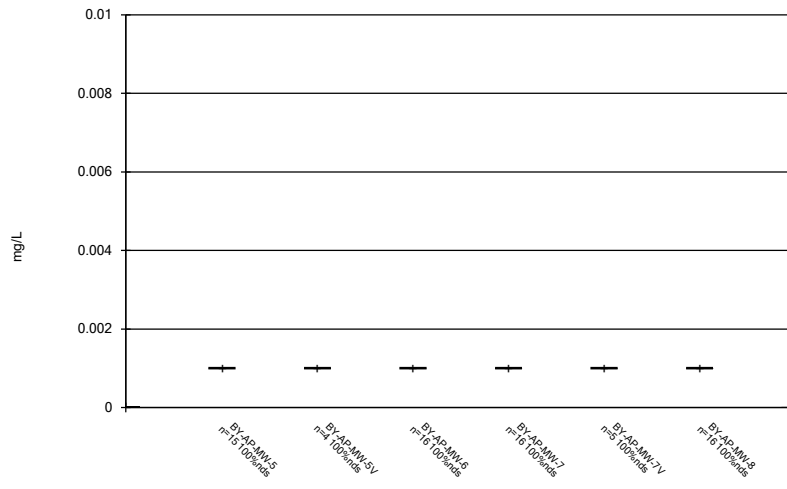
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



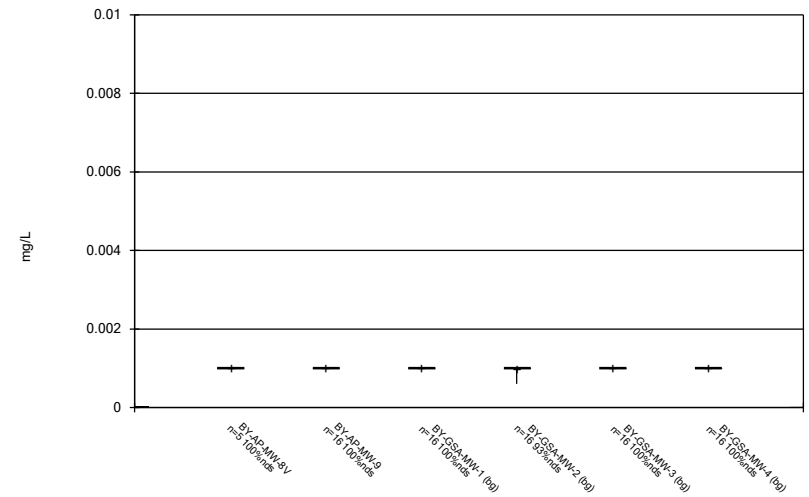
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



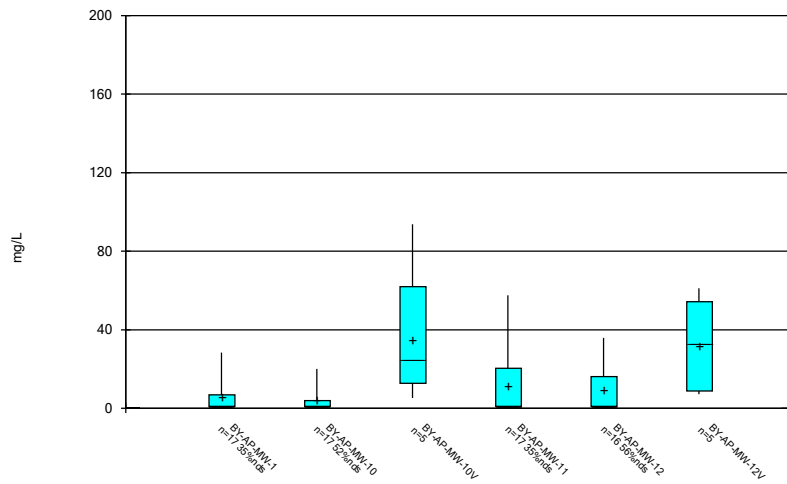
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Box & Whiskers Plot



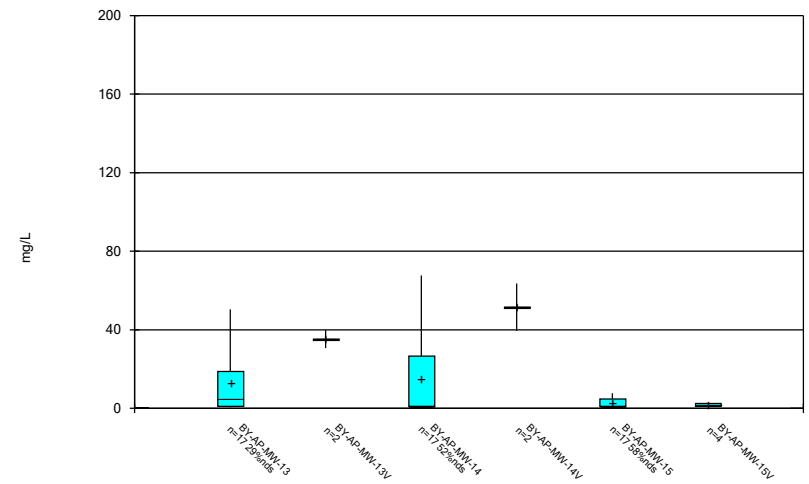
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Box & Whiskers Plot



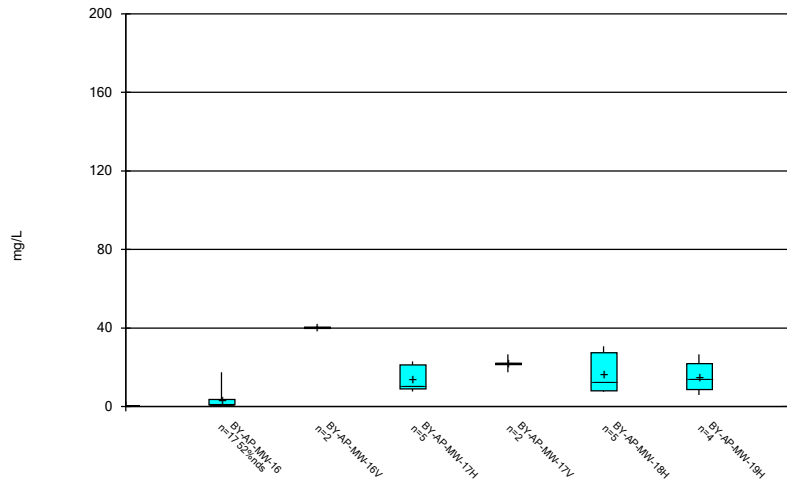
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Box & Whiskers Plot



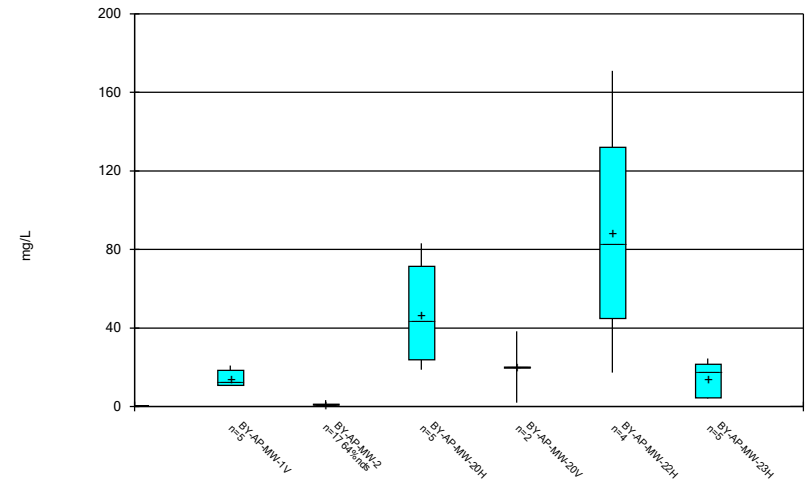
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Box & Whiskers Plot



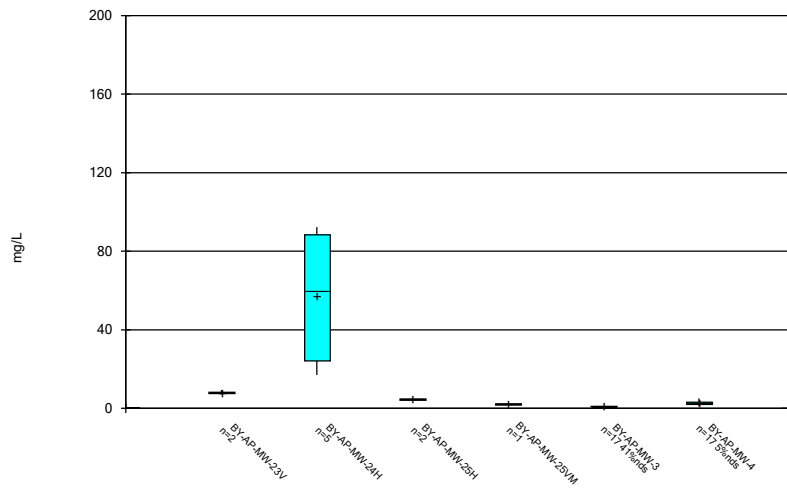
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



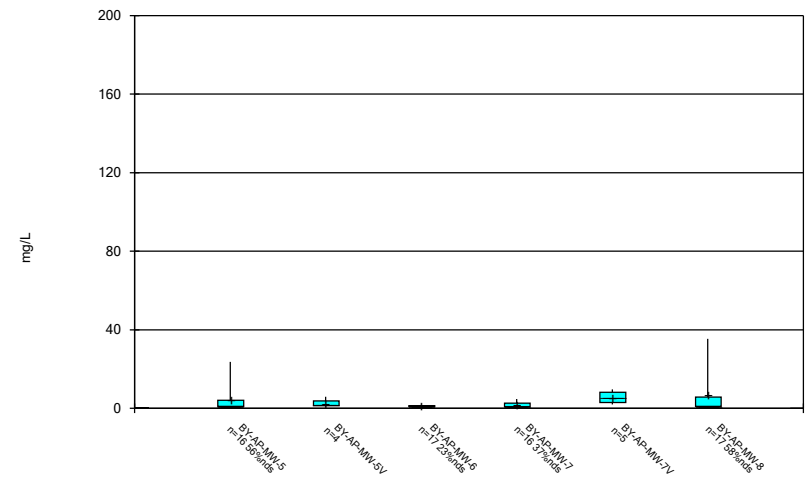
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Box & Whiskers Plot



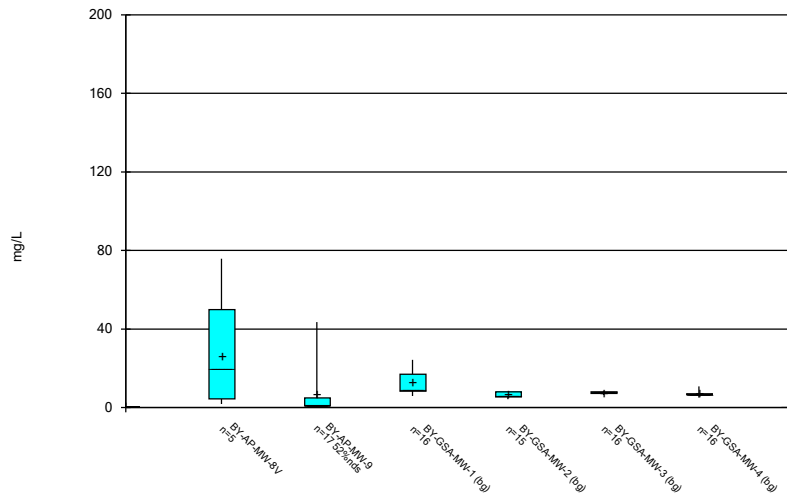
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



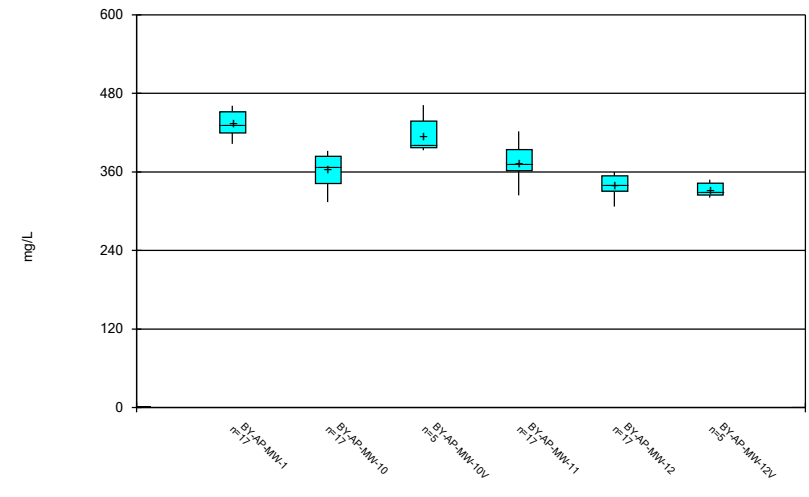
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



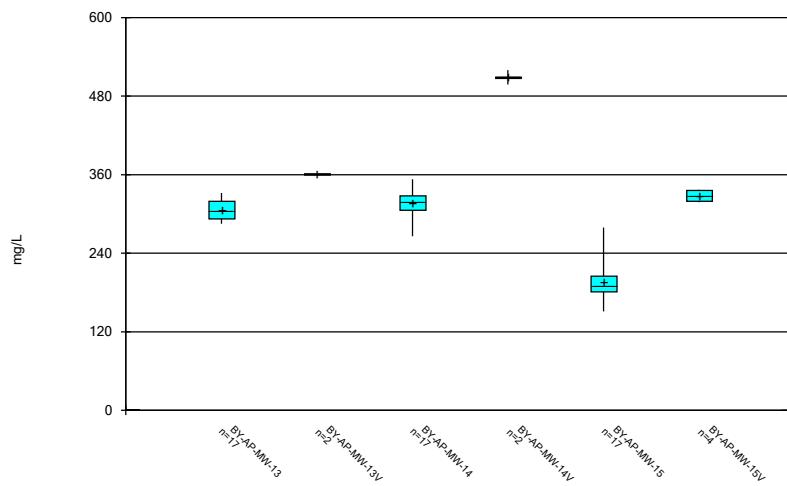
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Box & Whiskers Plot



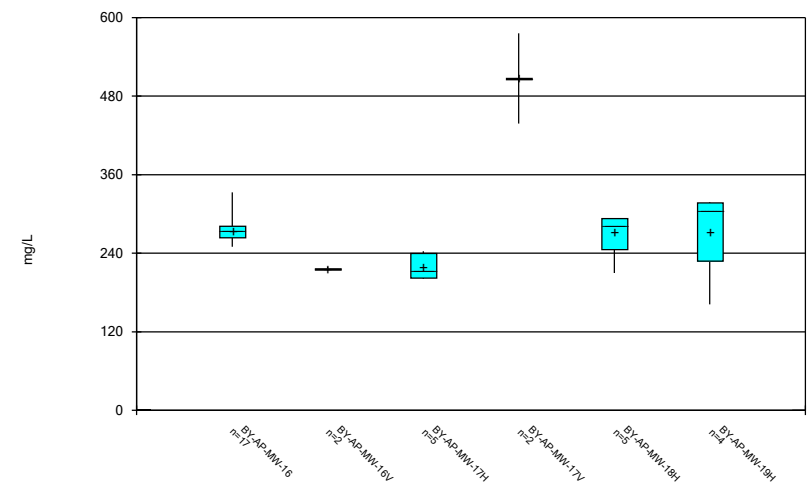
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Box & Whiskers Plot



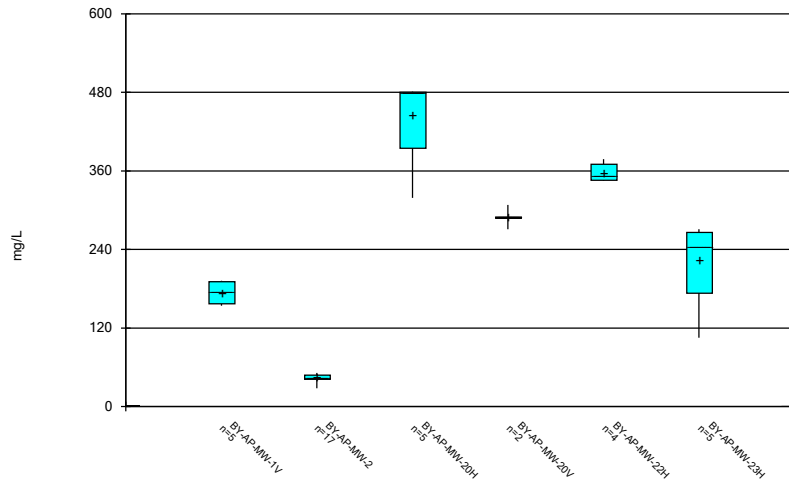
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Box & Whiskers Plot



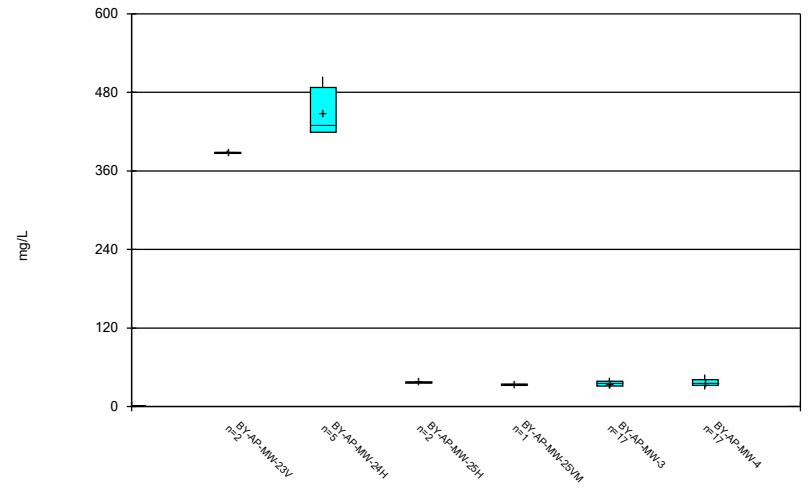
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



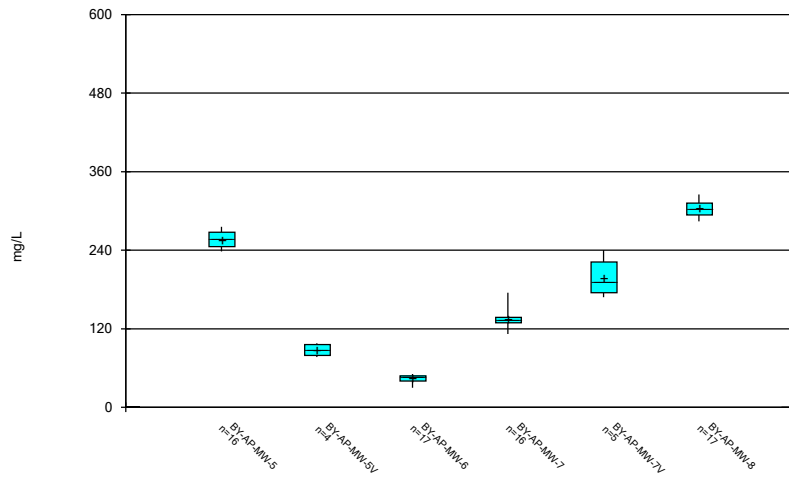
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Box & Whiskers Plot



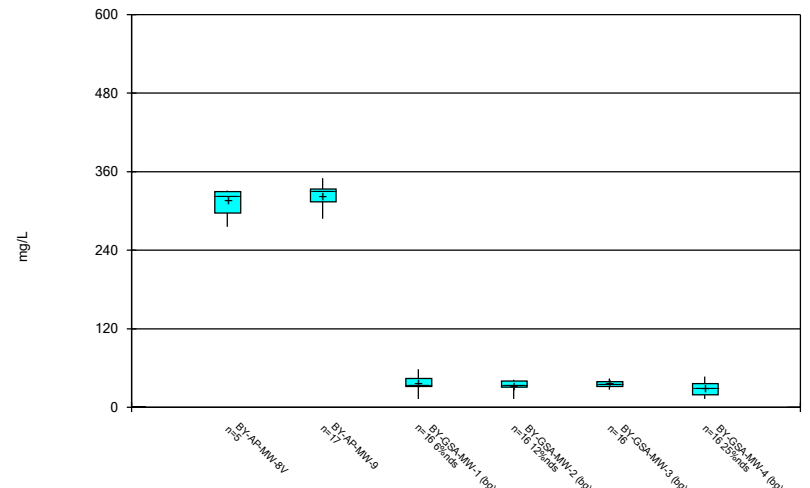
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



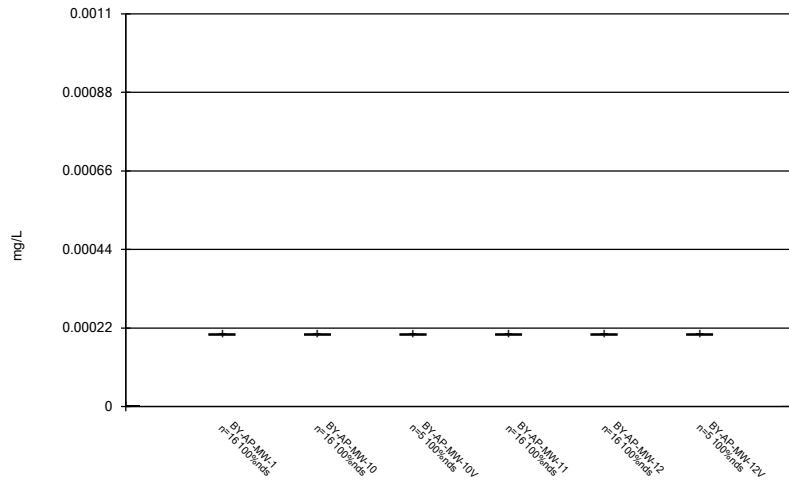
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



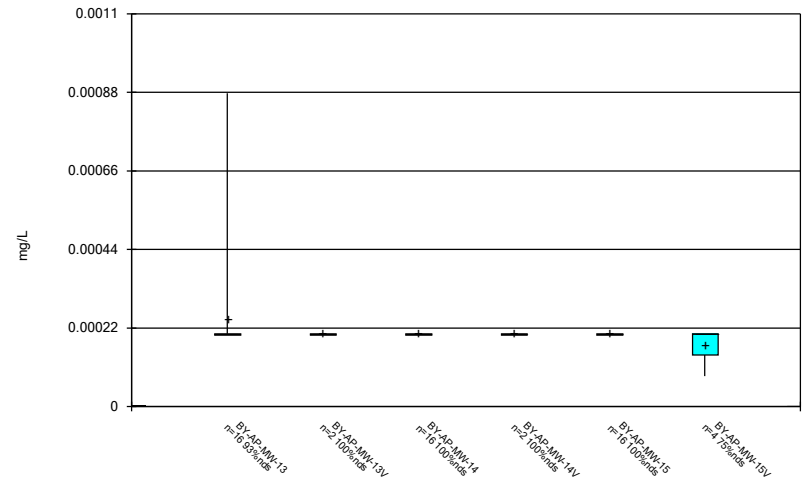
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



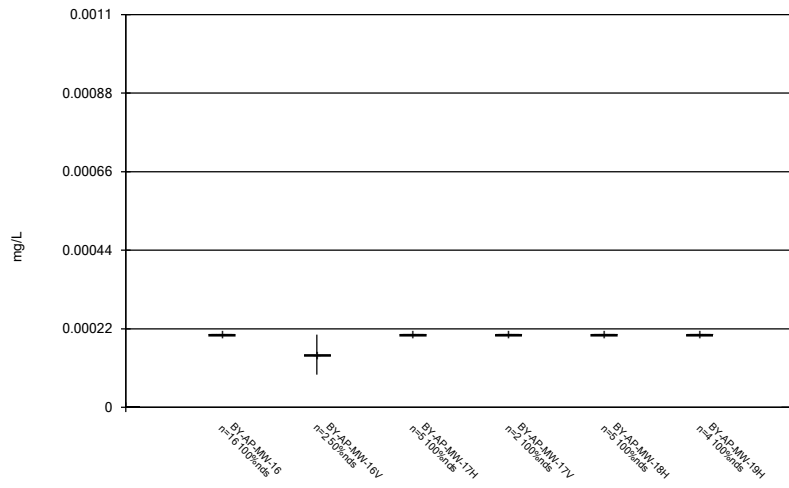
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



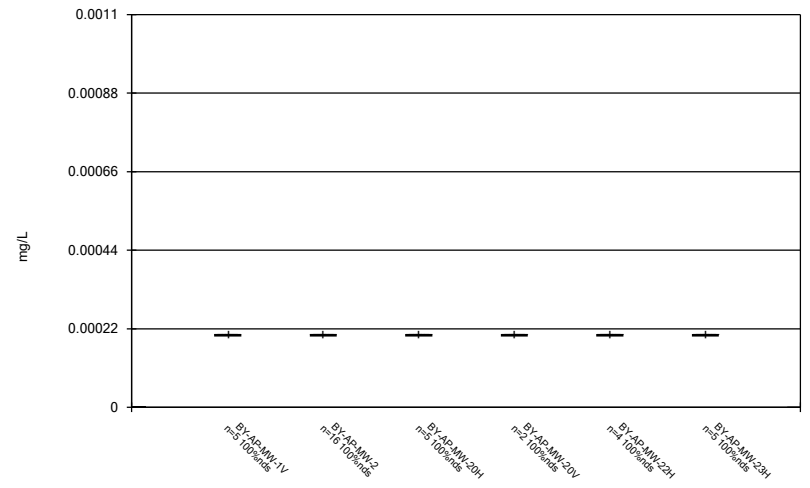
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Box & Whiskers Plot



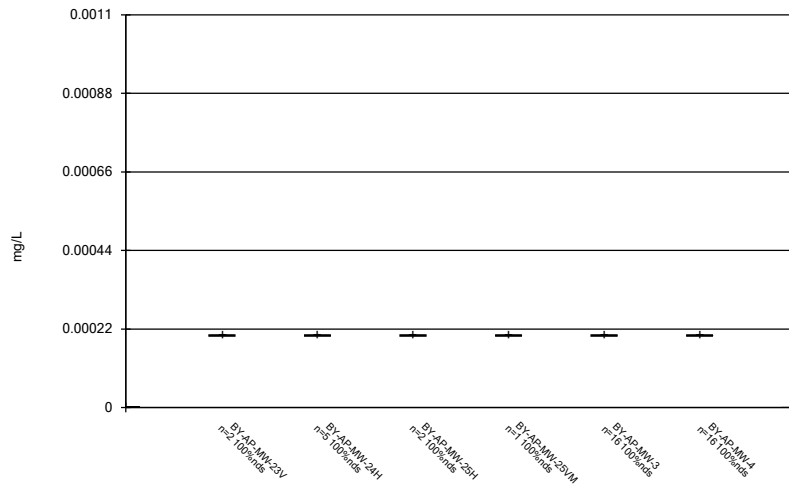
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Box & Whiskers Plot



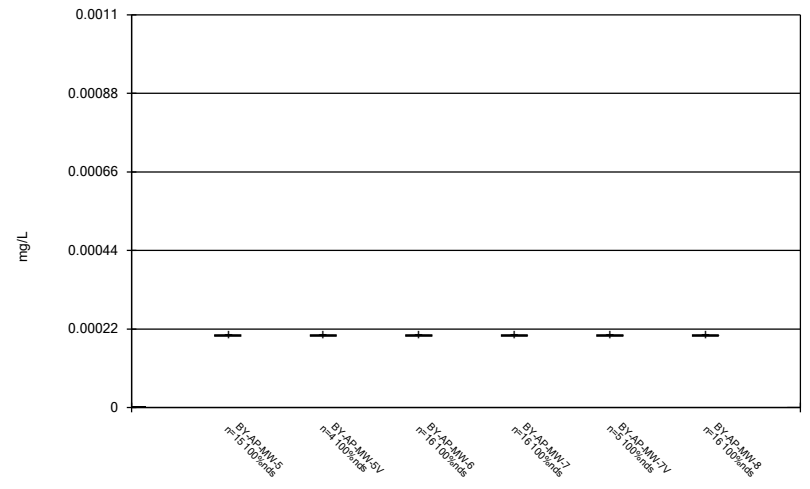
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



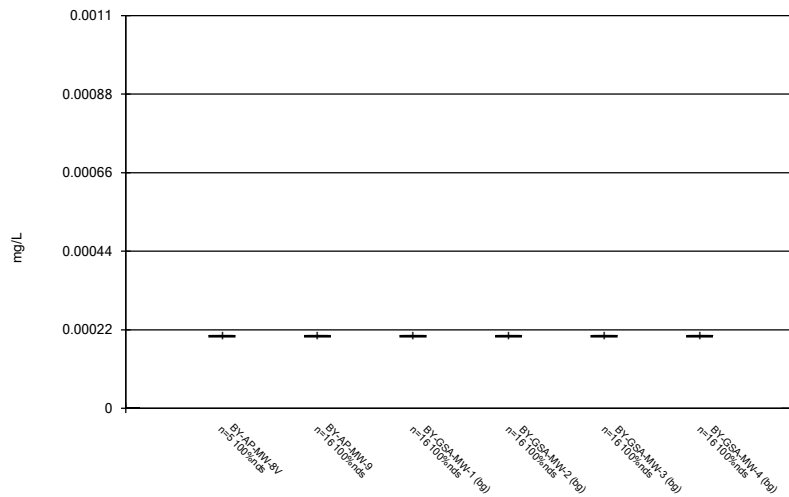
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



Constituent: Thallium Analysis Run 7/14/2021 12:34 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



Constituent: Thallium Analysis Run 7/14/2021 12:34 PM
Plant Barry Client: Southern Company Data: Barry Ash Pond

FIGURE C.

Outliers

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 7/7/2021, 10:56 AM

BY-AP-MW-1 Chloride (mg/L)
BY-AP-MW-4 Cobalt (mg/L)
BY-AP-MW-12 Sulfate (mg/L)

3/2/2016	2.18 (o)		
4/19/2016	9.01 (o)		
1/31/2017		0.0127 (o)	
5/1/2018		0.0126 (o)	
11/28/2018			<50 (o)

FIGURE D.

Intrawell Prediction Limits - Significant Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 7/8/2021, 11:22 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NB	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH, field (SU)	BY-AP-MW-12	6.282	6.038	5/18/2021	5.58	Yes	15	6.16	0.04675	0	None	No	0.0002351	Param Intra	1 of 2
pH, field (SU)	BY-AP-MW-13	6.183	6.001	5/19/2021	5.79	Yes	15	6.092	0.03468	0	None	No	0.0002351	Param Intra	1 of 2
pH, field (SU)	BY-AP-MW-14	6.215	5.954	5/25/2021	5.82	Yes	15	37.04	0.6078	0	None	x^2	0.0002351	Param Intra	1 of 2
pH, field (SU)	BY-GSA-MW-2	4.958	4.493	5/11/2021	4.29	Yes	14	4.726	0.08689	0	None	No	0.0002351	Param Intra	1 of 2
pH, field (SU)	BY-GSA-MW-3	5.095	4.729	5/11/2021	4.53	Yes	14	4.912	0.0683	0	None	No	0.0002351	Param Intra	1 of 2
Sulfate (mg/L)	BY-AP-MW-1	6.348	n/a	5/18/2021	16.5	Yes	13	52.17	74.33	46.15	Kaplan-Meier	x^3	0.0004702	Param Intra	1 of 2
Sulfate (mg/L)	BY-AP-MW-10	5	n/a	5/11/2021	13.2	Yes	13	n/a	n/a	69.23	n/a	n/a	0.009692	NP Intra (NDs)	1 of 2
Sulfate (mg/L)	BY-AP-MW-12	7.04	n/a	5/18/2021	25.1	Yes	12	n/a	n/a	75	n/a	n/a	0.01077	NP Intra (NDs)	1 of 2
Sulfate (mg/L)	BY-AP-MW-13	49.5	n/a	5/19/2021	50.4	Yes	13	n/a	n/a	38.46	n/a	n/a	0.009692	NP Intra (normality)	1 of 2
Sulfate (mg/L)	BY-AP-MW-15	6.2	n/a	5/11/2021	7.54	Yes	13	n/a	n/a	76.92	n/a	n/a	0.009692	NP Intra (NDs)	1 of 2
Sulfate (mg/L)	BY-AP-MW-8	6.01	n/a	5/11/2021	35.4	Yes	13	n/a	n/a	76.92	n/a	n/a	0.009692	NP Intra (NDs)	1 of 2
Sulfate (mg/L)	BY-AP-MW-9	5.91	n/a	5/18/2021	27.7	Yes	13	n/a	n/a	69.23	n/a	n/a	0.009692	NP Intra (NDs)	1 of 2

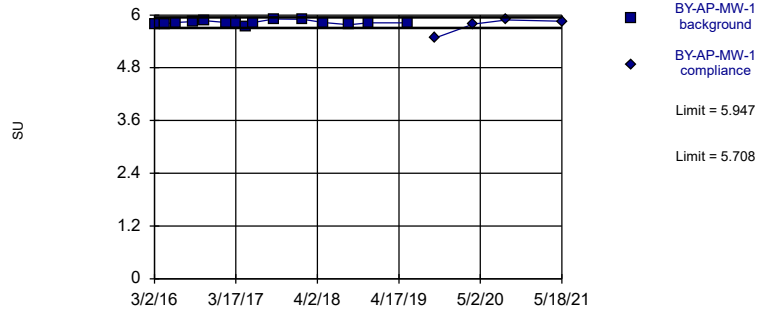
Intrawell Prediction Limits - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 7/8/2021, 11:22 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NB	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH, field (SU)	BY-AP-MW-1	5.947	5.708	5/18/2021	5.86	No	15	5.827	0.04574	0	None	No	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-10	6.413	6.194	5/11/2021	6.4	No	15	6.303	0.04186	0	None	No	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-11	6.407	6.129	5/19/2021	6.33	No	15	6.268	0.05294	0	None	No	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-12	6.282	6.038	5/18/2021	5.58	Yes	15	6.16	0.04675	0	None	No	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-13	6.183	6.001	5/19/2021	5.79	Yes	15	6.092	0.03468	0	None	No	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-14	6.215	5.954	5/25/2021	5.82	Yes	15	37.04	0.6078	0	None	x^2	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-15	6.831	6.476	5/11/2021	6.76	No	15	6.653	0.06789	0	None	No	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-16	5.936	5.675	5/19/2021	5.8	No	15	5.805	0.04998	0	None	No	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-2	6.156	5.437	5/18/2021	5.83	No	15	5.797	0.1375	0	None	No	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-3	5.327	4.816	5/18/2021	4.93	No	15	5.071	0.0976	0	None	No	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-4	5.362	4.114	5/18/2021	4.17	No	15	4.738	0.2385	0	None	No	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-6	5.627	5.125	5/17/2021	5.21	No	15	5.376	0.09605	0	None	No	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-7	6.419	6.16	5/18/2021	6.4	No	14	6.289	0.04843	0	None	No	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-8	6.288	6.104	5/11/2021	6.25	No	15	6.196	0.03521	0	None	No	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-9	6.383	6.124	5/18/2021	6.3	No	15	6.253	0.04938	0	None	No	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-GSA-MW-1	4.911	4.482	5/12/2021	4.74	No	14	4.696	0.08025	0	None	No	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-GSA-MW-2	4.958	4.493	5/11/2021	4.29	Yes	14	4.726	0.08689	0	None	No	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-GSA-MW-3	5.095	4.729	5/11/2021	4.53	Yes	14	4.912	0.0683	0	None	No	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-GSA-MW-4	5.043	4.641	5/11/2021	4.67	No	14	4.842	0.07516	0	None	No	No	0.0002351	Param Intra 1 of 2
Sulfate (mg/L)	BY-AP-MW-1	6.348	n/a	5/18/2021	16.5	Yes	13	52.17	74.33	46.15	Kaplan-Meier	x^3	No	0.0004702	Param Intra 1 of 2
Sulfate (mg/L)	BY-AP-MW-10	5	n/a	5/11/2021	13.2	Yes	13	n/a	n/a	69.23	n/a	n/a	No	0.009692	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	BY-AP-MW-11	19.37	n/a	5/19/2021	16.5	No	13	1.308	0.5028	46.15	Kaplan-Meier	x^(1/3)	No	0.0004702	Param Intra 1 of 2
Sulfate (mg/L)	BY-AP-MW-12	7.04	n/a	5/18/2021	25.1	Yes	12	n/a	n/a	75	n/a	n/a	No	0.01077	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	BY-AP-MW-13	49.5	n/a	5/19/2021	50.4	Yes	13	n/a	n/a	38.46	n/a	n/a	No	0.009692	NP Intra (normality) 1 of 2
Sulfate (mg/L)	BY-AP-MW-14	67.6	n/a	5/25/2021	59.2	No	13	n/a	n/a	69.23	n/a	n/a	No	0.009692	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	BY-AP-MW-15	6.2	n/a	5/11/2021	7.54	Yes	13	n/a	n/a	76.92	n/a	n/a	No	0.009692	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	BY-AP-MW-16	6.72	n/a	5/19/2021	3.11	No	13	n/a	n/a	69.23	n/a	n/a	No	0.009692	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	BY-AP-MW-2	3.3	n/a	5/18/2021	1ND	No	13	n/a	n/a	69.23	n/a	n/a	No	0.009692	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	BY-AP-MW-3	5	n/a	5/18/2021	0.883J	No	13	n/a	n/a	53.85	n/a	n/a	No	0.009692	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	BY-AP-MW-4	5.906	n/a	5/18/2021	4.43	No	13	2.804	1.132	7.692	None	No	No	0.0004702	Param Intra 1 of 2
Sulfate (mg/L)	BY-AP-MW-6	2.774	n/a	5/17/2021	0.981J	No	13	1.027	0.2332	30.77	Kaplan-Meier	sqrt(x)	No	0.0004702	Param Intra 1 of 2
Sulfate (mg/L)	BY-AP-MW-7	5	n/a	5/18/2021	4.6	No	12	n/a	n/a	50	n/a	n/a	No	0.01077	NP Intra (normality) 1 of 2
Sulfate (mg/L)	BY-AP-MW-8	6.01	n/a	5/11/2021	35.4	Yes	13	n/a	n/a	76.92	n/a	n/a	No	0.009692	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	BY-AP-MW-9	5.91	n/a	5/18/2021	27.7	Yes	13	n/a	n/a	69.23	n/a	n/a	No	0.009692	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	BY-GSA-MW-1	23.3	n/a	5/12/2021	16.3	No	12	n/a	n/a	0	n/a	n/a	No	0.01077	NP Intra (normality) 1 of 2
Sulfate (mg/L)	BY-GSA-MW-2	10.46	n/a	5/11/2021	7.92	No	11	6.358	1.408	0	None	No	No	0.0004702	Param Intra 1 of 2
Sulfate (mg/L)	BY-GSA-MW-3	9.409	n/a	5/11/2021	7.73	No	12	7.456	0.6976	0	None	No	No	0.0004702	Param Intra 1 of 2
Sulfate (mg/L)	BY-GSA-MW-4	8.668	n/a	5/11/2021	6.8	No	12	6.626	0.7293	0	None	No	No	0.0004702	Param Intra 1 of 2

Within Limits

Prediction Limit Intrawell Parametric

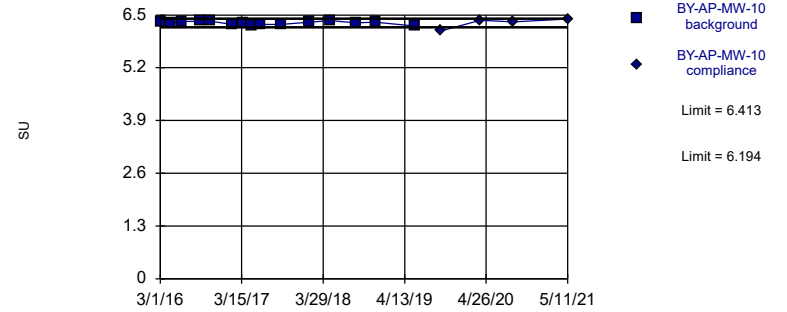


Background Data Summary: Mean=5.827, Std. Dev.=0.04574, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9458, critical = 0.835. Kappa = 2.617 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH, field Analysis Run 7/8/2021 11:19 AM View: Appendix III Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

Prediction Limit Intrawell Parametric

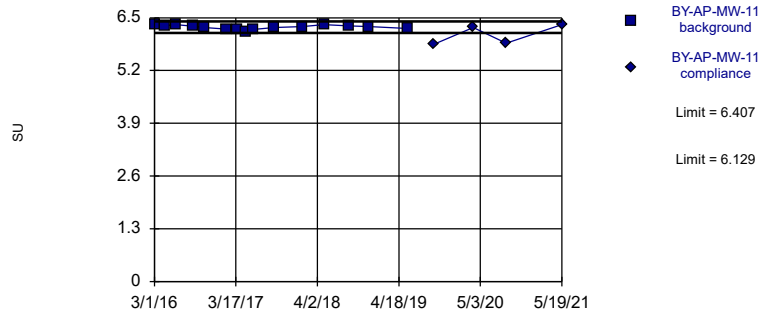


Background Data Summary: Mean=6.303, Std. Dev.=0.04186, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9284, critical = 0.835. Kappa = 2.617 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH, field Analysis Run 7/8/2021 11:20 AM View: Appendix III Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

Prediction Limit Intrawell Parametric

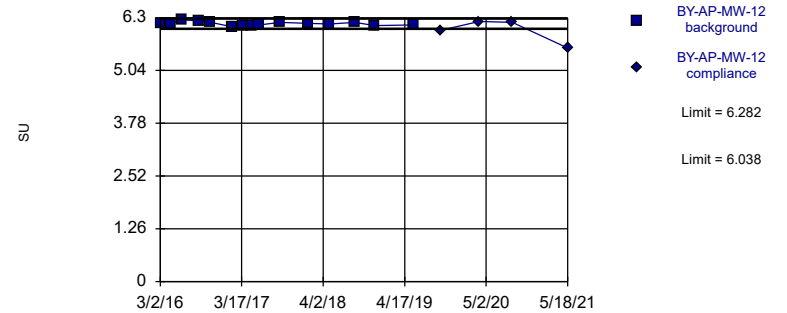


Background Data Summary: Mean=6.268, Std. Dev.=0.05294, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9541, critical = 0.835. Kappa = 2.617 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH, field Analysis Run 7/8/2021 11:20 AM View: Appendix III Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limits

Prediction Limit Intrawell Parametric

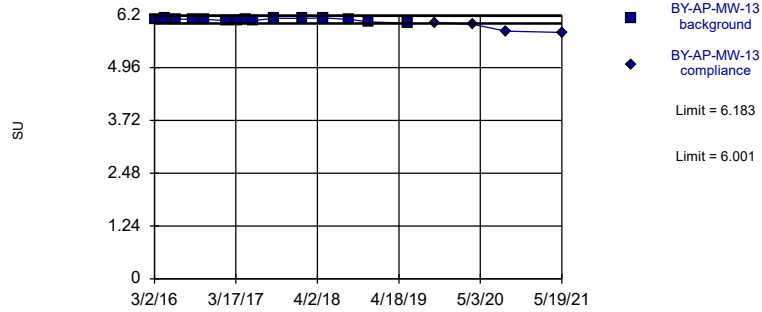


Background Data Summary: Mean=6.16, Std. Dev.=0.04675, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9762, critical = 0.835. Kappa = 2.617 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH, field Analysis Run 7/8/2021 11:20 AM View: Appendix III Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limits

Prediction Limit Intrawell Parametric

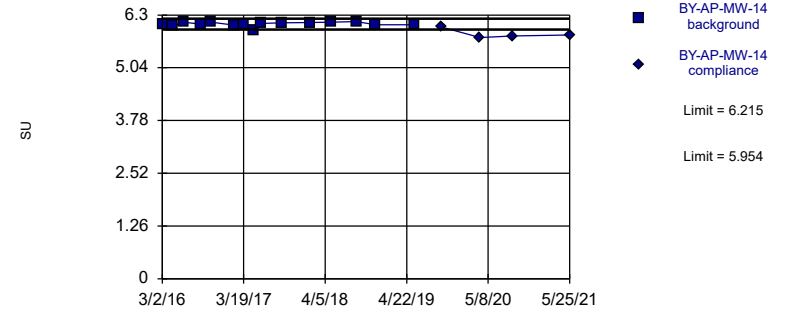


Background Data Summary: Mean=6.092, Std. Dev.=0.03468, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9128, critical = 0.835. Kappa = 2.617 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH, field Analysis Run 7/8/2021 11:20 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limits

Prediction Limit Intrawell Parametric

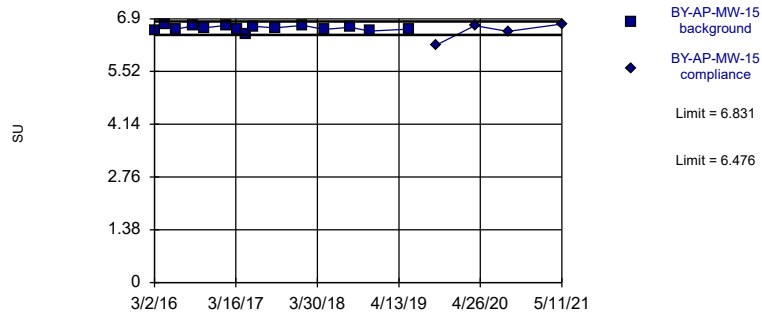


Background Data Summary (based on square transformation): Mean=37.04, Std. Dev.=0.6078, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8381, critical = 0.835. Kappa = 2.617 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH, field Analysis Run 7/8/2021 11:20 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

Prediction Limit Intrawell Parametric

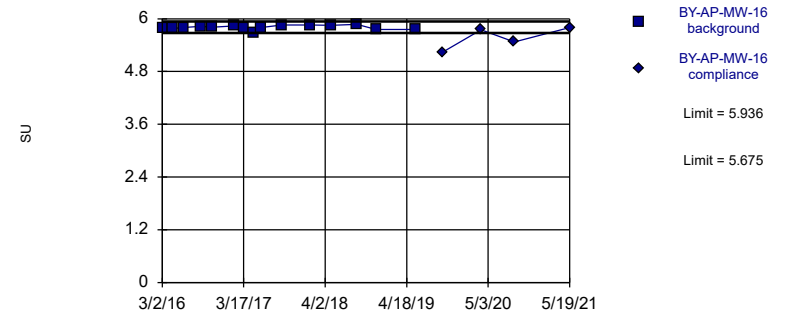


Background Data Summary: Mean=6.653, Std. Dev.=0.06789, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9443, critical = 0.835. Kappa = 2.617 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH, field Analysis Run 7/8/2021 11:20 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

Prediction Limit Intrawell Parametric

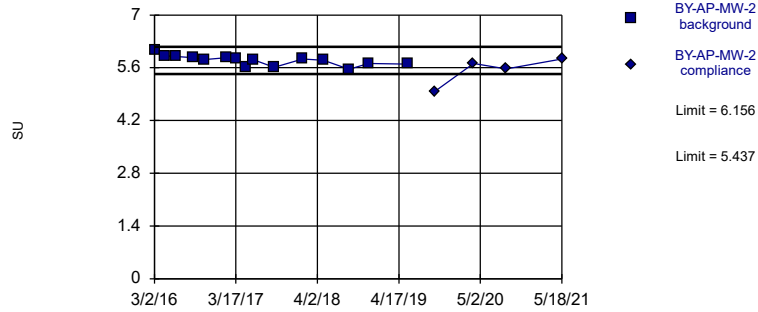


Background Data Summary: Mean=5.805, Std. Dev.=0.04998, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9236, critical = 0.835. Kappa = 2.617 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH, field Analysis Run 7/8/2021 11:20 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

Prediction Limit Intrawell Parametric

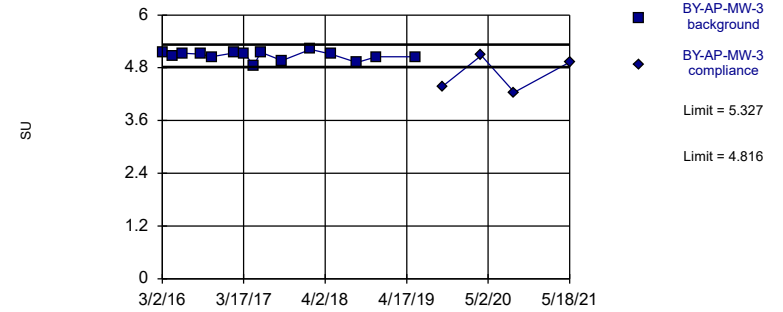


Background Data Summary: Mean=5.797, Std. Dev.=0.1375, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.949, critical = 0.835. Kappa = 2.617 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH, field Analysis Run 7/8/2021 11:20 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

Prediction Limit Intrawell Parametric

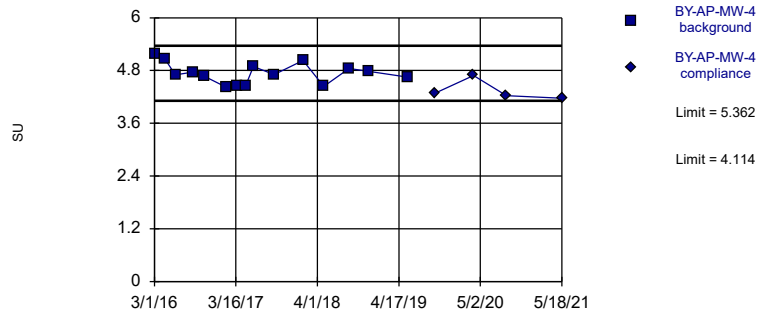


Background Data Summary: Mean=5.071, Std. Dev.=0.0976, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9102, critical = 0.835. Kappa = 2.617 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH, field Analysis Run 7/8/2021 11:20 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

Prediction Limit Intrawell Parametric

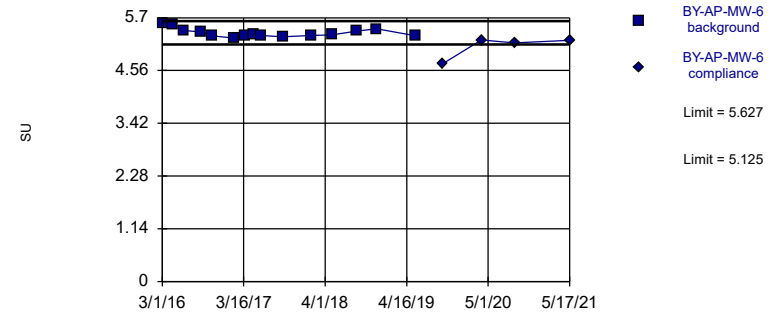


Background Data Summary: Mean=4.738, Std. Dev.=0.2385, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9433, critical = 0.835. Kappa = 2.617 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH, field Analysis Run 7/8/2021 11:20 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

Prediction Limit Intrawell Parametric

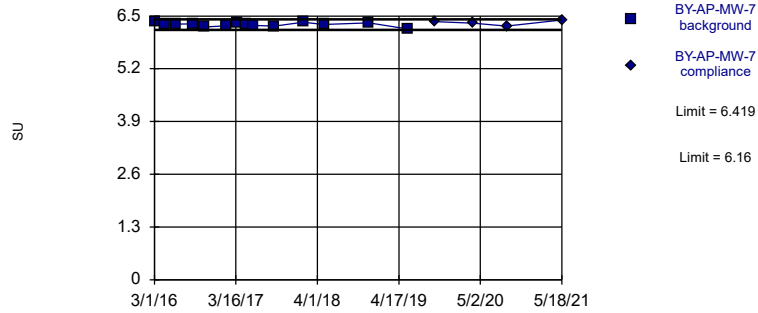


Background Data Summary: Mean=5.376, Std. Dev.=0.09605, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8715, critical = 0.835. Kappa = 2.617 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH, field Analysis Run 7/8/2021 11:20 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

Prediction Limit Intrawell Parametric

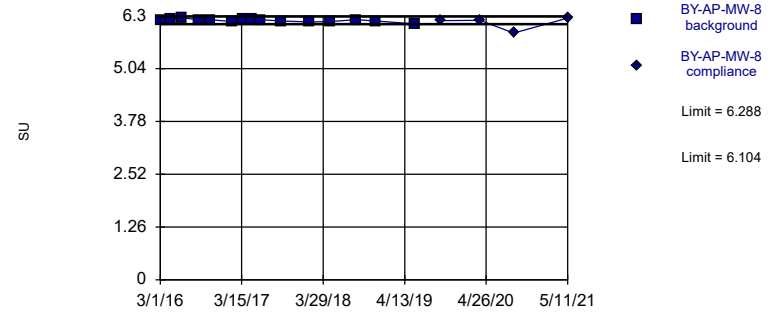


Background Data Summary: Mean=6.289, Std. Dev.=0.04843, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9643, critical = 0.825. Kappa = 2.678 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH, field Analysis Run 7/8/2021 11:20 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

Prediction Limit Intrawell Parametric

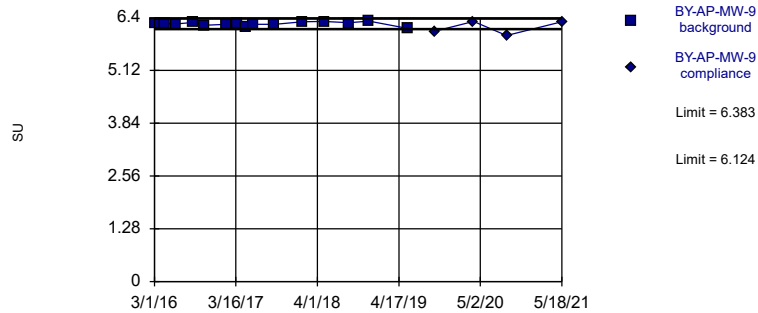


Background Data Summary: Mean=6.196, Std. Dev.=0.03521, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9094, critical = 0.835. Kappa = 2.617 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH, field Analysis Run 7/8/2021 11:20 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

Prediction Limit Intrawell Parametric

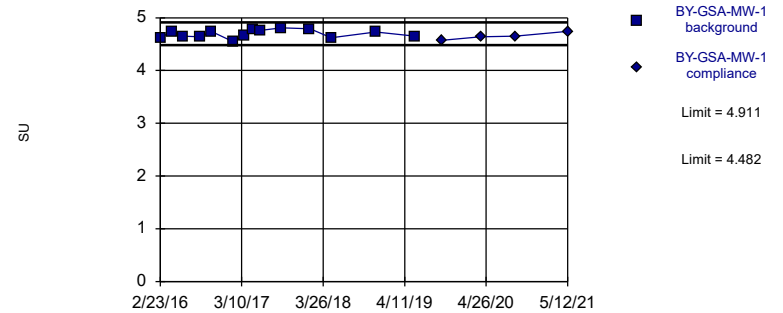


Background Data Summary: Mean=6.253, Std. Dev.=0.04938, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9251, critical = 0.835. Kappa = 2.617 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH, field Analysis Run 7/8/2021 11:20 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

Prediction Limit Intrawell Parametric

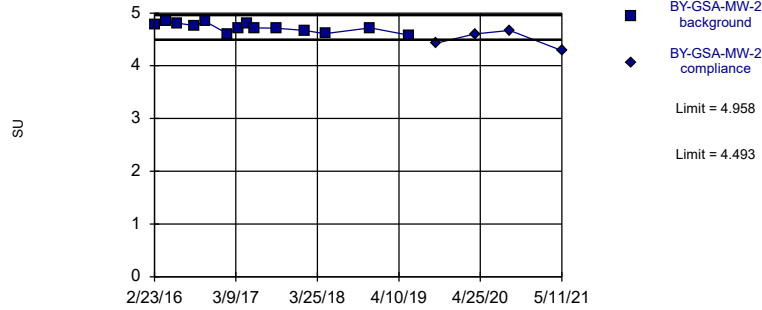


Background Data Summary: Mean=4.696, Std. Dev.=0.08025, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9416, critical = 0.825. Kappa = 2.678 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH, field Analysis Run 7/8/2021 11:20 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limits

Prediction Limit Intrawell Parametric

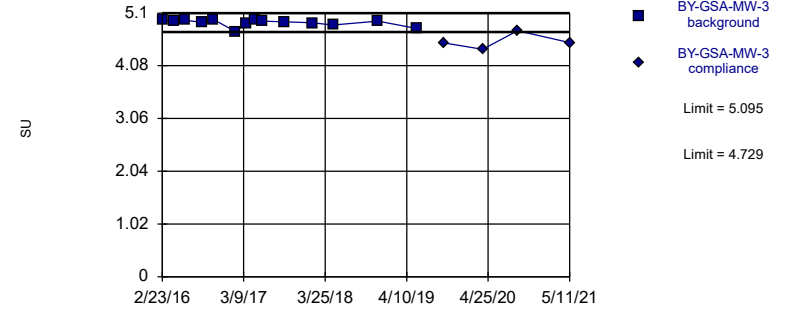


Background Data Summary: Mean=4.726, Std. Dev.=0.08689, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9314, critical = 0.825. Kappa = 2.678 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH, field Analysis Run 7/8/2021 11:20 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limits

Prediction Limit Intrawell Parametric

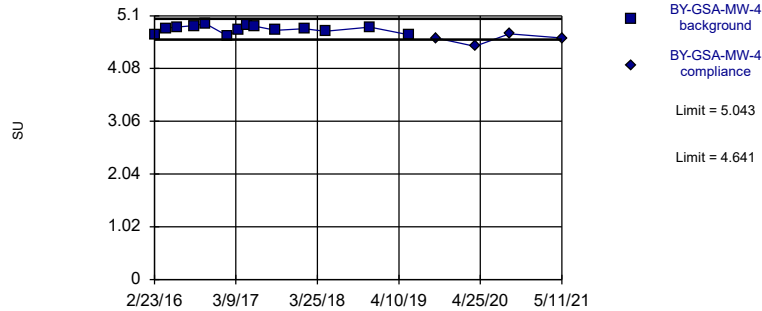


Background Data Summary: Mean=4.912, Std. Dev.=0.0683, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8283, critical = 0.825. Kappa = 2.678 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH, field Analysis Run 7/8/2021 11:20 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

Prediction Limit Intrawell Parametric

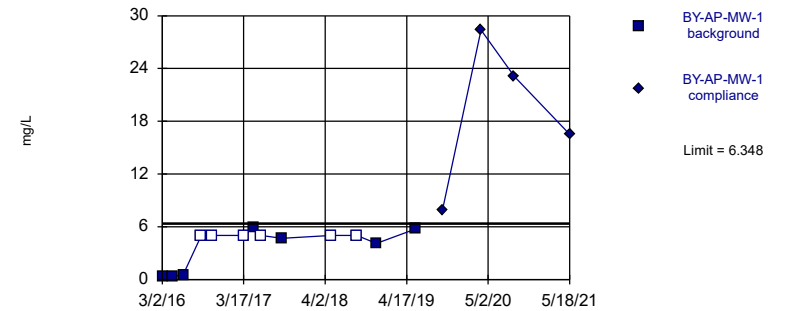


Background Data Summary: Mean=4.842, Std. Dev.=0.07516, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9458, critical = 0.825. Kappa = 2.678 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH, field Analysis Run 7/8/2021 11:20 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Hollow symbols indicate censored values.
Exceeds Limit

Prediction Limit Intrawell Parametric

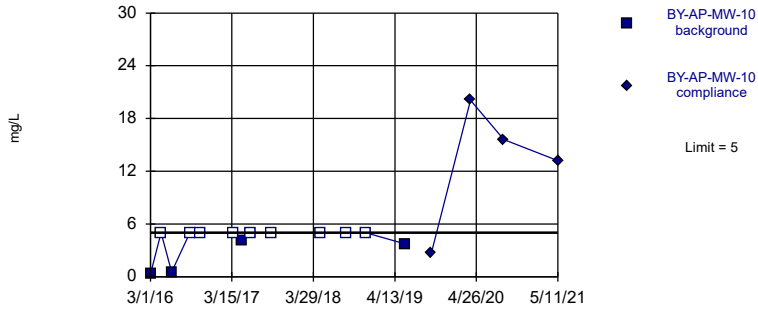


Background Data Summary (based on cube transformation) (after Kaplan-Meier Adjustment): Mean=52.17, Std. Dev.=74.33, n=13, 46.15% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8687, critical = 0.814. Kappa = 2.739 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Sulfate Analysis Run 7/8/2021 11:20 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.9.6.29 . UG
Hollow symbols indicate censored values.
Exceeds Limit

Prediction Limit
Intrawell Non-parametric

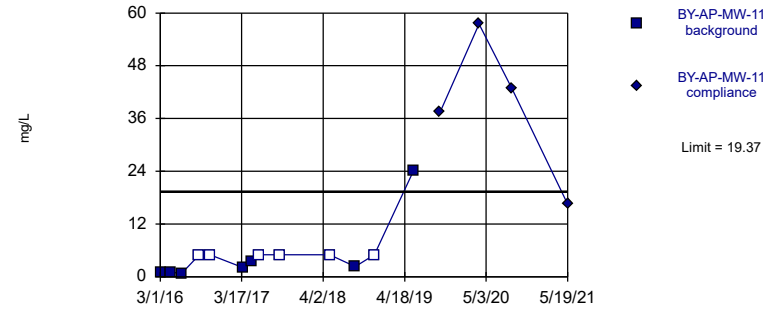


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 13 background values. 69.23% NDs. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Sulfate Analysis Run 7/8/2021 11:20 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.9.6.29 . UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Parametric

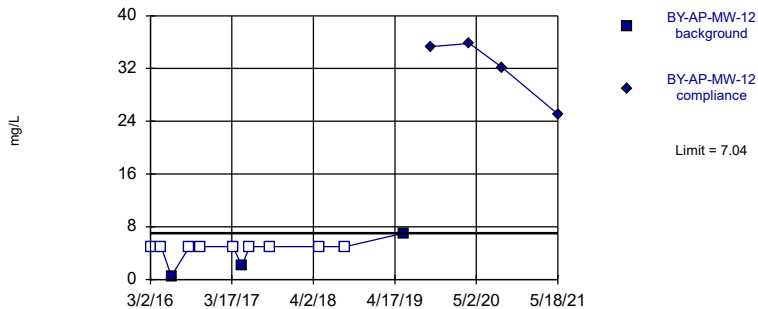


Background Data Summary (based on cube root transformation) (after Kaplan-Meier Adjustment): Mean=1.308, Std. Dev.=0.5028, n=13, 46.15% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8281, critical = 0.814. Kappa = 2.739 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Sulfate Analysis Run 7/8/2021 11:20 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.9.6.29 . UG
Hollow symbols indicate censored values.
Exceeds Limit

Prediction Limit
Intrawell Non-parametric

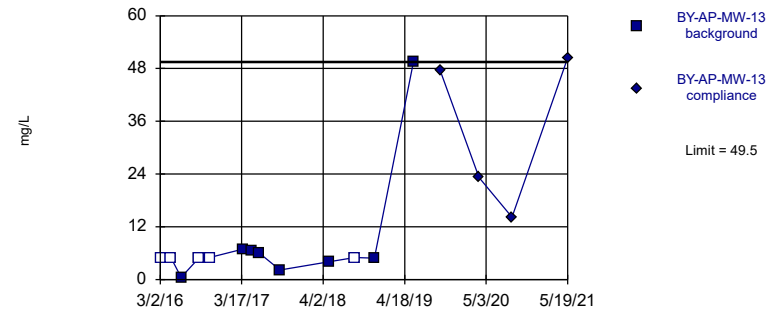


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 75% NDs. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01077 (1 of 2).

Constituent: Sulfate Analysis Run 7/8/2021 11:20 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.9.6.29 . UG
Hollow symbols indicate censored values.
Exceeds Limit

Prediction Limit
Intrawell Non-parametric



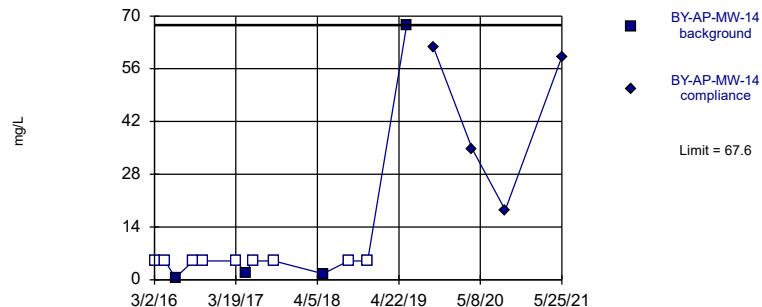
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 13 background values. 38.46% NDs. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Sulfate Analysis Run 7/8/2021 11:20 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.9.6.29 . UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Non-parametric



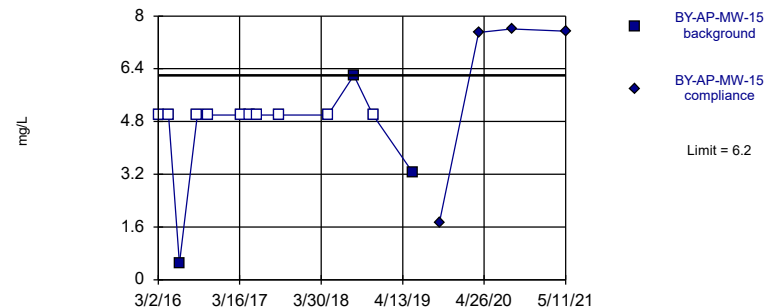
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 13 background values. 69.23% NDs. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Sulfate Analysis Run 7/8/2021 11:20 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.9.6.29 . UG
Hollow symbols indicate censored values.

Exceeds Limit

Prediction Limit
Intrawell Non-parametric



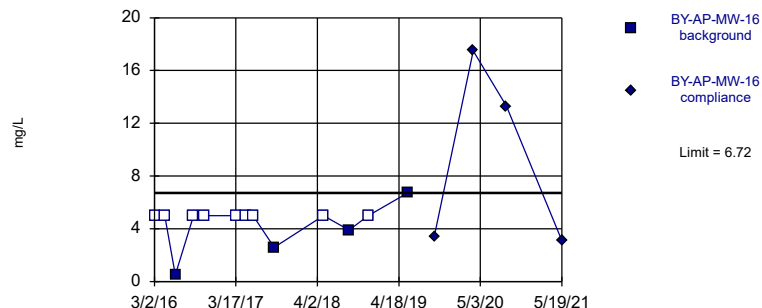
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 13 background values. 76.92% NDs. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Sulfate Analysis Run 7/8/2021 11:20 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.9.6.29 . UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Non-parametric



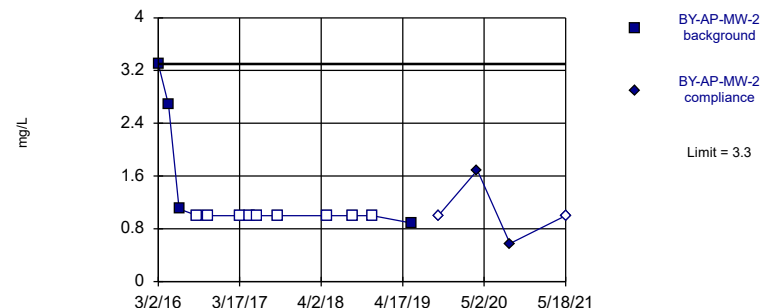
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 13 background values. 69.23% NDs. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Sulfate Analysis Run 7/8/2021 11:20 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.9.6.29 . UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Non-parametric



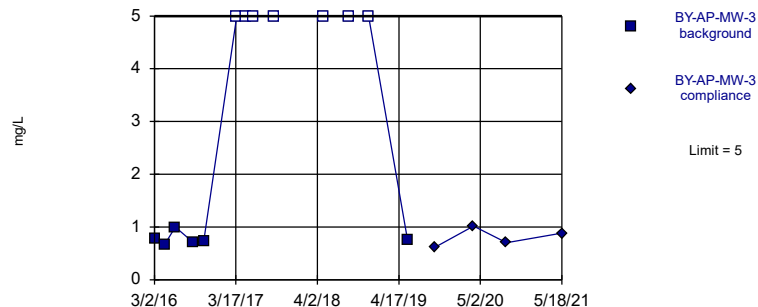
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 13 background values. 69.23% NDs. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Sulfate Analysis Run 7/8/2021 11:20 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.9.6.29 . UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Non-parametric



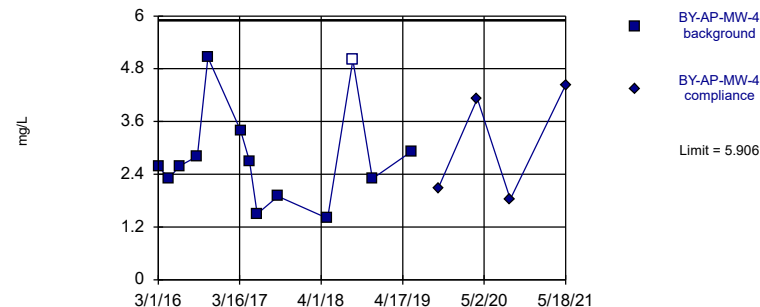
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 13 background values. 53.85% NDs. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Sulfate Analysis Run 7/8/2021 11:20 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.9.6.29 . UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Parametric



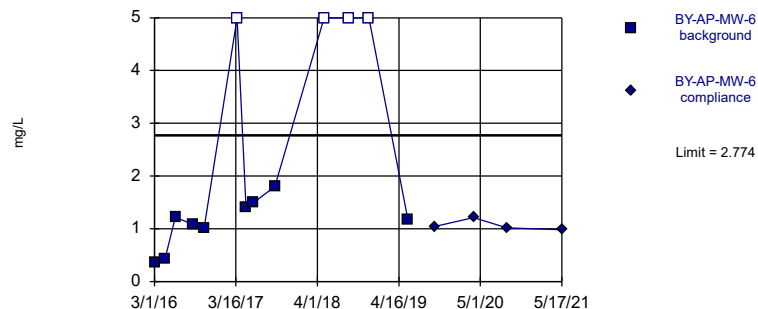
Background Data Summary: Mean=2.804, Std. Dev.=1.132, n=13, 7.692% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8682, critical = 0.814. Kappa = 2.739 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Sulfate Analysis Run 7/8/2021 11:20 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.9.6.29 . UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Parametric



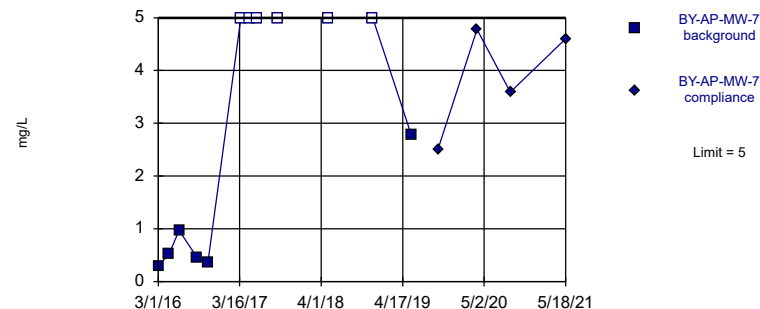
Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=1.027, Std. Dev.=0.2332, n=13, 30.77% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8266, critical = 0.814. Kappa = 2.739 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Sulfate Analysis Run 7/8/2021 11:20 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.9.6.29 . UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Non-parametric

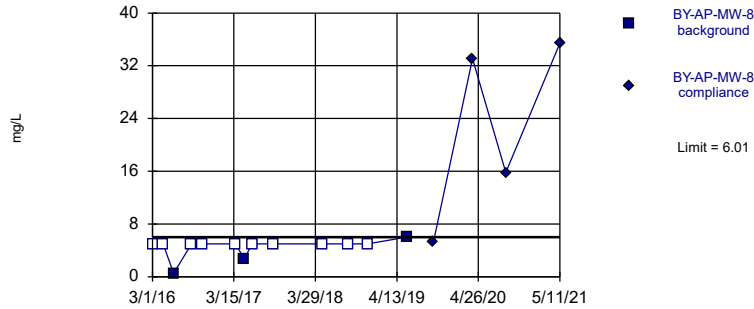


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 12 background values. 50% NDs. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01077 (1 of 2).

Constituent: Sulfate Analysis Run 7/8/2021 11:20 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.9.6.29 . UG
 Hollow symbols indicate censored values.
 Exceeds Limit

Prediction Limit
 Intrawell Non-parametric

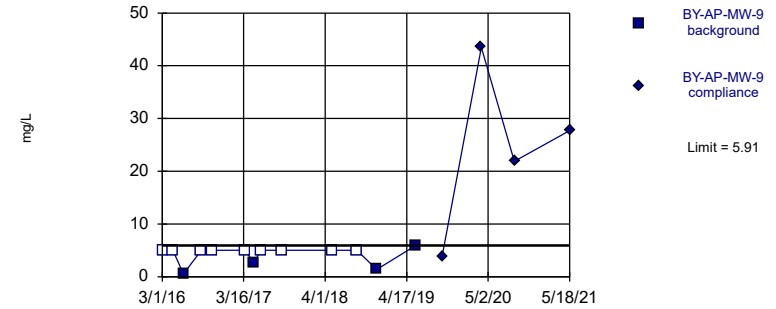


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 13 background values. 76.92% NDs. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Sulfate Analysis Run 7/8/2021 11:20 AM View: Appendix III Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.9.6.29 . UG
 Hollow symbols indicate censored values.
 Exceeds Limit

Prediction Limit
 Intrawell Non-parametric

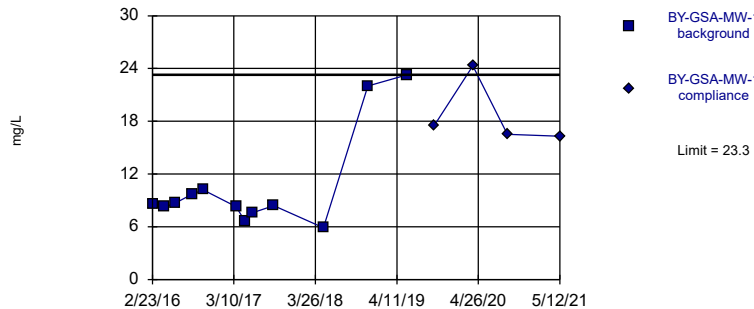


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 13 background values. 69.23% NDs. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Sulfate Analysis Run 7/8/2021 11:20 AM View: Appendix III Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.9.6.29 . UG
 Within Limit

Prediction Limit
 Intrawell Non-parametric

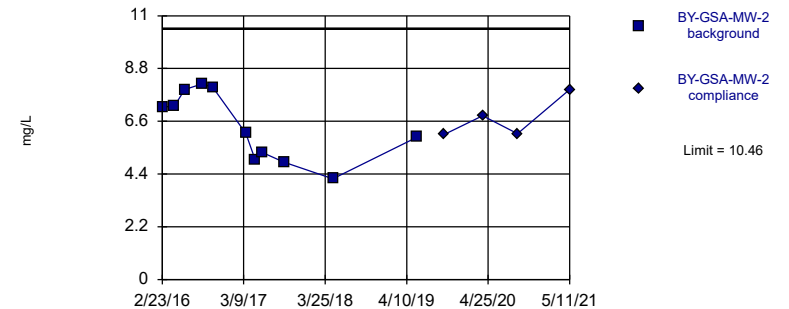


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 12 background values. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01077 (1 of 2).

Constituent: Sulfate Analysis Run 7/8/2021 11:20 AM View: Appendix III Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.9.6.29 . UG
 Within Limit

Prediction Limit
 Intrawell Parametric

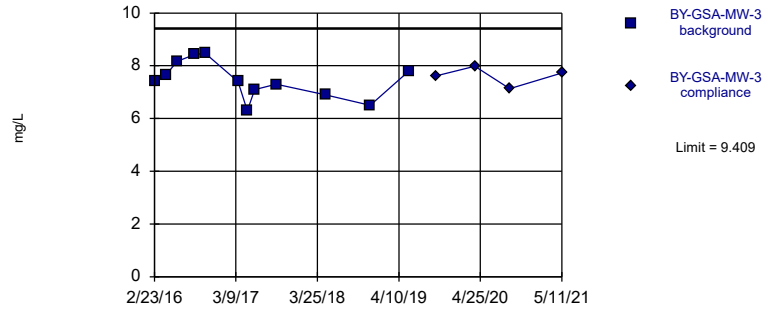


Background Data Summary: Mean=6.358, Std. Dev.=1.408, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9195, critical = 0.792. Kappa = 2.915 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Sulfate Analysis Run 7/8/2021 11:20 AM View: Appendix III Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limit

Prediction Limit Intrawell Parametric

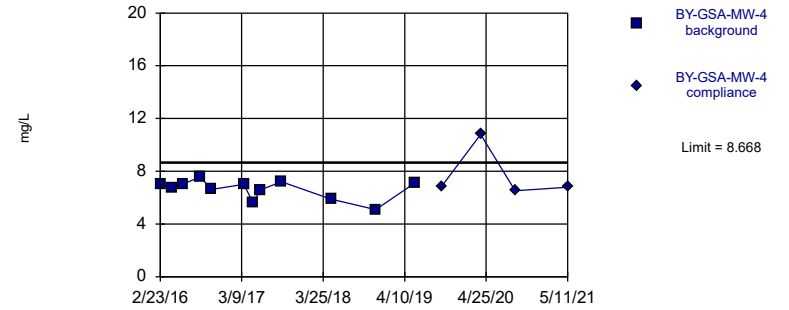


Background Data Summary: Mean=7.456, Std. Dev.=0.6976, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9647, critical = 0.805. Kappa = 2.8 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Sulfate Analysis Run 7/8/2021 11:20 AM View: Appendix III Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limit

Prediction Limit Intrawell Parametric



Background Data Summary: Mean=6.626, Std. Dev.=0.7293, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8904, critical = 0.805. Kappa = 2.8 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Sulfate Analysis Run 7/8/2021 11:20 AM View: Appendix III Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Prediction Limit

Constituent: pH, field (SU) Analysis Run 7/8/2021 12:06 PM View: Appendix III Trend

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-1
3/2/2016	5.78	
4/19/2016	5.8	
6/8/2016	5.83	
8/31/2016	5.85	
10/19/2016	5.87	
1/31/2017	5.83	
3/21/2017	5.83	
5/2/2017	5.73	
6/6/2017	5.83	
9/13/2017	5.91	
1/24/2018	5.9	
5/1/2018	5.83	
8/28/2018	5.78	
11/28/2018	5.82	
5/29/2019	5.82	
10/1/2019		5.47
3/30/2020		5.79
9/1/2020		5.89
5/18/2021		5.86

Prediction Limit

Constituent: pH, field (SU) Analysis Run 7/8/2021 12:06 PM View: Appendix III Trend

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-10	BY-AP-MW-10
3/1/2016	6.33	
4/20/2016	6.31	
6/8/2016	6.34	
8/31/2016	6.35	
10/19/2016	6.35	
2/1/2017	6.27	
3/22/2017	6.29	
5/3/2017	6.23	
6/7/2017	6.27	
9/14/2017	6.27	
1/23/2018	6.32	
5/2/2018	6.36	
8/28/2018	6.31	
11/28/2018	6.32	
5/30/2019	6.23	
9/30/2019		6.11
3/31/2020		6.37
9/1/2020		6.33
5/11/2021		6.4

Prediction Limit

Constituent: pH, field (SU) Analysis Run 7/8/2021 12:06 PM View: Appendix III Trend

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-11	BY-AP-MW-11
3/1/2016	6.34	
4/20/2016	6.31	
6/8/2016	6.33	
8/31/2016	6.29	
10/19/2016	6.26	
2/1/2017	6.22	
3/22/2017	6.22	
5/3/2017	6.15	
6/7/2017	6.21	
9/13/2017	6.26	
1/23/2018	6.28	
5/2/2018	6.33	
8/29/2018	6.3	
11/28/2018	6.28	
5/29/2019	6.24	
9/30/2019		5.85
3/31/2020		6.26
9/1/2020		5.87
5/19/2021		6.33

Prediction Limit

Constituent: pH, field (SU) Analysis Run 7/8/2021 12:06 PM View: Appendix III Trend

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-12	BY-AP-MW-12
3/2/2016	6.16	
4/20/2016	6.17	
6/8/2016	6.25	
8/31/2016	6.23	
10/19/2016	6.2	
2/1/2017	6.08	
3/22/2017	6.12	
5/3/2017	6.12	
6/7/2017	6.13	
9/13/2017	6.19	
1/23/2018	6.17	
5/2/2018	6.15	
8/29/2018	6.19	
11/28/2018	6.11	
5/29/2019	6.13	
10/1/2019		6
3/31/2020		6.21
9/1/2020		6.19
5/18/2021		5.58

Prediction Limit

Constituent: pH, field (SU) Analysis Run 7/8/2021 12:06 PM View: Appendix III Trend

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-13	BY-AP-MW-13
3/2/2016	6.1	
4/20/2016	6.14	
6/8/2016	6.11	
8/31/2016	6.1	
10/19/2016	6.1	
1/31/2017	6.07	
3/22/2017	6.07	
5/3/2017	6.1	
6/7/2017	6.07	
9/13/2017	6.12	
1/22/2018	6.12	
5/2/2018	6.13	
8/29/2018	6.1	
11/28/2018	6.04	
5/29/2019	6.01	
10/1/2019		6.02
3/31/2020		5.98
9/1/2020		5.82
5/19/2021		5.79

Prediction Limit

Constituent: pH, field (SU) Analysis Run 7/8/2021 12:06 PM View: Appendix III Trend

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14	BY-AP-MW-14
3/2/2016	6.08	
4/20/2016	6.04	
6/8/2016	6.13	
8/30/2016	6.08	
10/18/2016	6.13	
1/31/2017	6.06	
3/22/2017	6.09	
5/2/2017	5.94	
6/6/2017	6.1	
9/13/2017	6.11	
1/23/2018	6.12	
5/2/2018	6.13	
8/29/2018	6.14	
11/27/2018	6.07	
5/29/2019	6.07	
10/1/2019		6.01
3/31/2020		5.76
9/2/2020		5.8
5/25/2021		5.82

Prediction Limit

Constituent: pH, field (SU) Analysis Run 7/8/2021 12:06 PM View: Appendix III Trend

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15	BY-AP-MW-15
3/2/2016	6.61	
4/19/2016	6.75	
6/8/2016	6.63	
8/31/2016	6.71	
10/19/2016	6.66	
1/31/2017	6.73	
3/21/2017	6.62	
5/2/2017	6.49	
6/6/2017	6.7	
9/13/2017	6.66	
1/22/2018	6.73	
5/1/2018	6.62	
8/29/2018	6.68	
11/27/2018	6.58	
5/29/2019	6.63	
10/1/2019		6.2
4/1/2020		6.72
9/2/2020		6.57
5/11/2021		6.76

Prediction Limit

Constituent: pH, field (SU) Analysis Run 7/8/2021 12:06 PM View: Appendix III Trend

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-16	BY-AP-MW-16
3/2/2016	5.79	
4/19/2016	5.78	
6/8/2016	5.8	
8/31/2016	5.83	
10/19/2016	5.81	
1/31/2017	5.84	
3/21/2017	5.79	
5/2/2017	5.68	
6/6/2017	5.8	
9/13/2017	5.86	
1/23/2018	5.86	
5/1/2018	5.85	
8/29/2018	5.87	
11/27/2018	5.76	
5/29/2019	5.76	
10/1/2019		5.23
3/31/2020		5.75
9/2/2020		5.47
5/19/2021		5.8

Prediction Limit

Constituent: pH, field (SU) Analysis Run 7/8/2021 12:06 PM View: Appendix III Trend

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-2	BY-AP-MW-2
3/2/2016	6.08	
4/19/2016	5.92	
6/8/2016	5.9	
8/31/2016	5.87	
10/19/2016	5.82	
1/31/2017	5.87	
3/21/2017	5.85	
5/2/2017	5.61	
6/6/2017	5.82	
9/12/2017	5.61	
1/24/2018	5.83	
5/1/2018	5.8	
8/28/2018	5.56	
11/27/2018	5.71	
5/29/2019	5.7	
10/1/2019		4.97
3/31/2020		5.71
8/31/2020		5.57
5/18/2021		5.83

Prediction Limit

Constituent: pH, field (SU) Analysis Run 7/8/2021 12:06 PM View: Appendix III Trend

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-3	BY-AP-MW-3
3/2/2016	5.14	
4/19/2016	5.06	
6/7/2016	5.13	
8/31/2016	5.11	
10/19/2016	5.05	
1/31/2017	5.14	
3/21/2017	5.13	
5/2/2017	4.85	
6/6/2017	5.15	
9/12/2017	4.96	
1/24/2018	5.22	
5/1/2018	5.11	
8/28/2018	4.92	
11/27/2018	5.05	
5/29/2019	5.05	
10/1/2019		4.37
3/31/2020		5.08
9/1/2020		4.24
5/18/2021		4.93

Prediction Limit

Constituent: pH, field (SU) Analysis Run 7/8/2021 12:06 PM View: Appendix III Trend

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-4	BY-AP-MW-4
3/1/2016	5.19	
4/19/2016	5.06	
6/7/2016	4.7	
8/30/2016	4.77	
10/19/2016	4.67	
1/31/2017	4.42	
3/21/2017	4.45	
5/2/2017	4.46	
6/6/2017	4.89	
9/12/2017	4.71	
1/24/2018	5.03	
5/1/2018	4.44	
8/28/2018	4.85	
11/27/2018	4.78	
5/29/2019	4.65	
10/1/2019		4.28
3/31/2020		4.69
9/1/2020		4.23
5/18/2021		4.17

Prediction Limit

Constituent: pH, field (SU) Analysis Run 7/8/2021 12:06 PM View: Appendix III Trend

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-6	BY-AP-MW-6
3/1/2016	5.59	
4/19/2016	5.55	
6/7/2016	5.43	
8/30/2016	5.39	
10/19/2016	5.31	
1/31/2017	5.26	
3/22/2017	5.32	
5/3/2017	5.35	
6/7/2017	5.32	
9/14/2017	5.29	
1/24/2018	5.32	
5/2/2018	5.33	
8/29/2018	5.41	
11/28/2018	5.46	
5/29/2019	5.31	
10/1/2019		4.7
3/31/2020		5.22
9/2/2020		5.16
5/17/2021		5.21

Prediction Limit

Constituent: pH, field (SU) Analysis Run 7/8/2021 12:06 PM View: Appendix III Trend

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7	BY-AP-MW-7
3/1/2016	6.36	
4/20/2016	6.31	
6/7/2016	6.3	
8/31/2016	6.31	
10/19/2016	6.23	
1/31/2017	6.26	
3/22/2017	6.32	
5/3/2017	6.29	
6/7/2017	6.27	
9/14/2017	6.25	
1/24/2018	6.35	
5/2/2018	6.29	
11/28/2018	6.33	
5/29/2019	6.18	
9/30/2019		6.36
3/30/2020		6.32
9/2/2020		6.25
5/18/2021		6.4

Prediction Limit

Constituent: pH, field (SU) Analysis Run 7/8/2021 12:06 PM View: Appendix III Trend

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-8	BY-AP-MW-8
3/1/2016	6.21	
4/20/2016	6.22	
6/7/2016	6.26	
8/30/2016	6.21	
10/18/2016	6.21	
1/31/2017	6.17	
3/22/2017	6.22	
5/3/2017	6.22	
6/7/2017	6.21	
9/14/2017	6.18	
1/24/2018	6.16	
5/2/2018	6.17	
8/29/2018	6.21	
11/27/2018	6.18	
5/29/2019	6.11	
9/30/2019		6.19
3/30/2020		6.2
9/2/2020		5.89
5/11/2021		6.25

Prediction Limit

Constituent: pH, field (SU) Analysis Run 7/8/2021 12:06 PM View: Appendix III Trend

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-9	BY-AP-MW-9
3/1/2016	6.26	
4/20/2016	6.26	
6/8/2016	6.25	
8/31/2016	6.29	
10/19/2016	6.22	
2/1/2017	6.24	
3/22/2017	6.28	
5/3/2017	6.17	
6/7/2017	6.24	
9/14/2017	6.24	
1/23/2018	6.3	
5/2/2018	6.31	
8/28/2018	6.28	
11/28/2018	6.32	
5/30/2019	6.14	
9/30/2019		6.07
3/31/2020		6.31
9/2/2020		5.97
5/18/2021		6.3

Prediction Limit

Constituent: pH, field (SU) Analysis Run 7/8/2021 12:06 PM View: Appendix III Trend

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-GSA-MW-1	BY-GSA-MW-1
2/23/2016	4.62	
4/19/2016	4.74	
6/6/2016	4.65	
8/30/2016	4.64	
10/18/2016	4.74	
1/31/2017	4.54	
3/20/2017	4.67	
5/2/2017	4.79	
6/6/2017	4.76	
9/13/2017	4.81	
1/23/2018	4.79	
5/2/2018	4.62	
11/27/2018	4.73	
5/29/2019	4.65	
10/2/2019		4.57
3/31/2020		4.64
9/9/2020		4.65
5/12/2021		4.74

Prediction Limit

Constituent: pH, field (SU) Analysis Run 7/8/2021 12:06 PM View: Appendix III Trend

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-GSA-MW-2	BY-GSA-MW-2
2/23/2016	4.79	
4/19/2016	4.84	
6/7/2016	4.81	
8/30/2016	4.76	
10/18/2016	4.84	
1/31/2017	4.6	
3/20/2017	4.71	
5/2/2017	4.8	
6/6/2017	4.72	
9/13/2017	4.71	
1/23/2018	4.67	
5/1/2018	4.61	
11/27/2018	4.72	
5/29/2019	4.58	
10/2/2019		4.43
3/31/2020		4.6
9/9/2020		4.67
5/11/2021		4.29

Prediction Limit

Constituent: pH, field (SU) Analysis Run 7/8/2021 12:06 PM View: Appendix III Trend

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-GSA-MW-3	BY-GSA-MW-3
2/23/2016	4.96	
4/19/2016	4.94	
6/7/2016	4.96	
8/30/2016	4.92	
10/18/2016	4.98	
1/31/2017	4.74	
3/20/2017	4.9	
5/2/2017	4.98	
6/6/2017	4.94	
9/13/2017	4.93	
1/23/2018	4.91	
5/1/2018	4.87	
11/27/2018	4.94	
5/29/2019	4.8	
10/2/2019		4.52
3/31/2020		4.4
9/9/2020		4.76
5/11/2021		4.53

Prediction Limit

Constituent: pH, field (SU) Analysis Run 7/8/2021 12:06 PM View: Appendix III Trend

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-GSA-MW-4	BY-GSA-MW-4
2/23/2016	4.74	
4/19/2016	4.86	
6/6/2016	4.88	
8/30/2016	4.91	
10/18/2016	4.95	
1/31/2017	4.71	
3/20/2017	4.83	
5/2/2017	4.93	
6/6/2017	4.9	
9/12/2017	4.82	
1/23/2018	4.85	
5/1/2018	4.8	
11/26/2018	4.88	
5/28/2019	4.73	
10/2/2019		4.67
3/31/2020		4.51
9/8/2020		4.75
5/11/2021		4.67

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/8/2021 12:06 PM View: Appendix III Trend

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-1
3/2/2016	0.31 (J)	
4/19/2016	0.335 (J)	
6/8/2016	0.556 (J)	
8/31/2016	<5	
10/19/2016	<5	
3/21/2017	<5	
5/2/2017	6	
6/6/2017	<5	
9/13/2017	4.7 (J)	
5/1/2018	<5	
8/28/2018	<5	
11/28/2018	4.1 (J)	
5/29/2019	5.75	
10/1/2019		7.82
3/30/2020		28.4
9/1/2020		23.1
5/18/2021		16.5

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/8/2021 12:06 PM View: Appendix III Trend

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-10	BY-AP-MW-10
3/1/2016	0.34 (J)	
4/20/2016	<5	
6/8/2016	0.538 (J)	
8/31/2016	<5	
10/19/2016	<5	
3/22/2017	<5	
5/3/2017	4.1 (J)	
6/7/2017	<5	
9/14/2017	<5	
5/2/2018	<5	
8/28/2018	<5	
11/28/2018	<5	
5/30/2019	3.76	
9/30/2019		2.77
3/31/2020		20.1
9/1/2020		15.6
5/11/2021		13.2

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/8/2021 12:06 PM View: Appendix III Trend

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-11	BY-AP-MW-11
3/1/2016	1.02	
4/20/2016	1.1	
6/8/2016	0.701 (J)	
8/31/2016	<5	
10/19/2016	<5	
3/22/2017	2.1 (J)	
5/3/2017	3.6 (J)	
6/7/2017	<5	
9/13/2017	<5	
5/2/2018	<5	
8/29/2018	2.3 (J)	
11/28/2018	<5	
5/29/2019	24.1	
9/30/2019		37.4
3/31/2020		57.5
9/1/2020		42.8
5/19/2021		16.5

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/8/2021 12:06 PM View: Appendix III Trend

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-12	BY-AP-MW-12
3/2/2016	<5	
4/20/2016	<5	
6/8/2016	0.511 (J)	
8/31/2016	<5	
10/19/2016	<5	
3/22/2017	<5	
5/3/2017	2.1 (J)	
6/7/2017	<5	
9/13/2017	<5	
5/2/2018	<5	
8/29/2018	<5	
11/28/2018	<50 (o)	
5/29/2019	7.04	
10/1/2019		35.3
3/31/2020		35.8
9/1/2020		32.1
5/18/2021		25.1

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/8/2021 12:06 PM View: Appendix III Trend

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-13	BY-AP-MW-13
3/2/2016	<5	
4/20/2016	<5	
6/8/2016	0.496 (J)	
8/31/2016	<5	
10/19/2016	<5	
3/22/2017	6.9	
5/3/2017	6.6	
6/7/2017	6	
9/13/2017	2.2 (J)	
5/2/2018	4.1 (J)	
8/29/2018	<5	
11/28/2018	4.9 (J)	
5/29/2019	49.5	
10/1/2019		47.7
3/31/2020		23.2
9/1/2020		14.2
5/19/2021		50.4

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/8/2021 12:06 PM View: Appendix III Trend

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14	BY-AP-MW-14
3/2/2016	<5	
4/20/2016	<5	
6/8/2016	0.514 (J)	
8/30/2016	<5	
10/18/2016	<5	
3/22/2017	<5	
5/2/2017	1.8 (J)	
6/6/2017	<5	
9/13/2017	<5	
5/2/2018	1.6 (J)	
8/29/2018	<5	
11/27/2018	<5	
5/29/2019	67.6	
10/1/2019		61.6
3/31/2020		34.7
9/2/2020		18.5
5/25/2021		59.2

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/8/2021 12:06 PM View: Appendix III Trend

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15	BY-AP-MW-15
3/2/2016	<5	
4/19/2016	<5	
6/8/2016	0.489 (J)	
8/31/2016	<5	
10/19/2016	<5	
3/21/2017	<5	
5/2/2017	<5	
6/6/2017	<5	
9/13/2017	<5	
5/1/2018	<5	
8/29/2018	6.2	
11/27/2018	<5	
5/29/2019	3.27	
10/1/2019		1.72
4/1/2020		7.5
9/2/2020		7.61
5/11/2021		7.54

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/8/2021 12:06 PM View: Appendix III Trend

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-16	BY-AP-MW-16
3/2/2016	<5	
4/19/2016	<5	
6/8/2016	0.514 (J)	
8/31/2016	<5	
10/19/2016	<5	
3/21/2017	<5	
5/2/2017	<5	
6/6/2017	<5	
9/13/2017	2.6 (J)	
5/1/2018	<5	
8/29/2018	3.9 (J)	
11/27/2018	<5	
5/29/2019	6.72	
10/1/2019		3.4
3/31/2020		17.5
9/2/2020		13.3
5/19/2021		3.11

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/8/2021 12:06 PM View: Appendix III Trend

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-2	BY-AP-MW-2
3/2/2016	3.3	
4/19/2016	2.68	
6/8/2016	1.1	
8/31/2016	<1	
10/19/2016	<1	
3/21/2017	<1	
5/2/2017	<1	
6/6/2017	<1	
9/12/2017	<1	
5/1/2018	<1	
8/28/2018	<1	
11/27/2018	<1	
5/29/2019	0.885 (J)	
10/1/2019		<1
3/31/2020		1.69
8/31/2020		0.576 (J)
5/18/2021		<1

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/8/2021 12:06 PM View: Appendix III Trend

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-3	BY-AP-MW-3
3/2/2016	0.79 (J)	
4/19/2016	0.674 (J)	
6/7/2016	1	
8/31/2016	0.702 (J)	
10/19/2016	0.739 (J)	
3/21/2017	<5	
5/2/2017	<5	
6/6/2017	<5	
9/12/2017	<5	
5/1/2018	<5	
8/28/2018	<5	
11/27/2018	<5	
5/29/2019	0.747 (J)	
10/1/2019		0.61 (J)
3/31/2020		1.02
9/1/2020		0.705 (J)
5/18/2021		0.883 (J)

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/8/2021 12:06 PM View: Appendix III Trend

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-4	BY-AP-MW-4
3/1/2016	2.58	
4/19/2016	2.3	
6/7/2016	2.58	
8/30/2016	2.81	
10/19/2016	5.06	
3/21/2017	3.4 (J)	
5/2/2017	2.7 (J)	
6/6/2017	1.5 (J)	
9/12/2017	1.9 (J)	
5/1/2018	1.4 (J)	
8/28/2018	<5	
11/27/2018	2.3 (J)	
5/29/2019	2.92	
10/1/2019		2.09
3/31/2020		4.12
9/1/2020		1.83
5/18/2021		4.43

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/8/2021 12:06 PM View: Appendix III Trend

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-6	BY-AP-MW-6
3/1/2016	0.36 (J)	
4/19/2016	0.435 (J)	
6/7/2016	1.22	
8/30/2016	1.08	
10/19/2016	1.01	
3/22/2017	<5	
5/3/2017	1.4 (J)	
6/7/2017	1.5 (J)	
9/14/2017	1.8 (J)	
5/2/2018	<5	
8/29/2018	<5	
11/28/2018	<5	
5/29/2019	1.17	
10/1/2019		1.04
3/31/2020		1.21
9/2/2020		1.02
5/17/2021		0.981 (J)

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/8/2021 12:06 PM View: Appendix III Trend

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7	BY-AP-MW-7
3/1/2016	0.3 (J)	
4/20/2016	0.514 (J)	
6/7/2016	0.971 (J)	
8/31/2016	0.445 (J)	
10/19/2016	0.366 (J)	
3/22/2017	<5	
5/3/2017	<5	
6/7/2017	<5	
9/14/2017	<5	
5/2/2018	<5	
11/28/2018	<5	
5/29/2019	2.77	
9/30/2019		2.51
3/30/2020		4.78
9/2/2020		3.59
5/18/2021		4.6

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/8/2021 12:06 PM View: Appendix III Trend

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-8	BY-AP-MW-8
3/1/2016	<5	
4/20/2016	<5	
6/7/2016	0.504 (J)	
8/30/2016	<5	
10/18/2016	<5	
3/22/2017	<5	
5/3/2017	2.7 (J)	
6/7/2017	<5	
9/14/2017	<5	
5/2/2018	<5	
8/29/2018	<5	
11/27/2018	<5	
5/29/2019	6.01	
9/30/2019		5.29
3/30/2020		33.1
9/2/2020		15.8
5/11/2021		35.4

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/8/2021 12:06 PM View: Appendix III Trend

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-9	BY-AP-MW-9
3/1/2016	<5	
4/20/2016	<5	
6/8/2016	0.51 (J)	
8/31/2016	<5	
10/19/2016	<5	
3/22/2017	<5	
5/3/2017	2.7 (J)	
6/7/2017	<5	
9/14/2017	<5	
5/2/2018	<5	
8/28/2018	<5	
11/28/2018	1.4 (J)	
5/30/2019	5.91	
9/30/2019		3.77
3/31/2020		43.5
9/2/2020		21.9
5/18/2021		27.7

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/8/2021 12:06 PM View: Appendix III Trend

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-GSA-MW-1	BY-GSA-MW-1
2/23/2016	8.59	
4/19/2016	8.27	
6/6/2016	8.66	
8/30/2016	9.74	
10/18/2016	10.2	
3/20/2017	8.3	
5/2/2017	6.6	
6/6/2017	7.6	
9/13/2017	8.4	
5/2/2018	5.9	
11/27/2018	22	
5/29/2019	23.3	
10/2/2019		17.5
3/31/2020		24.3
9/9/2020		16.5
5/12/2021		16.3

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/8/2021 12:06 PM View: Appendix III Trend

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-GSA-MW-2	BY-GSA-MW-2
2/23/2016	7.2	
4/19/2016	7.22	
6/7/2016	7.92	
8/30/2016	8.17	
10/18/2016	7.99	
3/20/2017	6.1	
5/2/2017	5	
6/6/2017	5.3	
9/13/2017	4.9 (J)	
5/1/2018	4.2 (J)	
5/29/2019	5.94	
10/2/2019		6.04
3/31/2020		6.83
9/9/2020		6.08
5/11/2021		7.92

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/8/2021 12:06 PM View: Appendix III Trend

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-GSA-MW-3	BY-GSA-MW-3
2/23/2016	7.44	
4/19/2016	7.66	
6/7/2016	8.16	
8/30/2016	8.43	
10/18/2016	8.47	
3/20/2017	7.4	
5/2/2017	6.3	
6/6/2017	7.1	
9/13/2017	7.3	
5/1/2018	6.9	
11/27/2018	6.5	
5/29/2019	7.81	
10/2/2019		7.62
3/31/2020		7.98
9/9/2020		7.13
5/11/2021		7.73

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/8/2021 12:06 PM View: Appendix III Trend

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-GSA-MW-4	BY-GSA-MW-4
2/23/2016	7.04	
4/19/2016	6.74	
6/6/2016	7.04	
8/30/2016	7.57	
10/18/2016	6.62	
3/20/2017	7	
5/2/2017	5.6	
6/6/2017	6.6	
9/12/2017	7.2	
5/1/2018	5.9	
11/26/2018	5.1	
5/28/2019	7.1	
10/2/2019		6.88
3/31/2020		10.8
9/8/2020		6.52
5/11/2021		6.8

FIGURE E.

Interwell Prediction Limits - Significant Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 7/8/2021, 11:18 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NB	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	BY-AP-MW-1	0.188	n/a	5/18/2021	1.99	Yes	63	n/a	n/a	n/a	80.95	n/a	n/a	0.000471	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-10	0.188	n/a	5/11/2021	1.99	Yes	63	n/a	n/a	n/a	80.95	n/a	n/a	0.000471	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-16	0.188	n/a	5/19/2021	1.74	Yes	63	n/a	n/a	n/a	80.95	n/a	n/a	0.000471	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-8	0.188	n/a	5/11/2021	0.971	Yes	63	n/a	n/a	n/a	80.95	n/a	n/a	0.000471	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-9	0.188	n/a	5/18/2021	2.08	Yes	63	n/a	n/a	n/a	80.95	n/a	n/a	0.000471	NP Inter (NDs) 1 of 2
Calcium (mg/L)	BY-AP-MW-1	2.09	n/a	5/18/2021	39.5	Yes	64	1.486	0.2843	0	None	No	No	0.0004702	Param Inter 1 of 2
Calcium (mg/L)	BY-AP-MW-10	2.09	n/a	5/11/2021	62.7	Yes	64	1.486	0.2843	0	None	No	No	0.0004702	Param Inter 1 of 2
Calcium (mg/L)	BY-AP-MW-11	2.09	n/a	5/19/2021	41.5	Yes	64	1.486	0.2843	0	None	No	No	0.0004702	Param Inter 1 of 2
Calcium (mg/L)	BY-AP-MW-12	2.09	n/a	5/18/2021	23.1	Yes	64	1.486	0.2843	0	None	No	No	0.0004702	Param Inter 1 of 2
Calcium (mg/L)	BY-AP-MW-13	2.09	n/a	5/19/2021	12.9	Yes	64	1.486	0.2843	0	None	No	No	0.0004702	Param Inter 1 of 2
Calcium (mg/L)	BY-AP-MW-14	2.09	n/a	5/25/2021	11.2	Yes	64	1.486	0.2843	0	None	No	No	0.0004702	Param Inter 1 of 2
Calcium (mg/L)	BY-AP-MW-15	2.09	n/a	5/11/2021	6.98	Yes	64	1.486	0.2843	0	None	No	No	0.0004702	Param Inter 1 of 2
Calcium (mg/L)	BY-AP-MW-16	2.09	n/a	5/19/2021	14.2	Yes	64	1.486	0.2843	0	None	No	No	0.0004702	Param Inter 1 of 2
Calcium (mg/L)	BY-AP-MW-2	2.09	n/a	5/18/2021	3.17	Yes	64	1.486	0.2843	0	None	No	No	0.0004702	Param Inter 1 of 2
Calcium (mg/L)	BY-AP-MW-7	2.09	n/a	5/18/2021	10.2	Yes	64	1.486	0.2843	0	None	No	No	0.0004702	Param Inter 1 of 2
Calcium (mg/L)	BY-AP-MW-8	2.09	n/a	5/11/2021	33	Yes	64	1.486	0.2843	0	None	No	No	0.0004702	Param Inter 1 of 2
Calcium (mg/L)	BY-AP-MW-9	2.09	n/a	5/18/2021	40.5	Yes	64	1.486	0.2843	0	None	No	No	0.0004702	Param Inter 1 of 2
Chloride (mg/L)	BY-AP-MW-1	9.9	n/a	5/18/2021	25.1	Yes	64	n/a	n/a	0	n/a	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
Chloride (mg/L)	BY-AP-MW-10	9.9	n/a	5/11/2021	27.3	Yes	64	n/a	n/a	0	n/a	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
Chloride (mg/L)	BY-AP-MW-11	9.9	n/a	5/19/2021	23.1	Yes	64	n/a	n/a	0	n/a	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
Chloride (mg/L)	BY-AP-MW-12	9.9	n/a	5/18/2021	25.4	Yes	64	n/a	n/a	0	n/a	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
Chloride (mg/L)	BY-AP-MW-13	9.9	n/a	5/19/2021	46.8	Yes	64	n/a	n/a	0	n/a	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
Chloride (mg/L)	BY-AP-MW-14	9.9	n/a	5/25/2021	52.1	Yes	64	n/a	n/a	0	n/a	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
Chloride (mg/L)	BY-AP-MW-15	9.9	n/a	5/11/2021	80	Yes	64	n/a	n/a	0	n/a	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
Chloride (mg/L)	BY-AP-MW-16	9.9	n/a	5/19/2021	21.4	Yes	64	n/a	n/a	0	n/a	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
Chloride (mg/L)	BY-AP-MW-7	9.9	n/a	5/18/2021	14.2	Yes	64	n/a	n/a	0	n/a	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
Chloride (mg/L)	BY-AP-MW-8	9.9	n/a	5/11/2021	21.9	Yes	64	n/a	n/a	0	n/a	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
Chloride (mg/L)	BY-AP-MW-9	9.9	n/a	5/18/2021	18.3	Yes	64	n/a	n/a	0	n/a	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BY-AP-MW-10	0.1	n/a	5/11/2021	0.105	Yes	68	n/a	n/a	50	n/a	n/a	n/a	0.0004064	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BY-AP-MW-15	0.1	n/a	5/11/2021	0.214	Yes	68	n/a	n/a	50	n/a	n/a	n/a	0.0004064	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BY-AP-MW-7	0.1	n/a	5/18/2021	0.11	Yes	68	n/a	n/a	50	n/a	n/a	n/a	0.0004064	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-1	58	n/a	5/18/2021	450	Yes	64	n/a	n/a	10.94	n/a	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-10	58	n/a	5/11/2021	391	Yes	64	n/a	n/a	10.94	n/a	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-11	58	n/a	5/19/2021	422	Yes	64	n/a	n/a	10.94	n/a	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-12	58	n/a	5/18/2021	332	Yes	64	n/a	n/a	10.94	n/a	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-13	58	n/a	5/19/2021	300	Yes	64	n/a	n/a	10.94	n/a	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-14	58	n/a	5/25/2021	318	Yes	64	n/a	n/a	10.94	n/a	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-15	58	n/a	5/11/2021	279	Yes	64	n/a	n/a	10.94	n/a	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-16	58	n/a	5/19/2021	274	Yes	64	n/a	n/a	10.94	n/a	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-7	58	n/a	5/18/2021	175	Yes	64	n/a	n/a	10.94	n/a	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-8	58	n/a	5/11/2021	318	Yes	64	n/a	n/a	10.94	n/a	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-9	58	n/a	5/18/2021	314	Yes	64	n/a	n/a	10.94	n/a	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 7/8/2021, 11:18 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Obsv.	Sig.	Bg	NBg	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	BY-AP-MW-1	0.188	n/a	5/18/2021	1.99	Yes 63	n/a	n/a	n/a	n/a	80.95	n/a	n/a	0.000471	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-10	0.188	n/a	5/11/2021	1.99	Yes 63	n/a	n/a	n/a	n/a	80.95	n/a	n/a	0.000471	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-11	0.188	n/a	5/19/2021	0.0856J	No 63	n/a	n/a	n/a	n/a	80.95	n/a	n/a	0.000471	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-12	0.188	n/a	5/18/2021	0.0927J	No 63	n/a	n/a	n/a	n/a	80.95	n/a	n/a	0.000471	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-13	0.188	n/a	5/19/2021	0.0604J	No 63	n/a	n/a	n/a	n/a	80.95	n/a	n/a	0.000471	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-14	0.188	n/a	5/25/2021	0.074J	No 63	n/a	n/a	n/a	n/a	80.95	n/a	n/a	0.000471	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-15	0.188	n/a	5/11/2021	0.109	No 63	n/a	n/a	n/a	n/a	80.95	n/a	n/a	0.000471	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-16	0.188	n/a	5/19/2021	1.74	Yes 63	n/a	n/a	n/a	n/a	80.95	n/a	n/a	0.000471	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-2	0.188	n/a	5/18/2021	0.1015ND	No 63	n/a	n/a	n/a	n/a	80.95	n/a	n/a	0.000471	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-3	0.188	n/a	5/18/2021	0.1015ND	No 63	n/a	n/a	n/a	n/a	80.95	n/a	n/a	0.000471	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-4	0.188	n/a	5/18/2021	0.1015ND	No 63	n/a	n/a	n/a	n/a	80.95	n/a	n/a	0.000471	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-6	0.188	n/a	5/17/2021	0.1015ND	No 63	n/a	n/a	n/a	n/a	80.95	n/a	n/a	0.000471	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-7	0.188	n/a	5/18/2021	0.037J	No 63	n/a	n/a	n/a	n/a	80.95	n/a	n/a	0.000471	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-8	0.188	n/a	5/11/2021	0.971	Yes 63	n/a	n/a	n/a	n/a	80.95	n/a	n/a	0.000471	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-9	0.188	n/a	5/18/2021	2.08	Yes 63	n/a	n/a	n/a	n/a	80.95	n/a	n/a	0.000471	NP Inter (NDs) 1 of 2
Calcium (mg/L)	BY-AP-MW-1	2.09	n/a	5/18/2021	39.5	Yes 64	1.486	0.2843	0	None	No	0.0004702	Param Inter 1 of 2		
Calcium (mg/L)	BY-AP-MW-10	2.09	n/a	5/11/2021	62.7	Yes 64	1.486	0.2843	0	None	No	0.0004702	Param Inter 1 of 2		
Calcium (mg/L)	BY-AP-MW-11	2.09	n/a	5/19/2021	41.5	Yes 64	1.486	0.2843	0	None	No	0.0004702	Param Inter 1 of 2		
Calcium (mg/L)	BY-AP-MW-12	2.09	n/a	5/18/2021	23.1	Yes 64	1.486	0.2843	0	None	No	0.0004702	Param Inter 1 of 2		
Calcium (mg/L)	BY-AP-MW-13	2.09	n/a	5/19/2021	12.9	Yes 64	1.486	0.2843	0	None	No	0.0004702	Param Inter 1 of 2		
Calcium (mg/L)	BY-AP-MW-14	2.09	n/a	5/25/2021	11.2	Yes 64	1.486	0.2843	0	None	No	0.0004702	Param Inter 1 of 2		
Calcium (mg/L)	BY-AP-MW-15	2.09	n/a	5/11/2021	6.98	Yes 64	1.486	0.2843	0	None	No	0.0004702	Param Inter 1 of 2		
Calcium (mg/L)	BY-AP-MW-16	2.09	n/a	5/19/2021	14.2	Yes 64	1.486	0.2843	0	None	No	0.0004702	Param Inter 1 of 2		
Calcium (mg/L)	BY-AP-MW-2	2.09	n/a	5/18/2021	3.17	Yes 64	1.486	0.2843	0	None	No	0.0004702	Param Inter 1 of 2		
Calcium (mg/L)	BY-AP-MW-3	2.09	n/a	5/18/2021	1.12	No 64	1.486	0.2843	0	None	No	0.0004702	Param Inter 1 of 2		
Calcium (mg/L)	BY-AP-MW-4	2.09	n/a	5/18/2021	0.974	No 64	1.486	0.2843	0	None	No	0.0004702	Param Inter 1 of 2		
Calcium (mg/L)	BY-AP-MW-6	2.09	n/a	5/17/2021	1.93	No 64	1.486	0.2843	0	None	No	0.0004702	Param Inter 1 of 2		
Calcium (mg/L)	BY-AP-MW-7	2.09	n/a	5/18/2021	10.2	Yes 64	1.486	0.2843	0	None	No	0.0004702	Param Inter 1 of 2		
Calcium (mg/L)	BY-AP-MW-8	2.09	n/a	5/11/2021	33	Yes 64	1.486	0.2843	0	None	No	0.0004702	Param Inter 1 of 2		
Calcium (mg/L)	BY-AP-MW-9	2.09	n/a	5/18/2021	40.5	Yes 64	1.486	0.2843	0	None	No	0.0004702	Param Inter 1 of 2		
Chloride (mg/L)	BY-AP-MW-1	9.9	n/a	5/18/2021	25.1	Yes 64	n/a	n/a	0	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2		
Chloride (mg/L)	BY-AP-MW-10	9.9	n/a	5/11/2021	27.3	Yes 64	n/a	n/a	0	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2		
Chloride (mg/L)	BY-AP-MW-11	9.9	n/a	5/19/2021	23.1	Yes 64	n/a	n/a	0	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2		
Chloride (mg/L)	BY-AP-MW-12	9.9	n/a	5/18/2021	25.4	Yes 64	n/a	n/a	0	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2		
Chloride (mg/L)	BY-AP-MW-13	9.9	n/a	5/19/2021	46.8	Yes 64	n/a	n/a	0	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2		
Chloride (mg/L)	BY-AP-MW-14	9.9	n/a	5/25/2021	52.1	Yes 64	n/a	n/a	0	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2		
Chloride (mg/L)	BY-AP-MW-15	9.9	n/a	5/11/2021	80	Yes 64	n/a	n/a	0	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2		
Chloride (mg/L)	BY-AP-MW-16	9.9	n/a	5/19/2021	21.4	Yes 64	n/a	n/a	0	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2		
Chloride (mg/L)	BY-AP-MW-2	9.9	n/a	5/18/2021	7.89	No 64	n/a	n/a	0	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2		
Chloride (mg/L)	BY-AP-MW-3	9.9	n/a	5/18/2021	9.52	No 64	n/a	n/a	0	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2		
Chloride (mg/L)	BY-AP-MW-4	9.9	n/a	5/18/2021	9.53	No 64	n/a	n/a	0	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2		
Chloride (mg/L)	BY-AP-MW-6	9.9	n/a	5/17/2021	6.26	No 64	n/a	n/a	0	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2		
Chloride (mg/L)	BY-AP-MW-7	9.9	n/a	5/18/2021	14.2	Yes 64	n/a	n/a	0	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2		
Chloride (mg/L)	BY-AP-MW-8	9.9	n/a	5/11/2021	21.9	Yes 64	n/a	n/a	0	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2		
Chloride (mg/L)	BY-AP-MW-9	9.9	n/a	5/18/2021	18.3	Yes 64	n/a	n/a	0	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2		
Fluoride (mg/L)	BY-AP-MW-1	0.1	n/a	5/18/2021	0.0884J	No 68	n/a	n/a	50	n/a	n/a	0.0004064	NP Inter (normality) 1 of 2		
Fluoride (mg/L)	BY-AP-MW-10	0.1	n/a	5/11/2021	0.105	Yes 68	n/a	n/a	50	n/a	n/a	0.0004064	NP Inter (normality) 1 of 2		
Fluoride (mg/L)	BY-AP-MW-11	0.1	n/a	5/19/2021	0.0994J	No 68	n/a	n/a	50	n/a	n/a	0.0004064	NP Inter (normality) 1 of 2		
Fluoride (mg/L)	BY-AP-MW-12	0.1	n/a	5/18/2021	0.0614J	No 68	n/a	n/a	50	n/a	n/a	0.0004064	NP Inter (normality) 1 of 2		
Fluoride (mg/L)	BY-AP-MW-13	0.1	n/a	5/19/2021	0.0748J	No 68	n/a	n/a	50	n/a	n/a	0.0004064	NP Inter (normality) 1 of 2		
Fluoride (mg/L)	BY-AP-MW-14	0.1	n/a	5/25/2021	0.0957J	No 68	n/a	n/a	50	n/a	n/a	0.0004064	NP Inter (normality) 1 of 2		
Fluoride (mg/L)	BY-AP-MW-15	0.1	n/a	5/11/2021	0.214	Yes 68	n/a	n/a	50	n/a	n/a	0.0004064	NP Inter (normality) 1 of 2		
Fluoride (mg/L)	BY-AP-MW-16	0.1	n/a	5/19/2021	0.0793J	No 68	n/a	n/a	50	n/a	n/a	0.0004064	NP Inter (normality) 1 of 2		
Fluoride (mg/L)	BY-AP-MW-2	0.1	n/a	5/18/2021	0.1ND	No 68	n/a	n/a	50	n/a	n/a	0.0004064	NP Inter (normality) 1 of 2		
Fluoride (mg/L)	BY-AP-MW-3	0.1	n/a	5/18/2021	0.1ND	No 68	n/a	n/a	50	n/a	n/a	0.0004064	NP Inter (normality) 1 of 2		
Fluoride (mg/L)	BY-AP-MW-4	0.1	n/a	5/18/2021	0.1ND	No 68	n/a	n/a	50	n/a	n/a	0.0004064	NP Inter (normality) 1 of 2		
Fluoride (mg/L)	BY-AP-MW-6	0.1	n/a	5/17/2021	0.1ND	No 68	n/a	n/a	50	n/a	n/a	0.0004064	NP Inter (normality) 1 of 2		
Fluoride (mg/L)	BY-AP-MW-7	0.1	n/a	5/18/2021	0.11	Yes 68	n/a	n/a	50	n/a	n/a	0.0004064	NP Inter (normality) 1 of 2		
Fluoride (mg/L)	BY-AP-MW-8	0.1	n/a	5/11/2021	0.094J	No 68	n/a	n/a	50	n/a	n/a	0.0004064	NP Inter (normality) 1 of 2		
Fluoride (mg/L)	BY-AP-MW-9	0.1	n/a	5/18/2021	0.0709J	No 68	n/a	n/a	50	n/a	n/a	0.0004064	NP Inter (normality) 1 of 2		
TDS (mg/L)	BY-AP-MW-1	58	n/a	5/18/2021	450	Yes 64	n/a	n/a	10.94	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2		
TDS (mg/L)	BY-AP-MW-10	58	n/a	5/11/2021	391	Yes 64	n/a	n/a	10.94	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2		
TDS (mg/L)	BY-AP-MW-11	58	n/a	5/19/2021	422	Yes 64	n/a	n/a	10.94	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2		
TDS (mg/L)	BY-AP-MW-12	58	n/a	5/18/2021	332	Yes 64	n/a	n/a	10.94	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2		
TDS (mg/L)	BY-AP-MW-13	58	n/a	5/19/2021	300	Yes 64	n/a	n/a	10.94	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2		
TDS (mg/L)	BY-AP-MW-14	58	n/a	5/25/2021	318	Yes 64	n/a	n/a	10.94	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2		
TDS (mg/L)	BY-AP-MW-15	58	n/a	5/11/2021	279	Yes 64	n/a	n/a	10.94	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2		
TDS (mg/L)	BY-AP-MW-16	58	n/a	5/19/2021	274	Yes 64	n/a	n/a	10.94	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2		

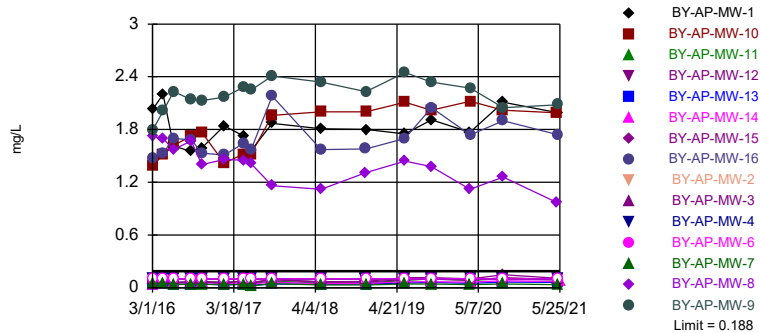
Interwell Prediction Limits - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 7/8/2021, 11:18 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NB	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
TDS (mg/L)	BY-AP-MW-2	58	n/a	5/18/2021	48.7	No	64	n/a	n/a	n/a	10.94	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-3	58	n/a	5/18/2021	38	No	64	n/a	n/a	n/a	10.94	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-4	58	n/a	5/18/2021	47.3	No	64	n/a	n/a	n/a	10.94	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-6	58	n/a	5/17/2021	46.7	No	64	n/a	n/a	n/a	10.94	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-7	58	n/a	5/18/2021	175	Yes	64	n/a	n/a	n/a	10.94	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-8	58	n/a	5/11/2021	318	Yes	64	n/a	n/a	n/a	10.94	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-9	58	n/a	5/18/2021	314	Yes	64	n/a	n/a	n/a	10.94	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2

Exceeds Limit: BY-AP-MW-1, BY-AP-MW-10, BY-AP-MW-16, BY-AP-MW-8, BY-AP-MW-9

Prediction Limit
Interwell Non-parametric

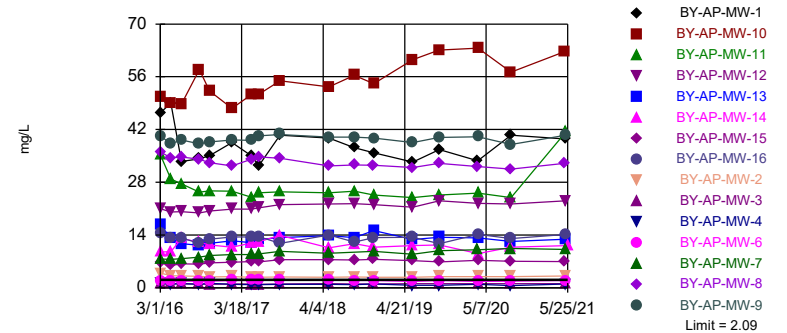


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 63 background values. 80.95% NDs. Annual per-constituent alpha = 0.01496. Individual comparison alpha = 0.000471 (1 of 2). Comparing 15 points to limit. Assumes 1 future value.

Constituent: Boron Analysis Run 7/8/2021 11:16 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limit: BY-AP-MW-1, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15,...

Prediction Limit
Interwell Parametric

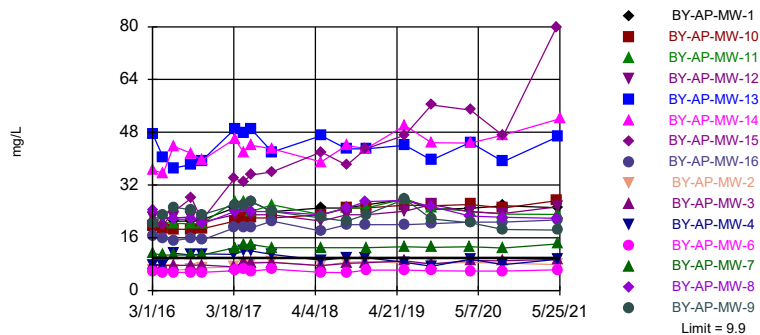


Background Data Summary: Mean=1.486, Std. Dev.=0.2843, n=64. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9837, critical = 0.947. Kappa = 2.122 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0004702. Comparing 15 points to limit. Assumes 1 future value.

Constituent: Calcium Analysis Run 7/8/2021 11:16 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limit: BY-AP-MW-1, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15,...

Prediction Limit
Interwell Non-parametric

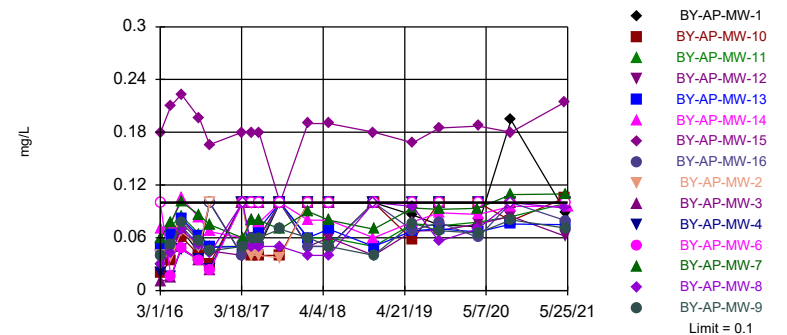


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 64 background values. 50% NDs. Annual per-constituent alpha = 0.01456. Individual comparison alpha = 0.0004581 (1 of 2). Comparing 15 points to limit. Assumes 1 future value.

Constituent: Chloride Analysis Run 7/8/2021 11:16 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limit: BY-AP-MW-10, BY-AP-MW-15, BY-AP-MW-7

Prediction Limit
Interwell Non-parametric

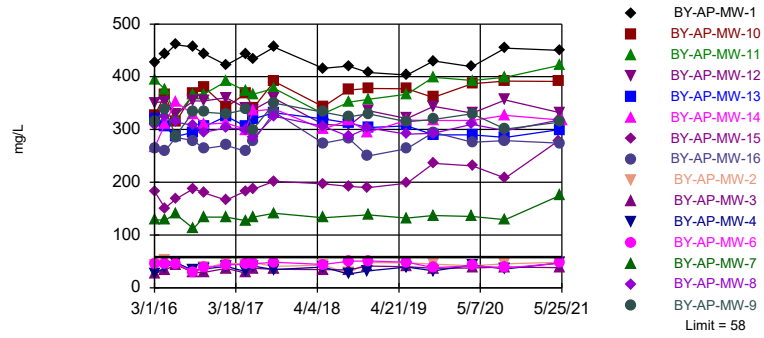


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 68 background values. 50% NDs. Annual per-constituent alpha = 0.01292. Individual comparison alpha = 0.0004064 (1 of 2). Comparing 15 points to limit. Assumes 1 future value.

Constituent: Fluoride Analysis Run 7/8/2021 11:16 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limit: BY-AP-MW-1, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15,...

Prediction Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 64 background values. 10.94% NDs. Annual per-constituent alpha = 0.01456. Individual comparison alpha = 0.0004581 (1 of 2). Comparing 15 points to limit. Assumes 1 future value.

Constituent: TDS Analysis Run 7/8/2021 11:16 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/8/2021 11:18 AM View: Appendix III Trend

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-10	BY-AP-MW-9	BY-AP-MW-12	BY-AP-MW-14	BY-AP-MW-15	BY-AP-MW-16	BY-AP-MW-2	BY-AP-MW-13	BY-AP-MW-1
2/23/2016									
3/1/2016	1.39	1.79							
3/2/2016			0.0502 (J)	0.0395 (J)	0.0447 (J)	1.47	<0.1015	0.0328 (J)	2.03
4/19/2016					0.0645 (J)	1.53	<0.1015		2.2
4/20/2016	1.51	2.01	0.0672 (J)	0.0549 (J)				0.0434 (J)	
6/6/2016									
6/7/2016									
6/8/2016	1.62	2.23	0.0659 (J)	0.0593 (J)	0.0592 (J)	1.7	<0.1015	0.0391 (J)	1.61
8/30/2016				0.0534 (J)					
8/31/2016	1.73	2.14	0.065 (J)		0.0632 (J)	1.68	<0.1015	0.0401 (J)	1.55
10/18/2016				0.0597 (J)					
10/19/2016	1.77	2.13	0.0721 (J)		0.0637 (J)	1.53	<0.1015	0.0427 (J)	1.59
1/31/2017				0.0479 (J)	0.0536 (J)	1.51	<0.1015	0.034 (J)	1.84
2/1/2017	1.42	2.17	0.06 (J)						
5/2/2017				0.0587 (J)	0.0775 (J)	1.64	<0.1015		1.73
5/3/2017	1.52	2.28	0.0768 (J)					0.0416 (J)	
6/6/2017				0.0428 (J)	0.0535 (J)	1.57	<0.1015		1.56
6/7/2017	1.52	2.25	0.0625 (J)					0.0277 (J)	
9/12/2017							<0.1015		
9/13/2017			0.0926 (J)	0.0647 (J)	0.0937 (J)	2.18		0.044 (J)	1.87
9/14/2017	1.96	2.41							
5/1/2018					0.0683 (J)	1.57	<0.1015		1.81
5/2/2018	2	2.34	0.064 (J)	0.0484 (J)				0.0393 (J)	
11/26/2018									
11/27/2018				0.0493 (J)	0.0715 (J)	1.58	<0.1015		
11/28/2018	2	2.23	0.064 (J)					0.0417 (J)	1.8
5/28/2019									
5/29/2019			0.0952 (J)	0.0682 (J)	0.116	1.7	<0.1015	0.0528 (J)	1.75
5/30/2019	2.11	2.45							
9/30/2019	2.02	2.34							
10/1/2019			0.0967 (J)	0.0701 (J)	0.116	2.05	<0.1015	0.0604 (J)	1.91
10/2/2019									
3/30/2020									1.77
3/31/2020	2.12	2.27	0.0856 (J)	0.0655 (J)		1.74	<0.1015	0.0505 (J)	
4/1/2020					0.1				
8/31/2020							<0.1015		
9/1/2020	2.02		0.115					0.0642 (J)	2.11
9/2/2020		2.05		0.0789 (J)	0.148	1.9			
9/8/2020									
9/9/2020									
5/11/2021	1.99				0.109				
5/12/2021									
5/17/2021									
5/18/2021		2.08	0.0927 (J)				<0.1015		1.99
5/19/2021						1.74		0.0604 (J)	
5/25/2021				0.074 (J)					

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/8/2021 11:18 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

BY-AP-MW-3

2/23/2016	
3/1/2016	
3/2/2016	<0.1015
4/19/2016	<0.1015
4/20/2016	
6/6/2016	
6/7/2016	<0.1015
6/8/2016	
8/30/2016	
8/31/2016	<0.1015
10/18/2016	
10/19/2016	<0.1015
1/31/2017	<0.1015
2/1/2017	
5/2/2017	<0.1015
5/3/2017	
6/6/2017	<0.1015
6/7/2017	
9/12/2017	<0.1015
9/13/2017	
9/14/2017	
5/1/2018	<0.1015
5/2/2018	
11/26/2018	
11/27/2018	<0.1015
11/28/2018	
5/28/2019	
5/29/2019	<0.1015
5/30/2019	
9/30/2019	
10/1/2019	<0.1015
10/2/2019	
3/30/2020	
3/31/2020	<0.1015
4/1/2020	
8/31/2020	
9/1/2020	<0.1015
9/2/2020	
9/8/2020	
9/9/2020	
5/11/2021	
5/12/2021	
5/17/2021	
5/18/2021	<0.1015
5/19/2021	
5/25/2021	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/8/2021 11:18 AM View: Appendix III Trend

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-4	BY-AP-MW-11	BY-AP-MW-14	BY-AP-MW-15	BY-AP-MW-12	BY-AP-MW-16	BY-AP-MW-13	BY-AP-MW-2	BY-AP-MW-1
2/23/2016									
3/1/2016	1.07	35.3							
3/2/2016			9.53	6.61	21	14.6	16.7	3.86	46.5
4/19/2016	0.969			5.97		13.3		3.22	49
4/20/2016		28.9	9.55		20.1		13.1		
6/6/2016									
6/7/2016	1.08								
6/8/2016		27.6	13.1	6.36	20.2	13.2	11.7	3.17	33.5
8/30/2016	0.952		12.1						
8/31/2016		25.4		6.28	19.9	11.8	11.3	3.07	34.2
10/18/2016			11.4						
10/19/2016	1.17	25.7		6.57	20.4	12.9	11.8	2.91	35.1
1/31/2017	0.946		10.8	6.77		13.5	12.5	2.94	38.5
2/1/2017		25.6			20.9				
5/2/2017	0.826		11.9	6.94		13.5		2.82	35.1
5/3/2017		24			20.9		12		
6/6/2017	0.834		12.2	6.88		13.6		2.79	32.4
6/7/2017		25.2			21.2		12.8		
9/12/2017	0.884							2.88	
9/13/2017		25.5	13.9	7.43	22.1	11.8	13.3		40.5
9/14/2017									
5/1/2018	0.921			7.42		14		2.82	39.7
5/2/2018		25.2	10.6		22.2		13.8		
8/28/2018	0.8							2.85	37.2
8/29/2018		25.6	11.7	7.37	22.3	12.1	13.3		
11/26/2018									
11/27/2018	1.01		10.8	7.58		13.3		2.8	
11/28/2018		24.6			22.1		15.2		35.8
5/28/2019									
5/29/2019	0.627	23.9	11.2	7.22	21.4	13.4	12.8	2.82	33.4
5/30/2019									
9/30/2019		24.6							
10/1/2019	0.645		11.4	6.9	23.1	11.7	13.4	2.94	36.7
10/2/2019									
3/30/2020									33.7
3/31/2020	0.898	25.1	9.04		22.4	14.2	13.2	2.95	
4/1/2020				7.32					
8/31/2020								3	
9/1/2020	0.566	23.9			22.2		12.3		40.5
9/2/2020			10.8	7.04		13.1			
9/8/2020									
9/9/2020									
5/11/2021				6.98					
5/12/2021									
5/17/2021									
5/18/2021	0.974				23.1			3.17	39.5
5/19/2021		41.5				14.2	12.9		
5/25/2021			11.2						

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/8/2021 11:18 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

BY-AP-MW-3

2/23/2016	
3/1/2016	
3/2/2016	1.11
4/19/2016	1.01
4/20/2016	
6/6/2016	
6/7/2016	1.06
6/8/2016	
8/30/2016	
8/31/2016	0.978
10/18/2016	
10/19/2016	0.906
1/31/2017	1.04
2/1/2017	
5/2/2017	0.969
5/3/2017	
6/6/2017	0.902
6/7/2017	
9/12/2017	0.988
9/13/2017	
9/14/2017	
5/1/2018	1.07
5/2/2018	
8/28/2018	1.02
8/29/2018	
11/26/2018	
11/27/2018	0.999
11/28/2018	
5/28/2019	
5/29/2019	1.09
5/30/2019	
9/30/2019	
10/1/2019	1.08
10/2/2019	
3/30/2020	
3/31/2020	1.1
4/1/2020	
8/31/2020	
9/1/2020	1.08
9/2/2020	
9/8/2020	
9/9/2020	
5/11/2021	
5/12/2021	
5/17/2021	
5/18/2021	1.12
5/19/2021	
5/25/2021	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 7/8/2021 11:18 AM View: Appendix III Trend

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-4	BY-AP-MW-10	BY-AP-MW-13	BY-AP-MW-16	BY-AP-MW-14	BY-AP-MW-2	BY-AP-MW-3	BY-AP-MW-12	BY-AP-MW-15
2/23/2016									
3/1/2016	7.74	19.6							
3/2/2016			47.3	16.6	36.6	6.08	8.04	22.2	20.9
4/19/2016	7.66			15.7		6.2	7.6		19.8
4/20/2016		18.8	40.5		35.5			21.7	
6/6/2016									
6/7/2016	11.3						7.7		
6/8/2016		18.6	37.2	15.1	43.8	6.2		22	24
8/30/2016	10.8				41.6				
8/31/2016		18.5	38.2	15.9		6.51	7.7	22.3	28
10/18/2016					39.5				
10/19/2016	11.1	18.7	39.4	15.3		6.85	7.73	20.8	21.3
3/20/2017									
3/21/2017	11			19		7.2	7.2		34
3/22/2017		21	49		46			23	
5/2/2017	12			19	42	8.3	8.6		33
5/3/2017		22	48					25	
6/6/2017	12			19	44	8.5	8.3		35
6/7/2017		22	49					23	
9/12/2017	11					8.6	8.5		
9/13/2017			42	21	43			23	36
9/14/2017		22							
5/1/2018	9.2			18		7.6	7.6		42
5/2/2018		23	47		39			21	
8/28/2018	10	25				8.5	8.2		
8/29/2018			43	20	44			23	38
11/26/2018									
11/27/2018	10			20	43	8.8	8.4		43
11/28/2018		25	43					23	
5/28/2019									
5/29/2019	8.53		44	20	50.1	8.31	9.01	24.1	47.2
5/30/2019		25.9							
9/30/2019		25.7							
10/1/2019	7.35		39.6	20.3	44.8	8.19	8.05	26.1	56.3
10/2/2019									
3/30/2020									
3/31/2020	9.54	26.1	44.9	20.8	44.7	8.48	9.07	23.9	
4/1/2020									54.7
8/31/2020						8.3			
9/1/2020	7.82	25	39.1				8.97	23.4	
9/2/2020				20.8	47.2				47
9/8/2020									
9/9/2020									
5/11/2021		27.3							80
5/12/2021									
5/17/2021									
5/18/2021	9.53					7.89	9.52	25.4	
5/19/2021			46.8	21.4					
5/25/2021					52.1				

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 7/8/2021 11:18 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

BY-AP-MW-1

2/23/2016	
3/1/2016	
3/2/2016	2.18 (o)
4/19/2016	9.01 (o)
4/20/2016	
6/6/2016	
6/7/2016	
6/8/2016	21
8/30/2016	
8/31/2016	21
10/18/2016	
10/19/2016	21.4
3/20/2017	
3/21/2017	25
3/22/2017	
5/2/2017	26
5/3/2017	
6/6/2017	27
6/7/2017	
9/12/2017	
9/13/2017	24
9/14/2017	
5/1/2018	25
5/2/2018	
8/28/2018	25
8/29/2018	
11/26/2018	
11/27/2018	
11/28/2018	26
5/28/2019	
5/29/2019	27.6
5/30/2019	
9/30/2019	
10/1/2019	24.6
10/2/2019	
3/30/2020	24.9
3/31/2020	
4/1/2020	
8/31/2020	
9/1/2020	25.7
9/2/2020	
9/8/2020	
9/9/2020	
5/11/2021	
5/12/2021	
5/17/2021	
5/18/2021	25.1
5/19/2021	
5/25/2021	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 7/8/2021 11:18 AM View: Appendix III Trend

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-8	BY-AP-MW-9	BY-AP-MW-12	BY-AP-MW-14	BY-AP-MW-15	BY-AP-MW-16	BY-AP-MW-2	BY-AP-MW-13	BY-AP-MW-1
2/23/2016									
3/1/2016	0.03 (J)	0.04 (J)							
3/2/2016			0.04 (J)	0.07 (J)	0.18 (J)	0.04 (J)	0.04 (J)	0.05 (J)	0.03 (J)
4/19/2016					0.21 (J)	0.05 (J)	0.038 (J)		0.052 (J)
4/20/2016	0.043 (J)	0.052 (J)	0.059 (J)	0.076 (J)				0.064 (J)	
6/6/2016									
6/7/2016	0.069 (J)								
6/8/2016		0.077 (J)	0.08 (J)	0.105 (J)	0.223 (J)	0.073 (J)	0.067 (J)	0.082 (J)	0.069 (J)
8/30/2016	0.052 (J)			0.083 (J)					
8/31/2016		0.056 (J)	0.059 (J)		0.196 (J)	0.051 (J)	0.05 (J)	0.062 (J)	0.043 (J)
10/18/2016	0.042 (J)			0.067 (J)					
10/19/2016		0.045 (J)	0.045 (J)		0.166 (J)	<0.1	<0.1	0.049 (J)	<0.1
3/20/2017									
3/21/2017					0.18	0.04 (J)	<0.1		0.04 (J)
3/22/2017	<0.1	0.05 (J)	0.04 (J)	0.06 (J)				0.05 (J)	
5/2/2017				0.08 (J)	0.18	0.05 (J)	0.04 (J)		0.05 (J)
5/3/2017	0.05 (J)	0.06 (J)	0.06 (J)					0.06 (J)	
6/6/2017				0.077 (J)	0.18	0.053 (J)	0.04 (J)		0.049 (J)
6/7/2017	0.05 (J)	0.06 (J)	0.06 (J)					0.07 (J)	
9/12/2017							0.037 (J)		
9/13/2017			<0.1 (U*)	<0.1 (U*)	<0.1 (U*)	<0.1 (U*)		<0.1 (U*)	<0.1 (U*)
9/14/2017	0.05 (J)	0.07 (J)							
1/22/2018					0.19			0.06 (J)	
1/23/2018		0.06 (J)	0.05 (J)	0.08 (J)		0.05 (J)			
1/24/2018	0.04 (J)						<0.1		0.05 (J)
5/1/2018					0.19	0.05 (J)	<0.1		0.05 (J)
5/2/2018	0.04 (J)	0.05 (J)	0.06 (J)	0.08 (J)				0.07 (J)	
11/26/2018									
11/27/2018	<0.1			0.06 (J)	0.18	<0.1	<0.1		
11/28/2018		0.04 (J)	0.04 (J)					0.05 (J)	<0.1
5/28/2019									
5/29/2019	0.0958 (J)		0.0677 (J)	0.0781 (J)	0.168	0.0683 (J)	<0.1	0.0679 (J)	0.0858 (J)
5/30/2019		0.0763 (J)							
9/30/2019	0.0559 (J)	0.0679 (J)							
10/1/2019			0.0682 (J)	0.0885 (J)	0.185	0.0774 (J)	<0.1	0.0703 (J)	0.0744 (J)
10/2/2019									
3/30/2020	0.0701 (J)								0.0726 (J)
3/31/2020		0.0655 (J)	0.0755 (J)	0.0867 (J)		0.0602 (J)	<0.1	0.0665 (J)	
4/1/2020					0.187				
8/31/2020							<0.1		
9/1/2020			0.0845 (J)					0.0757 (J)	0.194
9/2/2020	<0.1	0.0804 (J)		0.0957 (J)	0.18	<0.1			
9/8/2020									
9/9/2020									
5/11/2021	0.094 (J)				0.214				
5/12/2021									
5/17/2021									
5/18/2021		0.0709 (J)	0.0614 (J)				<0.1		0.0884 (J)
5/19/2021						0.0793 (J)		0.0748 (J)	
5/25/2021				0.0957 (J)					

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 7/8/2021 11:18 AM View: Appendix III Trend

Plant Barry Client: Southern Company Data: Barry Ash Pond

BY-AP-MW-3

2/23/2016	
3/1/2016	
3/2/2016	0.01 (J)
4/19/2016	0.014 (J)
4/20/2016	
6/6/2016	
6/7/2016	0.049 (J)
6/8/2016	
8/30/2016	
8/31/2016	0.034 (J)
10/18/2016	
10/19/2016	0.023 (J)
3/20/2017	
3/21/2017	<0.1
3/22/2017	
5/2/2017	<0.1
5/3/2017	
6/6/2017	<0.1
6/7/2017	
9/12/2017	<0.1
9/13/2017	
9/14/2017	
1/22/2018	
1/23/2018	
1/24/2018	<0.1
5/1/2018	<0.1
5/2/2018	
11/26/2018	
11/27/2018	<0.1
11/28/2018	
5/28/2019	
5/29/2019	<0.1
5/30/2019	
9/30/2019	
10/1/2019	<0.1
10/2/2019	
3/30/2020	
3/31/2020	<0.1
4/1/2020	
8/31/2020	
9/1/2020	<0.1
9/2/2020	
9/8/2020	
9/9/2020	
5/11/2021	
5/12/2021	
5/17/2021	
5/18/2021	<0.1
5/19/2021	
5/25/2021	

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 7/8/2021 11:18 AM View: Appendix III Trend

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-4	BY-AP-MW-11	BY-AP-MW-14	BY-AP-MW-15	BY-AP-MW-12	BY-AP-MW-16	BY-AP-MW-13	BY-AP-MW-2	BY-AP-MW-1
2/23/2016									
3/1/2016	27.3	395							
3/2/2016			266	182	351	263	319	42	426
4/19/2016	38			151		259		51.3	442
4/20/2016		376	311		353		305		
6/6/2016									
6/7/2016	48.7								
6/8/2016		324	353	168	330	285	287	46.7	461
8/30/2016	32.7		328						
8/31/2016		367		188	354	279	295	32.7	456
10/18/2016			310						
10/19/2016	36	367		180	354	264	305	37.3	444
1/31/2017	40.7		312	166		270	325	47.3	422
2/1/2017		391			360				
5/2/2017	30.7		300	183		259		44	442
5/3/2017		373			341		306		
6/6/2017	41.3		335	187		278		48	433
6/7/2017		367			337		320		
9/12/2017	34.7							40.7	
9/13/2017		378	339	202	359	333	332		456
9/14/2017									
5/1/2018	39.3			197		274		42.7	416
5/2/2018		330	301		310		320		
8/28/2018	26							28	420
8/29/2018		352	318	192	307	283	312		
11/26/2018									
11/27/2018	32		295	190		250		48	
11/28/2018		357			336		304		408
5/28/2019									
5/29/2019	39.3	367	318	198	321	264	307	47.3	403
5/30/2019									
9/30/2019		399							
10/1/2019	32		317	236	344	295	290	44.7	430
10/2/2019									
3/30/2020									419
3/31/2020	42.7	393	317		331	276	290	42	
4/1/2020				231					
8/31/2020								45.3	
9/1/2020	36	399			356		285		454
9/2/2020			327	208		279			
9/8/2020									
9/9/2020									
5/11/2021				279					
5/12/2021									
5/17/2021									
5/18/2021	47.3				332			48.7	450
5/19/2021		422				274	300		
5/25/2021			318						

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 7/8/2021 11:18 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

BY-AP-MW-3

2/23/2016	
3/1/2016	
3/2/2016	27.3
4/19/2016	33.3
4/20/2016	
6/6/2016	
6/7/2016	44
6/8/2016	
8/30/2016	
8/31/2016	29.3
10/18/2016	
10/19/2016	29.3
1/31/2017	36.7
2/1/2017	
5/2/2017	28
5/3/2017	
6/6/2017	36.7
6/7/2017	
9/12/2017	35.3
9/13/2017	
9/14/2017	
5/1/2018	34.7
5/2/2018	
8/28/2018	34
8/29/2018	
11/26/2018	
11/27/2018	41.3
11/28/2018	
5/28/2019	
5/29/2019	40
5/30/2019	
9/30/2019	
10/1/2019	36.7
10/2/2019	
3/30/2020	
3/31/2020	37.3
4/1/2020	
8/31/2020	
9/1/2020	39.3
9/2/2020	
9/8/2020	
9/9/2020	
5/11/2021	
5/12/2021	
5/17/2021	
5/18/2021	38
5/19/2021	
5/25/2021	

FIGURE F.

Trend Test - Significant Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 7/14/2021, 1:00 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Boron (mg/L)	BY-AP-MW-10	0.1255	79	58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	BY-AP-MW-8	-0.1162	-85	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-10	2.598	84	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-12	0.5843	96	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-15	0.1966	64	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-7	0.545	106	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-8	-0.591	-74	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-GSA-MW-2 (bg)	0.1183	62	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-GSA-MW-3 (bg)	0.07545	59	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-GSA-MW-4 (bg)	0.122	78	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-10	1.83	106	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-12	0.5618	72	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-14	1.93	78	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-15	8.82	118	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-16	1.016	95	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-GSA-MW-2 (bg)	-0.4298	-75	-58	Yes	16	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	BY-AP-MW-10	0.01288	73	63	Yes	17	35.29	n/a	n/a	0.01	NP
Fluoride (mg/L)	BY-GSA-MW-2 (bg)	0.01436	65	63	Yes	17	41.18	n/a	n/a	0.01	NP
pH, field (SU)	BY-AP-MW-13	-0.03349	-89	-74	Yes	19	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-GSA-MW-2 (bg)	-0.06952	-94	-68	Yes	18	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-GSA-MW-3 (bg)	-0.0553	-82	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-AP-MW-1	2.18	81	63	Yes	17	35.29	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-AP-MW-12	2.194	60	58	Yes	16	56.25	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-AP-MW-8	0.4244	73	63	Yes	17	58.82	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-10	7.358	69	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-15	13.65	96	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-GSA-MW-1 (bg)	5.298	76	58	Yes	16	6.25	n/a	n/a	0.01	NP
TDS (mg/L)	BY-GSA-MW-2 (bg)	2.894	62	58	Yes	16	12.5	n/a	n/a	0.01	NP
TDS (mg/L)	BY-GSA-MW-4 (bg)	4.909	78	58	Yes	16	25	n/a	n/a	0.01	NP

Trend Test - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 7/14/2021, 1:00 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	BY-AP-MW-1	0.04577	22	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	BY-AP-MW-10	0.1255	79	58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	BY-AP-MW-16	0.05246	58	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	BY-AP-MW-8	-0.1162	-85	-58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	BY-AP-MW-9	0.05144	36	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	BY-GSA-MW-1 (bg)	0	6	58	No	16	50	n/a	n/a	0.01	NP
Boron (mg/L)	BY-GSA-MW-2 (bg)	0	23	53	No	15	86.67	n/a	n/a	0.01	NP
Boron (mg/L)	BY-GSA-MW-3 (bg)	0	0	58	No	16	100	n/a	n/a	0.01	NP
Boron (mg/L)	BY-GSA-MW-4 (bg)	0	21	58	No	16	87.5	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-1	-0.04961	-4	-63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-10	2.598	84	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-11	-0.4695	-62	-63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-12	0.5843	96	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-13	0.1418	26	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-14	-0.1252	-13	-63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-15	0.1966	64	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-16	0.03631	6	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-2	-0.04006	-27	-63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-7	0.545	106	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-8	-0.591	-74	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-9	0.2067	22	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-GSA-MW-1 (bg)	0.07712	33	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-GSA-MW-2 (bg)	0.1183	62	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-GSA-MW-3 (bg)	0.07545	59	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-GSA-MW-4 (bg)	0.122	78	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-1	0.8077	38	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-10	1.83	106	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-11	0.5589	25	63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-12	0.5618	72	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-13	0.3366	6	63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-14	1.93	78	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-15	8.82	118	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-16	1.016	95	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-7	0.4829	54	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-8	0.2267	19	63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-9	-0.9028	-38	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-GSA-MW-1 (bg)	-0.03346	-3	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-GSA-MW-2 (bg)	-0.4298	-75	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-GSA-MW-3 (bg)	-0.04981	-40	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-GSA-MW-4 (bg)	-0.06007	-40	-58	No	16	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	BY-AP-MW-10	0.01288	73	63	Yes	17	35.29	n/a	n/a	0.01	NP
Fluoride (mg/L)	BY-AP-MW-15	0	-4	-63	No	17	5.882	n/a	n/a	0.01	NP
Fluoride (mg/L)	BY-AP-MW-7	0.005985	61	63	No	17	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	BY-GSA-MW-1 (bg)	0.009724	55	63	No	17	41.18	n/a	n/a	0.01	NP
Fluoride (mg/L)	BY-GSA-MW-2 (bg)	0.01436	65	63	Yes	17	41.18	n/a	n/a	0.01	NP
Fluoride (mg/L)	BY-GSA-MW-3 (bg)	1.6e-9	62	63	No	17	58.82	n/a	n/a	0.01	NP
Fluoride (mg/L)	BY-GSA-MW-4 (bg)	1.6e-9	62	63	No	17	58.82	n/a	n/a	0.01	NP
pH, field (SU)	BY-AP-MW-12	-0.01823	-35	-74	No	19	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-AP-MW-13	-0.03349	-89	-74	Yes	19	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-AP-MW-14	-0.02267	-40	-74	No	19	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-GSA-MW-1 (bg)	0	4	68	No	18	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-GSA-MW-2 (bg)	-0.06952	-94	-68	Yes	18	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-GSA-MW-3 (bg)	-0.0553	-82	-68	Yes	18	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-GSA-MW-4 (bg)	-0.03973	-61	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-AP-MW-1	2.18	81	63	Yes	17	35.29	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-AP-MW-10	0.6798	42	63	No	17	52.94	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-AP-MW-12	2.194	60	58	Yes	16	56.25	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-AP-MW-13	2.38	54	63	No	17	29.41	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-AP-MW-15	0	37	63	No	17	58.82	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-AP-MW-8	0.4244	73	63	Yes	17	58.82	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-AP-MW-9	0.34	42	63	No	17	52.94	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-GSA-MW-1 (bg)	2.216	38	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-GSA-MW-2 (bg)	-0.2594	-18	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-GSA-MW-3 (bg)	-0.07291	-12	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-GSA-MW-4 (bg)	-0.04665	-13	-58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-1	-4.154	-32	-63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-10	7.358	69	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-11	6.969	33	63	No	17	0	n/a	n/a	0.01	NP

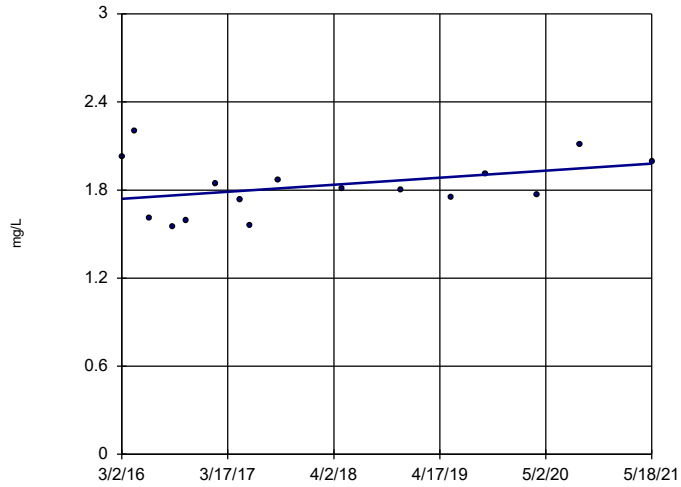
Trend Test - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 7/14/2021, 1:00 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
TDS (mg/L)	BY-AP-MW-12	-3.211	-25	-63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-13	-3.593	-29	-63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-14	1.382	14	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-15	13.65	96	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-16	2.057	20	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-7	1.622	30	58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-8	-2.208	-23	-63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-9	-3.065	-30	-63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-GSA-MW-1 (bg)	5.298	76	58	Yes	16	6.25	n/a	n/a	0.01	NP
TDS (mg/L)	BY-GSA-MW-2 (bg)	2.894	62	58	Yes	16	12.5	n/a	n/a	0.01	NP
TDS (mg/L)	BY-GSA-MW-3 (bg)	2.208	50	58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-GSA-MW-4 (bg)	4.909	78	58	Yes	16	25	n/a	n/a	0.01	NP

Sen's Slope Estimator

BY-AP-MW-1

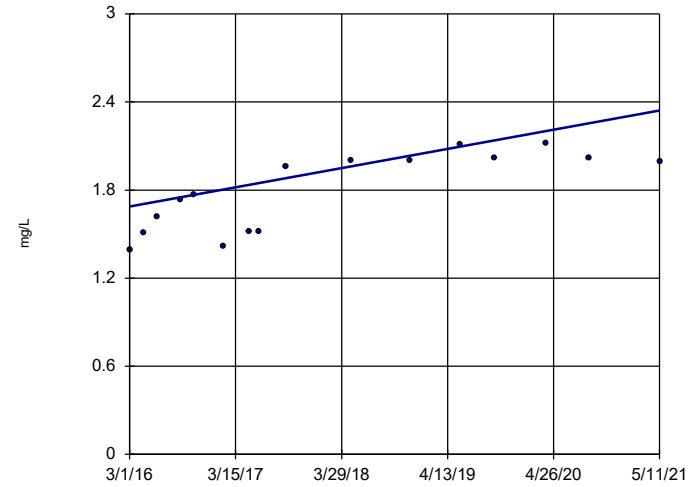


n = 16
 Slope = 0.04577
 units per year.
 Mann-Kendall
 statistic = 22
 critical = 58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-10

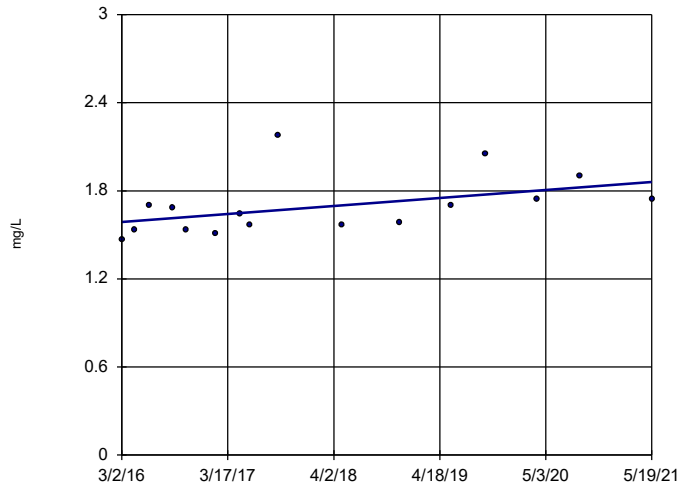


n = 16
 Slope = 0.1255
 units per year.
 Mann-Kendall
 statistic = 79
 critical = 58
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-16

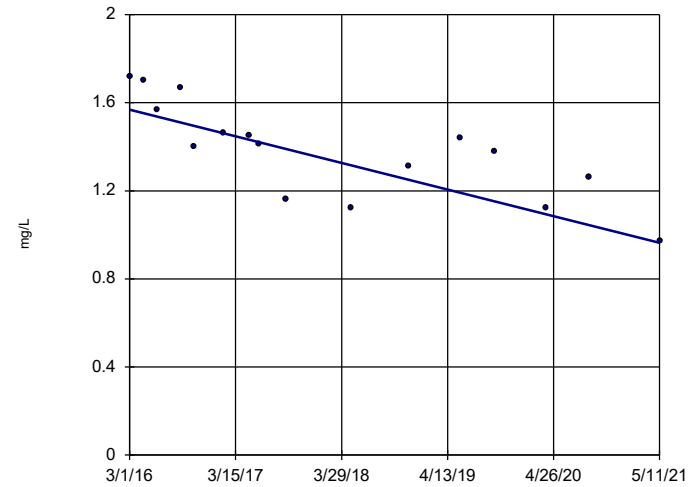


n = 16
 Slope = 0.05246
 units per year.
 Mann-Kendall
 statistic = 58
 critical = 58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-8

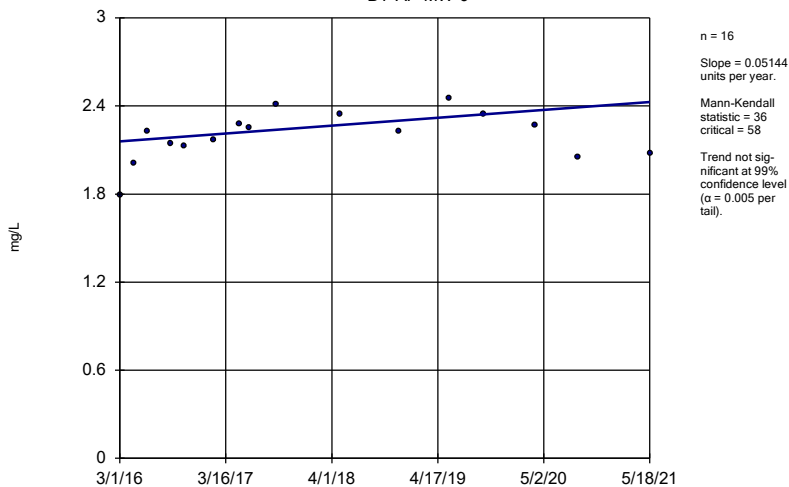


n = 16
 Slope = -0.1162
 units per year.
 Mann-Kendall
 statistic = -85
 critical = -58
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

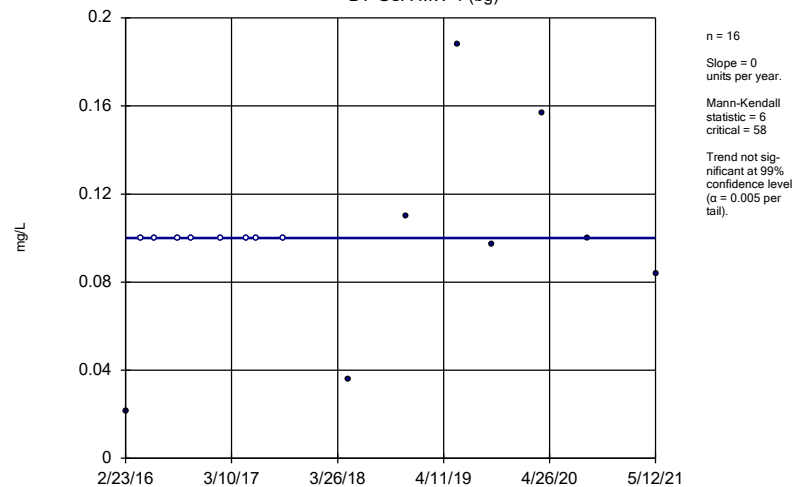
BY-AP-MW-9



Constituent: Boron Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

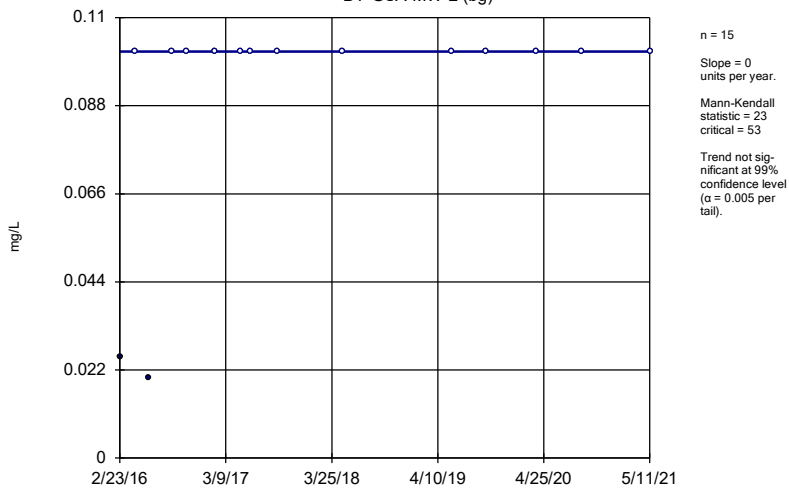
BY-GSA-MW-1 (bg)



Constituent: Boron Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

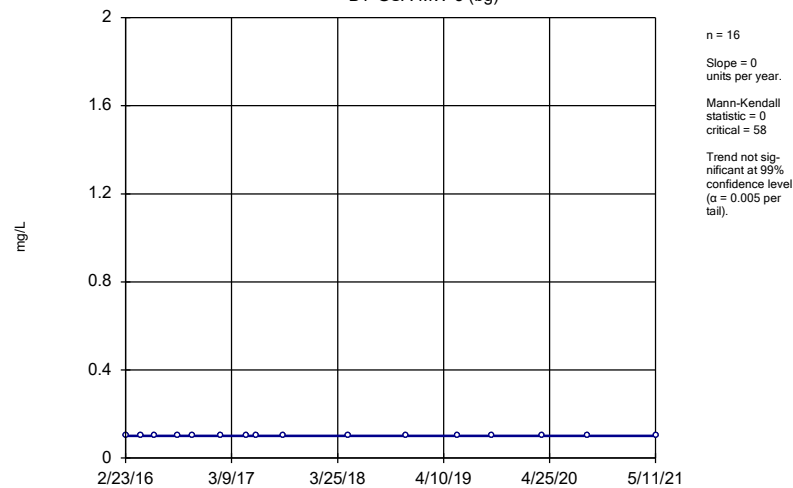
BY-GSA-MW-2 (bg)



Constituent: Boron Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

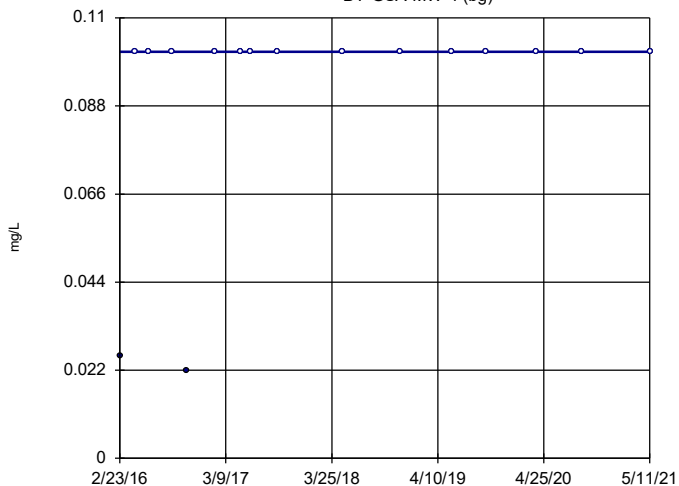
BY-GSA-MW-3 (bg)



Constituent: Boron Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-GSA-MW-4 (bg)

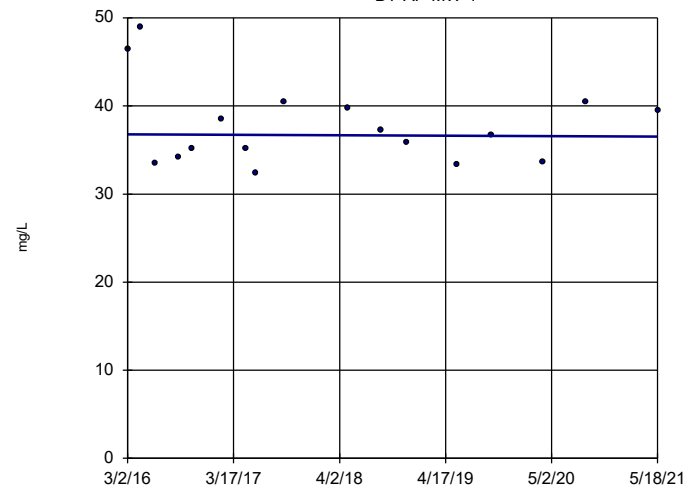


n = 16
Slope = 0
units per year.
Mann-Kendall
statistic = 21
critical = 58
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-1

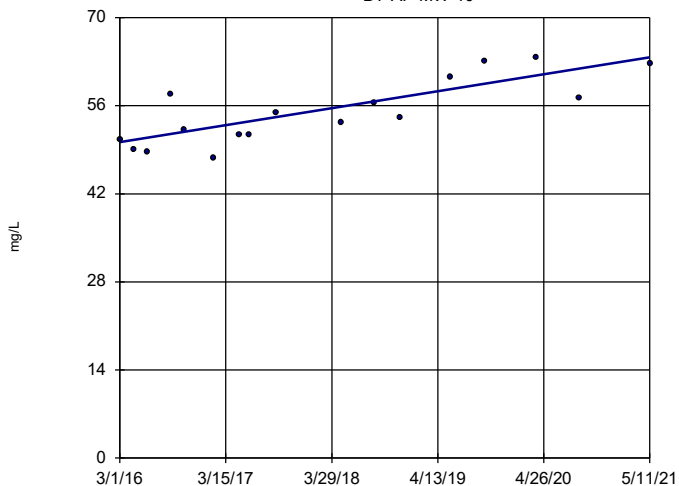


n = 17
Slope = -0.04961
units per year.
Mann-Kendall
statistic = -4
critical = -63
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Calcium Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-10

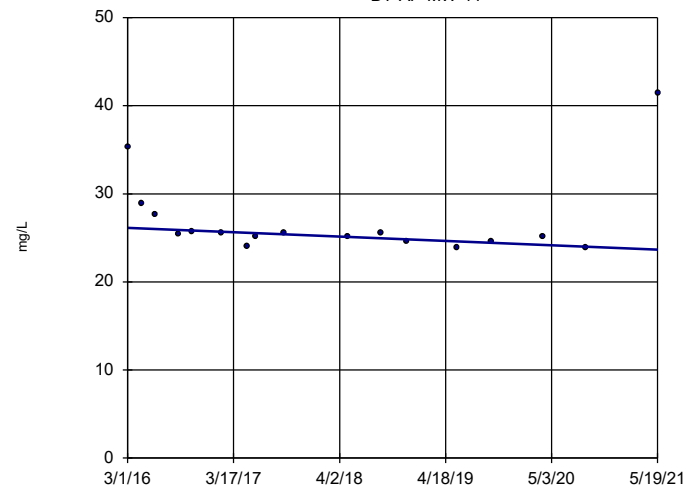


n = 17
Slope = 2.598
units per year.
Mann-Kendall
statistic = 84
critical = 63
Increasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Calcium Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-11

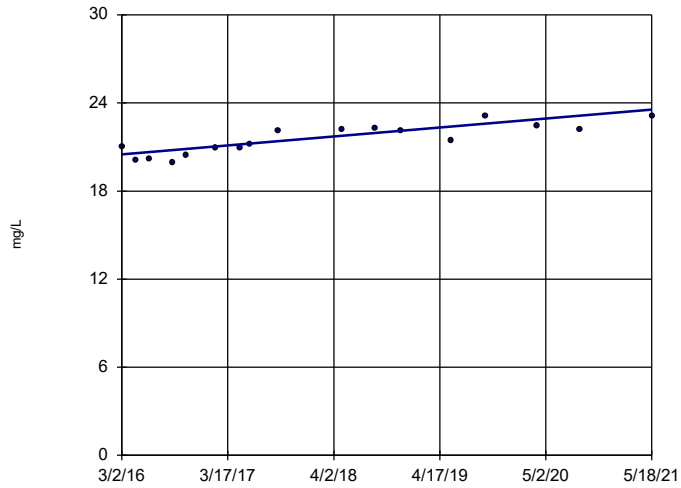


n = 17
Slope = -0.4695
units per year.
Mann-Kendall
statistic = -62
critical = -63
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Calcium Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-12

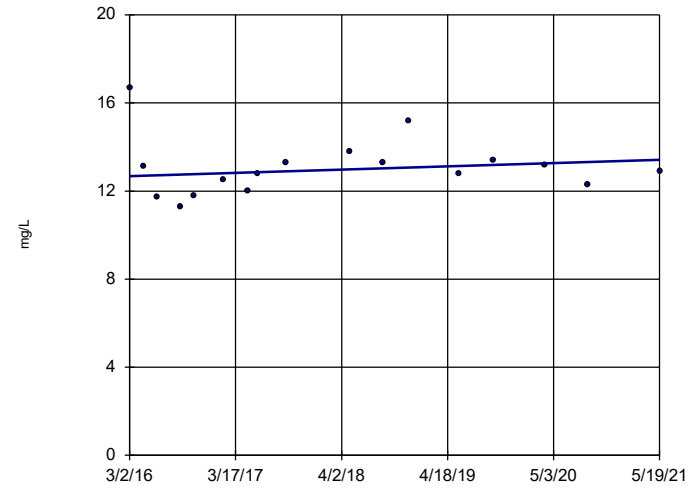


n = 17
 Slope = 0.5843
 units per year.
 Mann-Kendall
 statistic = 96
 critical = 63
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-13

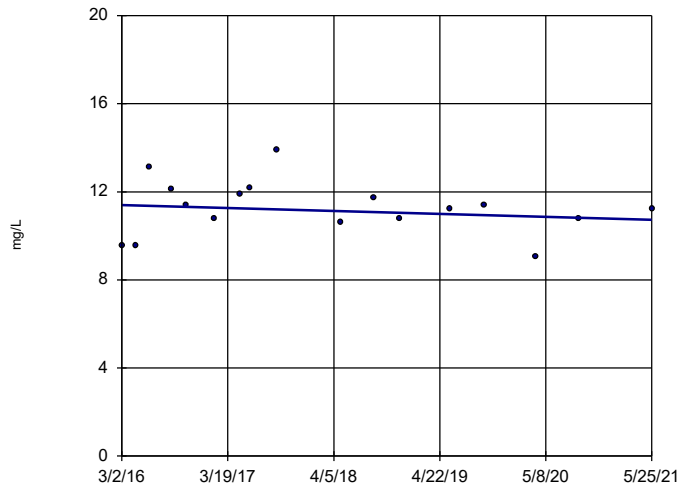


n = 17
 Slope = 0.1418
 units per year.
 Mann-Kendall
 statistic = 26
 critical = 63
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-14

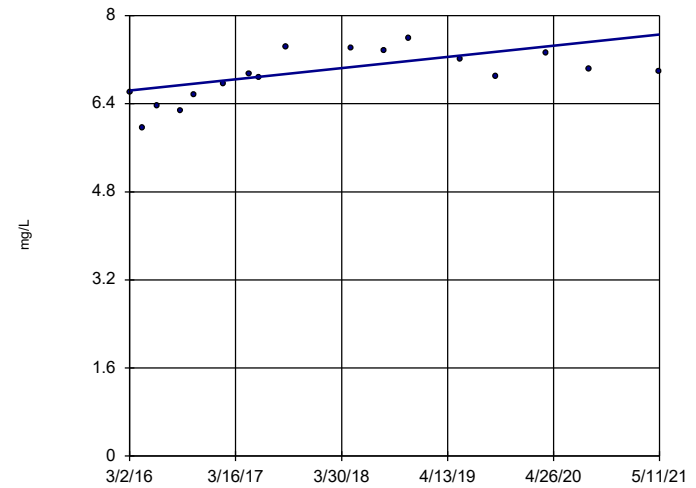


n = 17
 Slope = -0.1252
 units per year.
 Mann-Kendall
 statistic = -13
 critical = -63
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

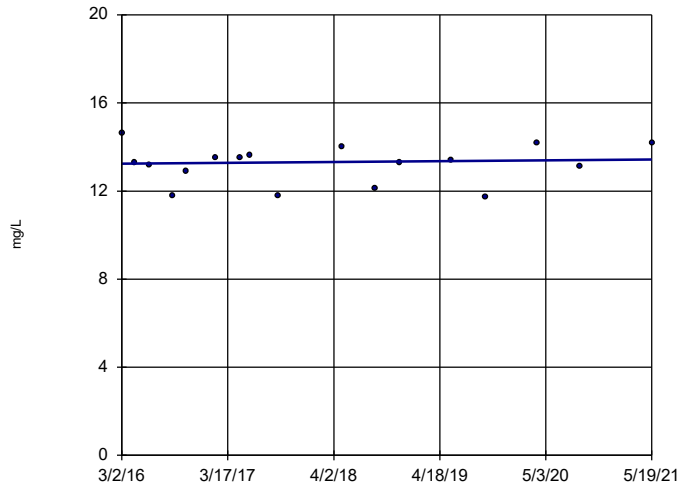
BY-AP-MW-15



n = 17
 Slope = 0.1966
 units per year.
 Mann-Kendall
 statistic = 64
 critical = 63
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

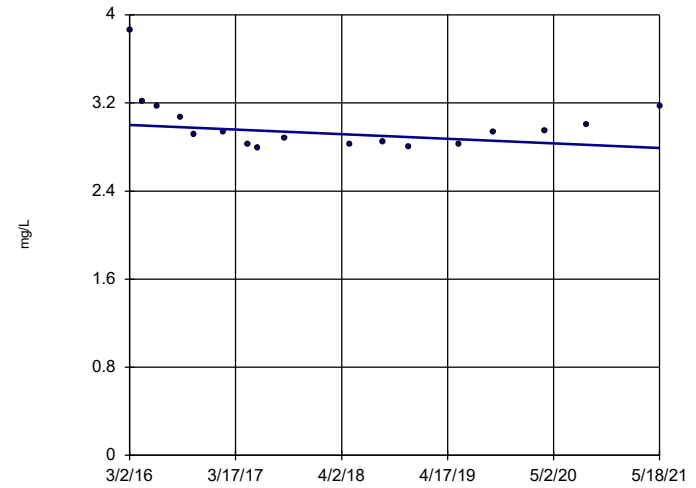
Sen's Slope Estimator
BY-AP-MW-16



n = 17
 Slope = 0.03631
 units per year.
 Mann-Kendall
 statistic = 6
 critical = 63
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

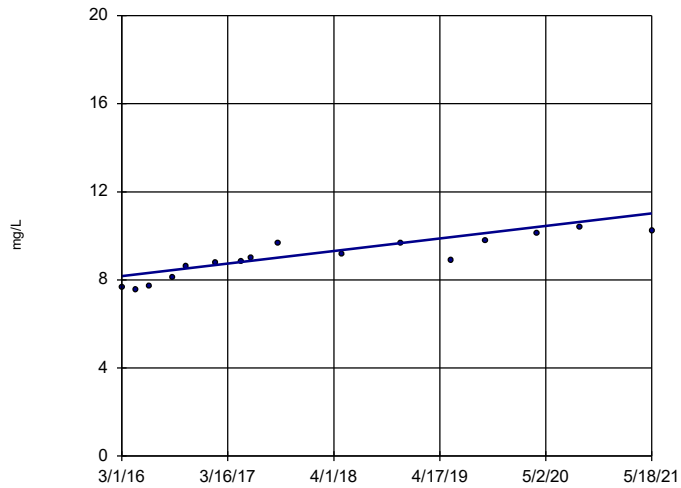
Sen's Slope Estimator
BY-AP-MW-2



n = 17
 Slope = -0.04006
 units per year.
 Mann-Kendall
 statistic = -27
 critical = -63
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

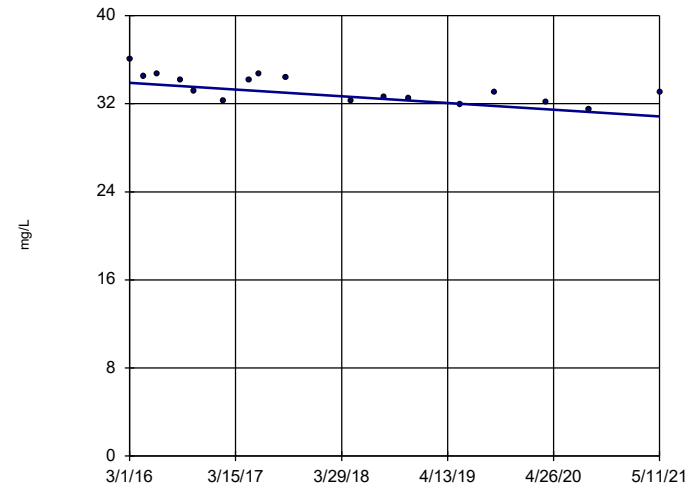
Sen's Slope Estimator
BY-AP-MW-7



n = 16
 Slope = 0.545
 units per year.
 Mann-Kendall
 statistic = 106
 critical = 58
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

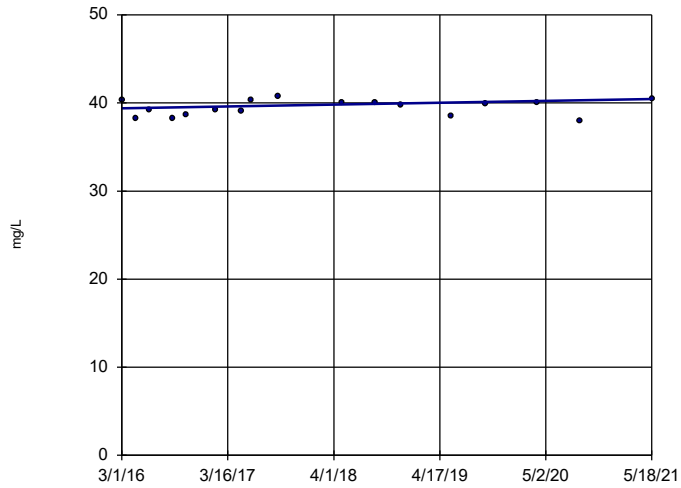
Sen's Slope Estimator
BY-AP-MW-8



n = 17
 Slope = -0.591
 units per year.
 Mann-Kendall
 statistic = -74
 critical = -63
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

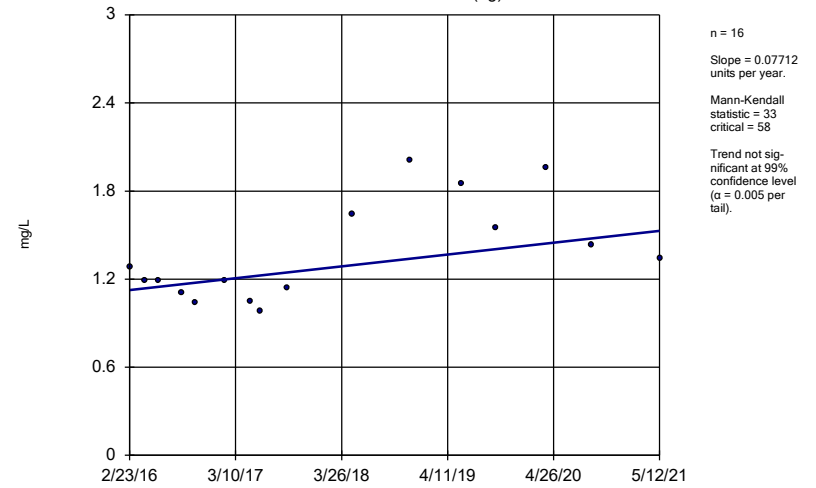
Constituent: Calcium Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator BY-AP-MW-9



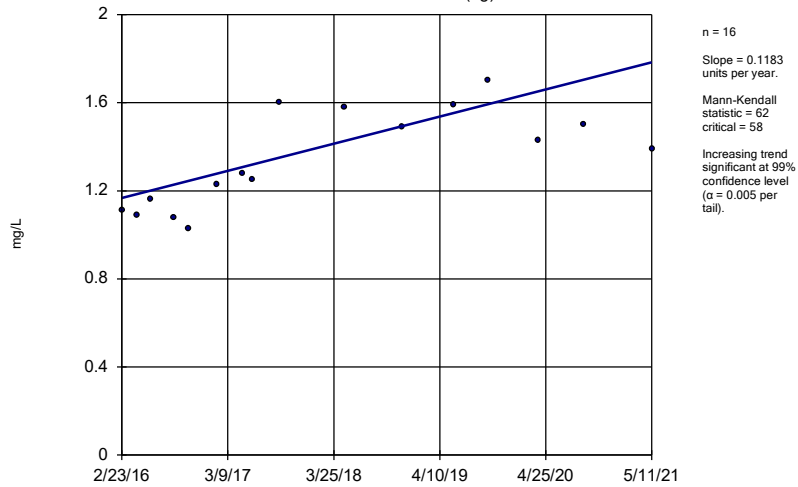
Constituent: Calcium Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator BY-GSA-MW-1 (bg)



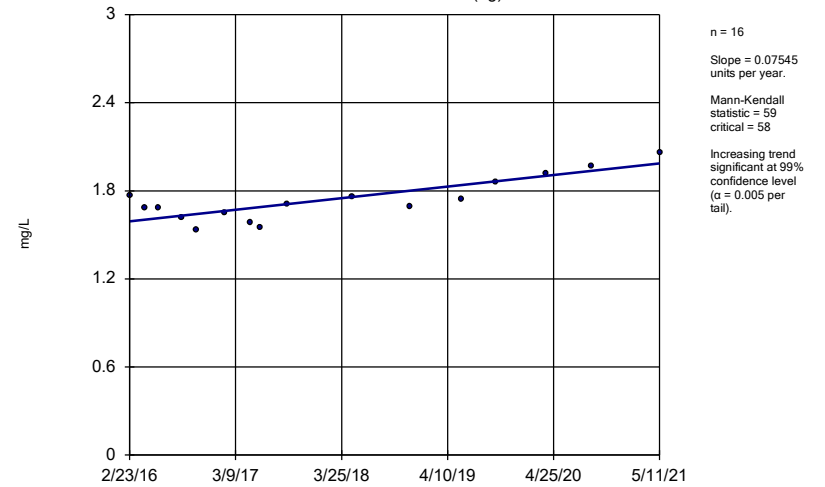
Constituent: Calcium Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator BY-GSA-MW-2 (bg)



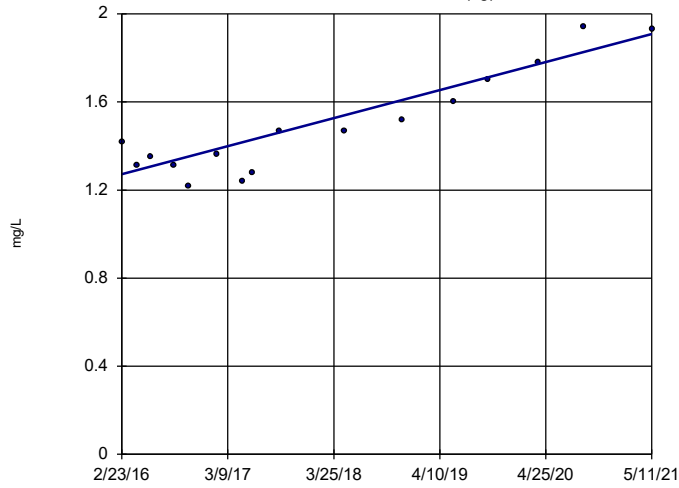
Constituent: Calcium Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator BY-GSA-MW-3 (bg)



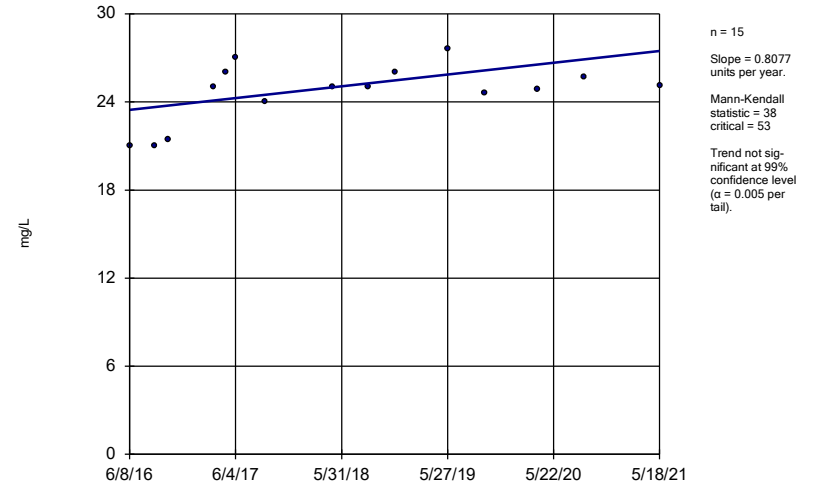
Constituent: Calcium Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator
BY-GSA-MW-4 (bg)



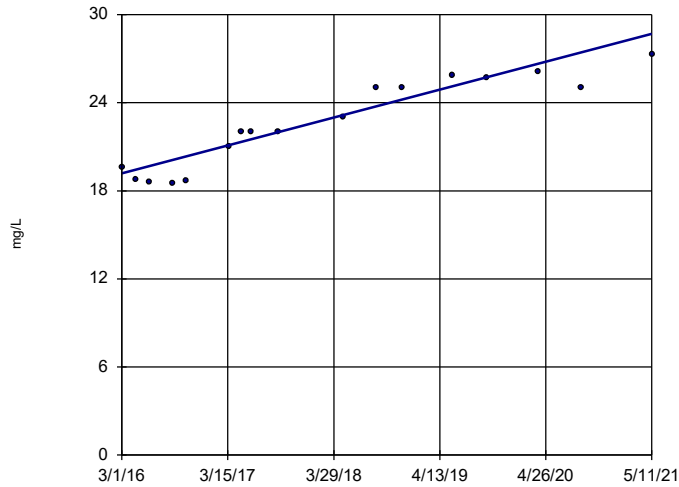
Constituent: Calcium Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator
BY-AP-MW-1



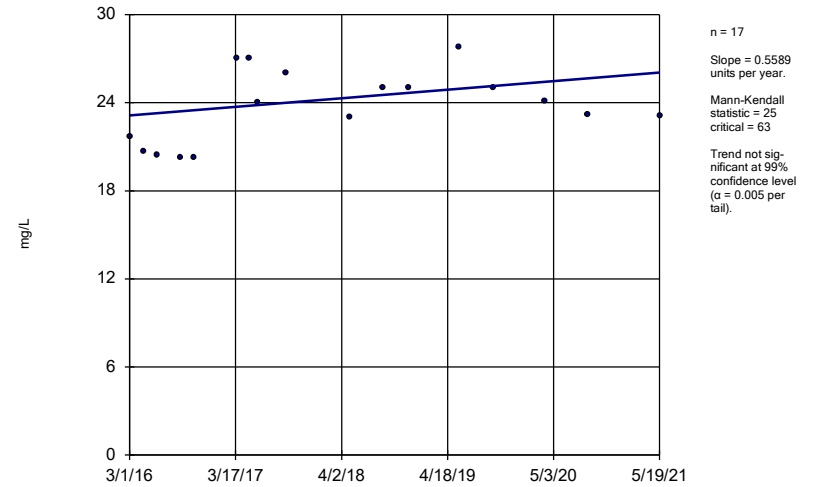
Constituent: Chloride Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator
BY-AP-MW-10



Constituent: Chloride Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

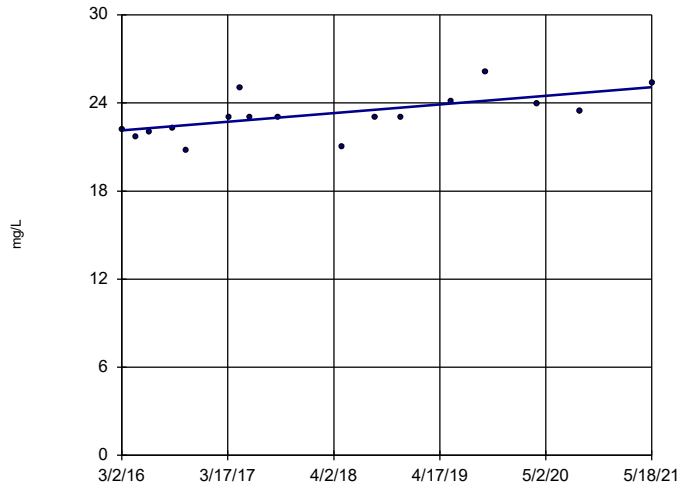
Sen's Slope Estimator
BY-AP-MW-11



Constituent: Chloride Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-12

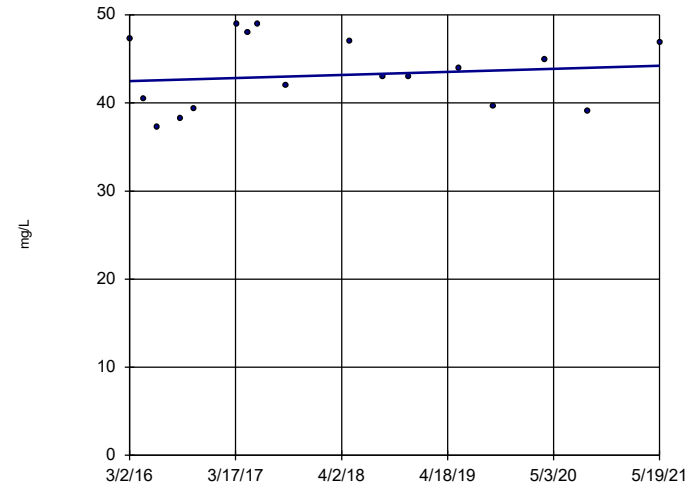


n = 17
 Slope = 0.5618
 units per year.
 Mann-Kendall
 statistic = 72
 critical = 63
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-13

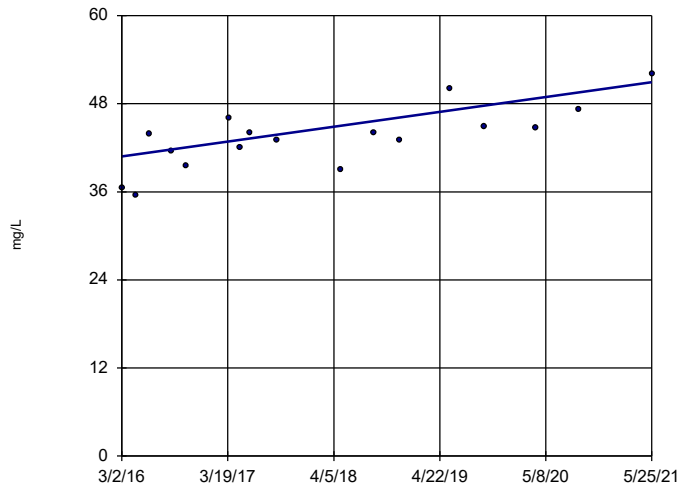


n = 17
 Slope = 0.3366
 units per year.
 Mann-Kendall
 statistic = 6
 critical = 63
 Trend not sign-
 ificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-14

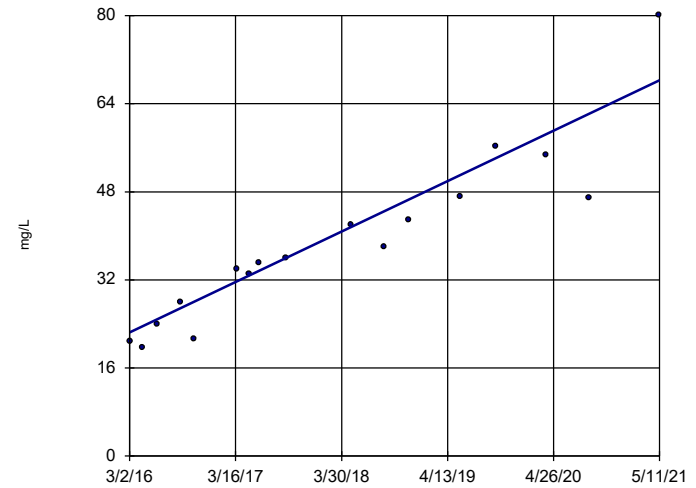


n = 17
 Slope = 1.93
 units per year.
 Mann-Kendall
 statistic = 78
 critical = 63
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-15

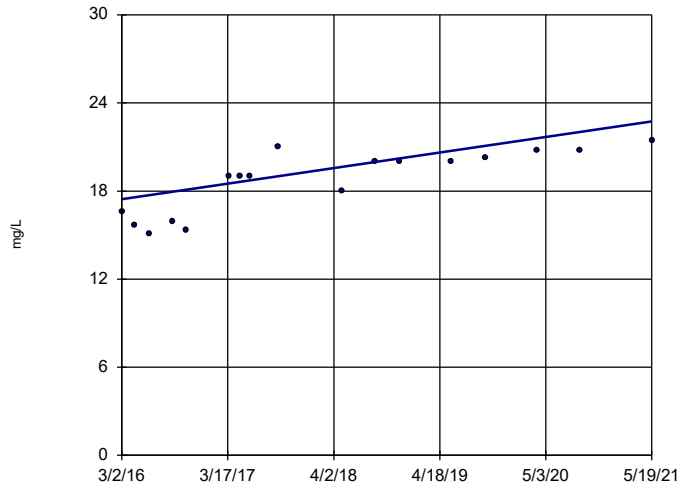


n = 17
 Slope = 8.82
 units per year.
 Mann-Kendall
 statistic = 118
 critical = 63
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-16

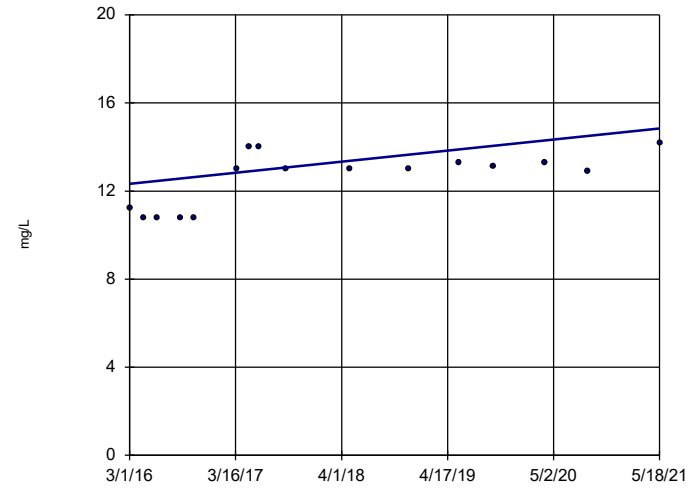


n = 17
 Slope = 1.016
 units per year.
 Mann-Kendall
 statistic = 95
 critical = 63
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-7

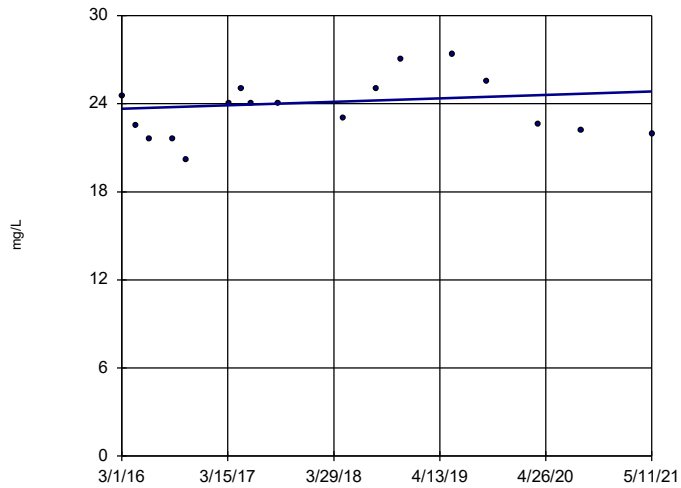


n = 16
 Slope = 0.4829
 units per year.
 Mann-Kendall
 statistic = 54
 critical = 58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-8

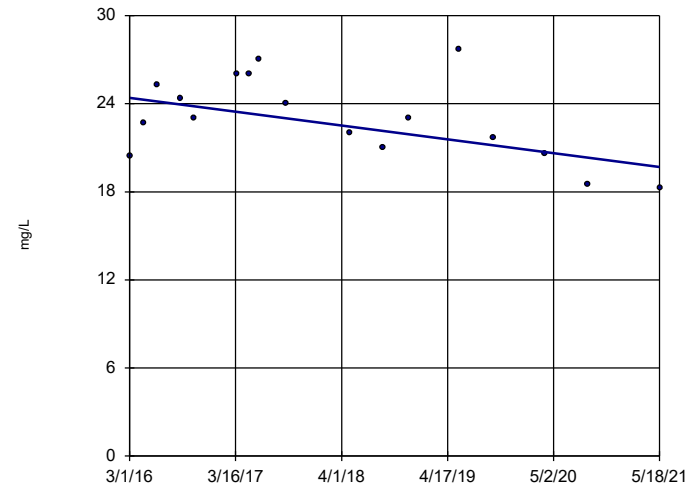


n = 17
 Slope = 0.2267
 units per year.
 Mann-Kendall
 statistic = 19
 critical = 63
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

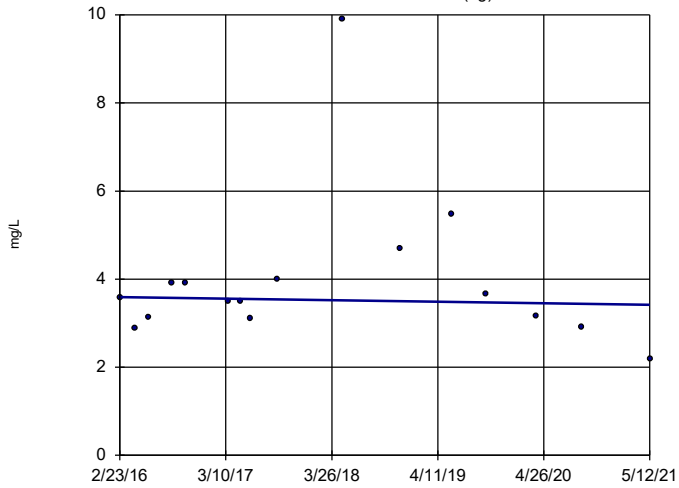
BY-AP-MW-9



n = 17
 Slope = -0.9028
 units per year.
 Mann-Kendall
 statistic = -38
 critical = -63
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

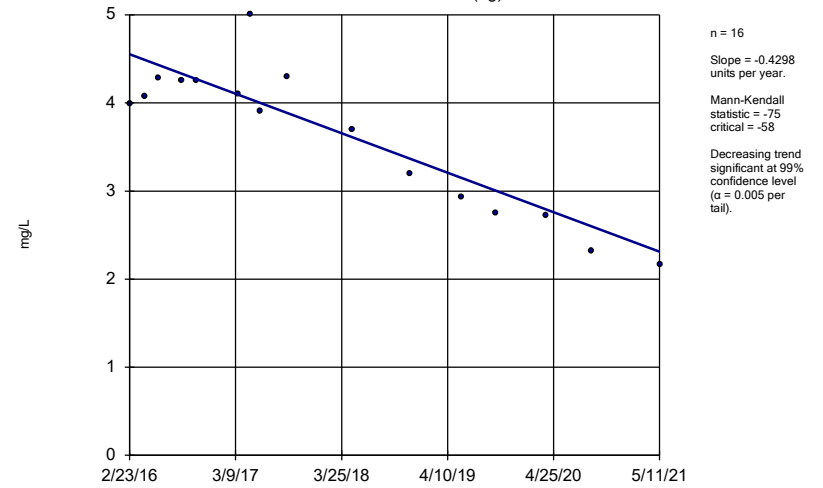
Constituent: Chloride Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator
BY-GSA-MW-1 (bg)



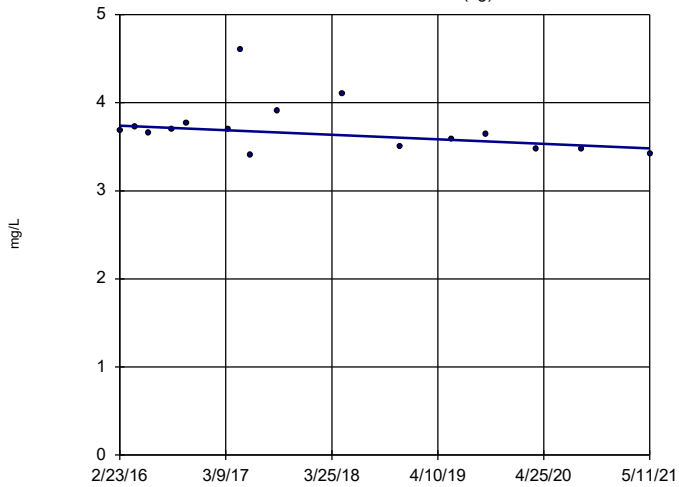
Constituent: Chloride Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator
BY-GSA-MW-2 (bg)



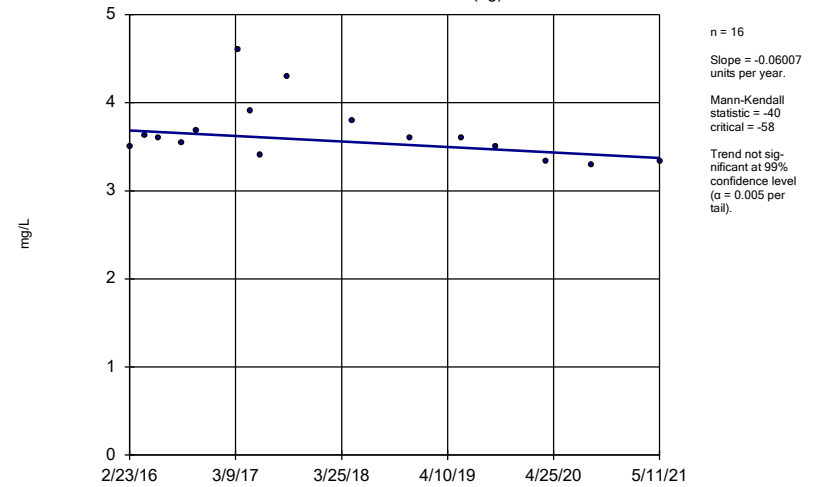
Constituent: Chloride Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator
BY-GSA-MW-3 (bg)



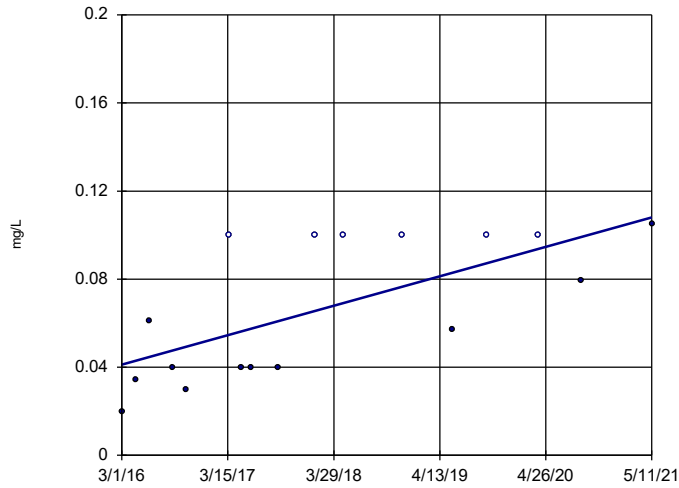
Constituent: Chloride Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator
BY-GSA-MW-4 (bg)



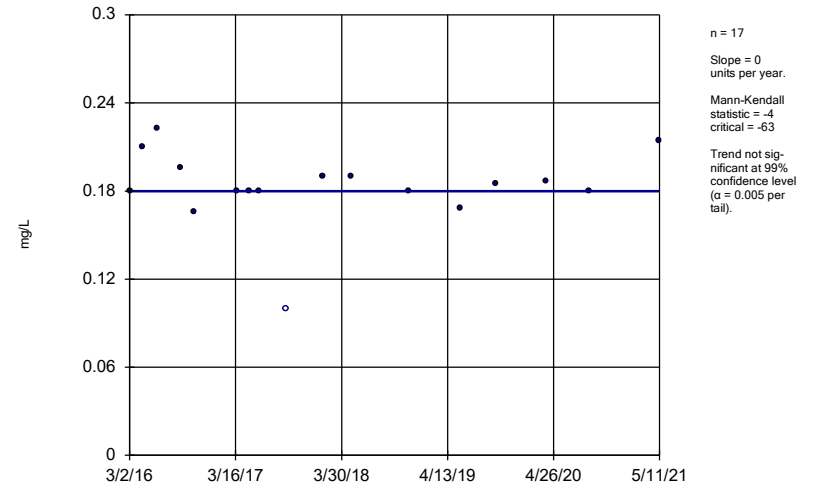
Constituent: Chloride Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator BY-AP-MW-10



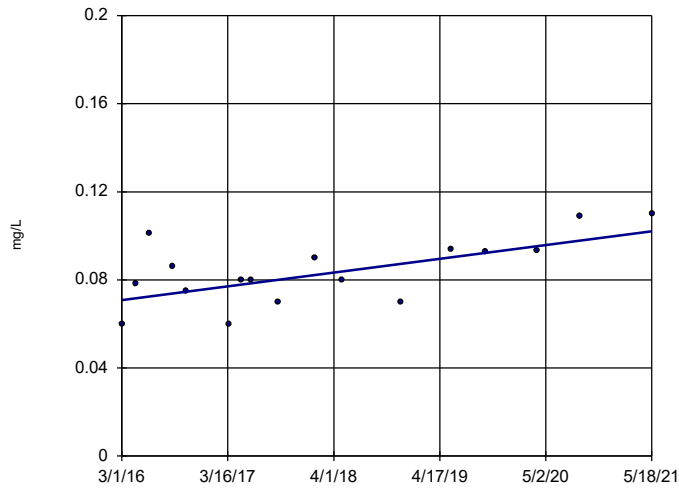
Constituent: Fluoride Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator BY-AP-MW-15



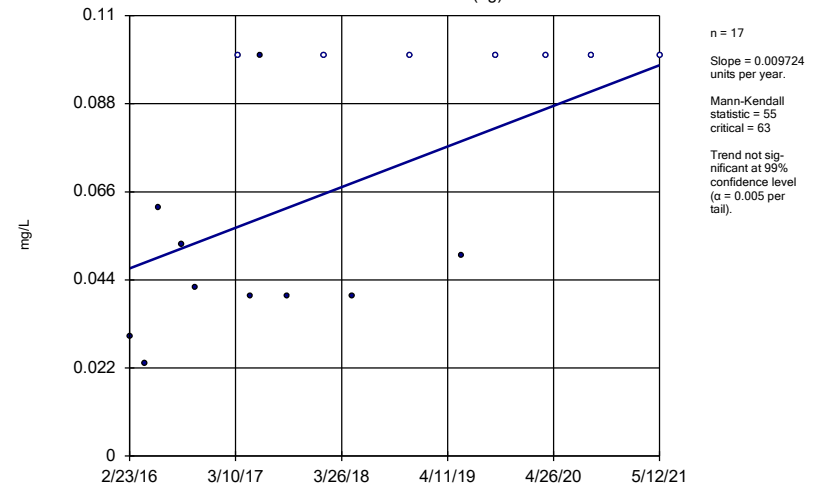
Constituent: Fluoride Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator BY-AP-MW-7

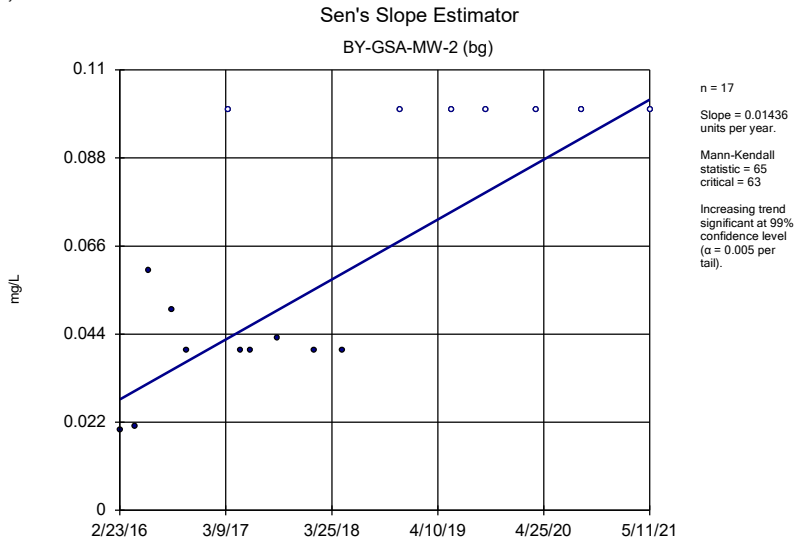


Constituent: Fluoride Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

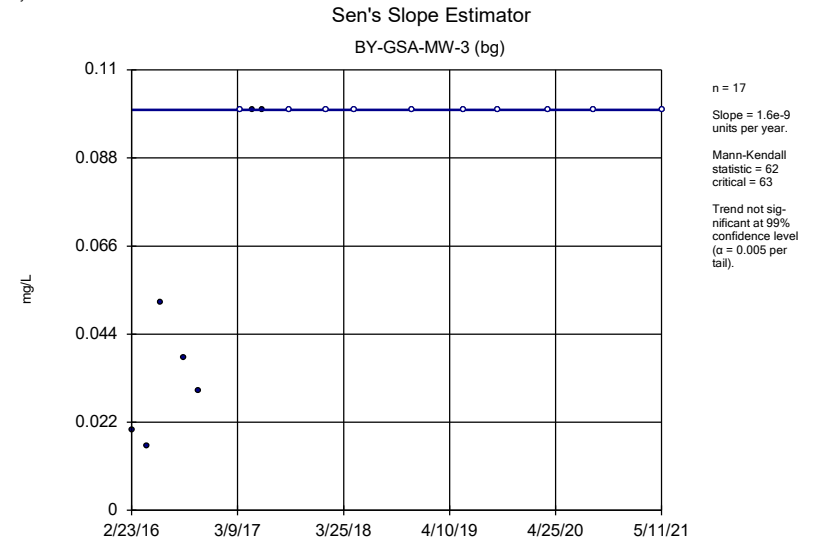
Sen's Slope Estimator BY-GSA-MW-1 (bg)



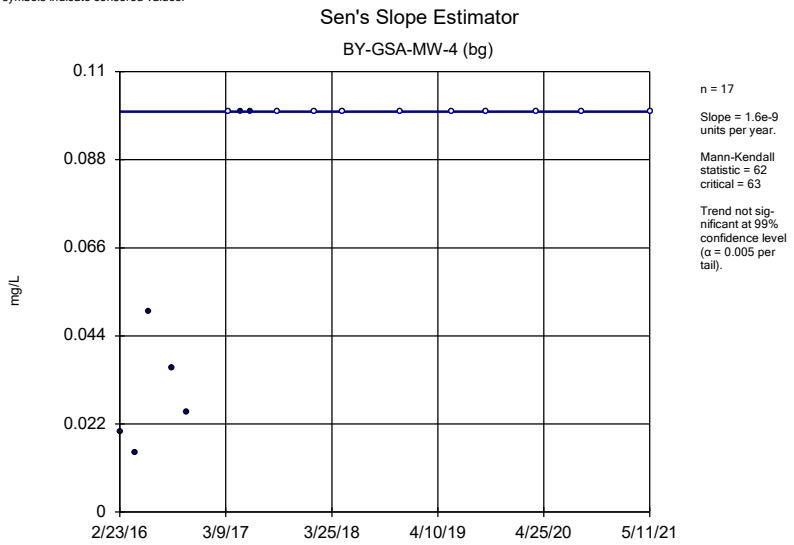
Constituent: Fluoride Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond



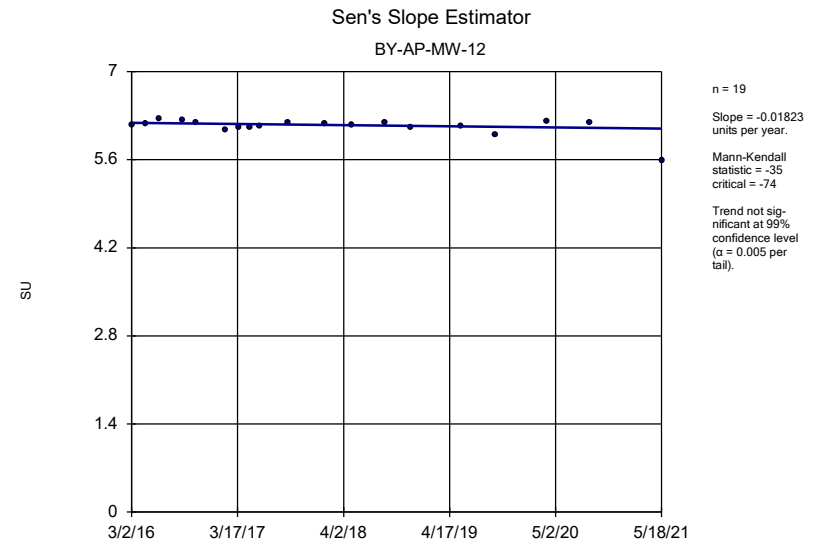
Constituent: Fluoride Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond



Constituent: Fluoride Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

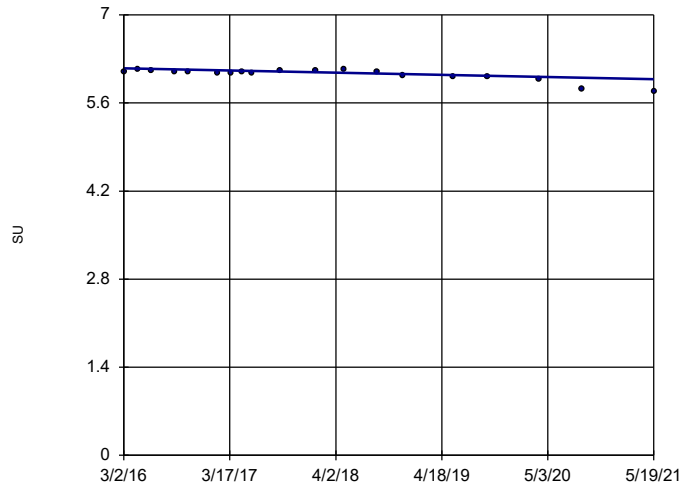


Constituent: Fluoride Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond



Constituent: pH, field Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

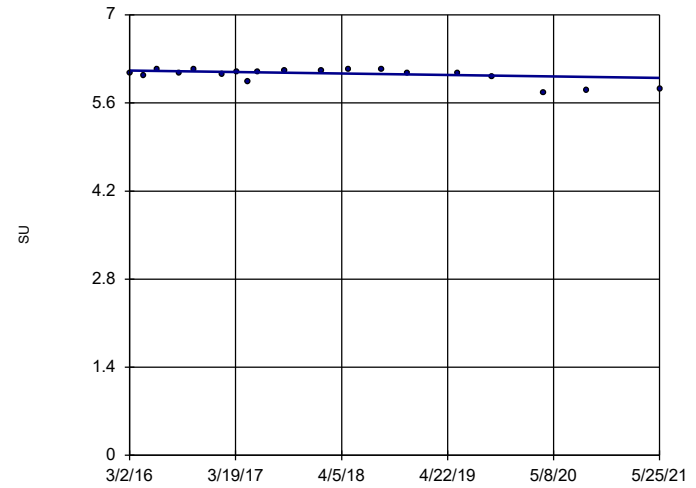
Sen's Slope Estimator BY-AP-MW-13



n = 19
 Slope = -0.03349
 units per year.
 Mann-Kendall
 statistic = -89
 critical = -74
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH, field Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

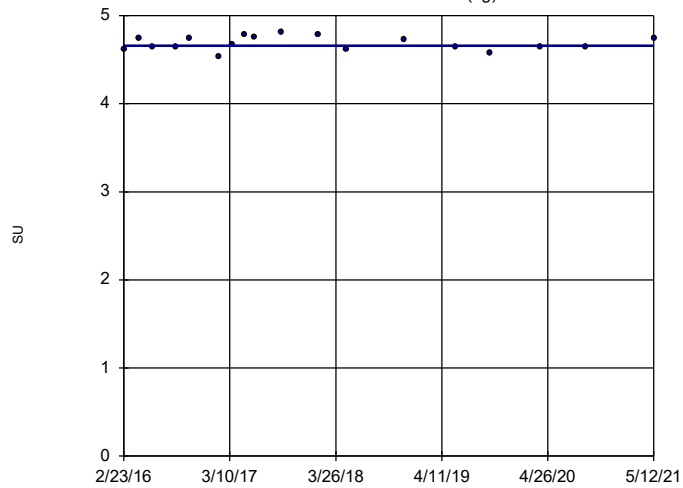
Sen's Slope Estimator BY-AP-MW-14



n = 19
 Slope = -0.02267
 units per year.
 Mann-Kendall
 statistic = -40
 critical = -74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH, field Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

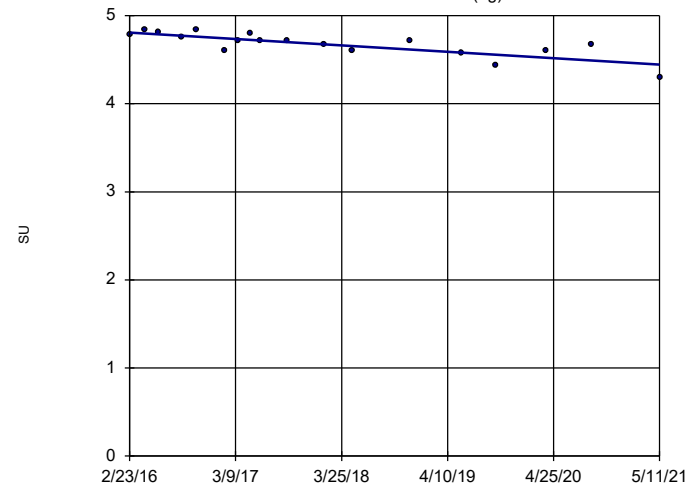
Sen's Slope Estimator BY-GSA-MW-1 (bg)



n = 18
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 4
 critical = 68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH, field Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

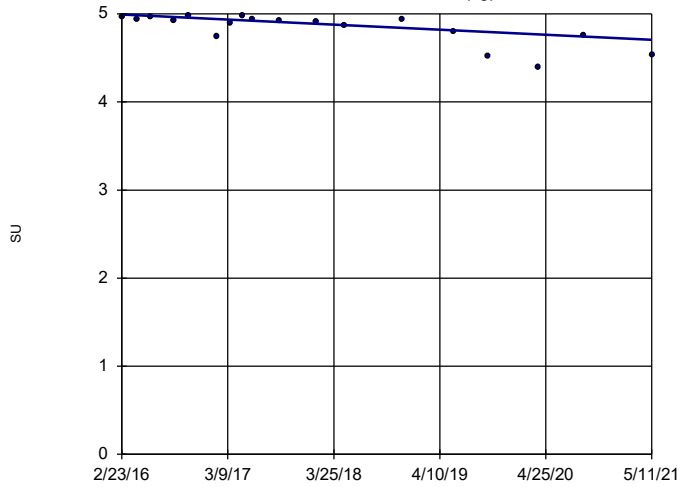
Sen's Slope Estimator BY-GSA-MW-2 (bg)



n = 18
 Slope = -0.06952
 units per year.
 Mann-Kendall
 statistic = -94
 critical = -68
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

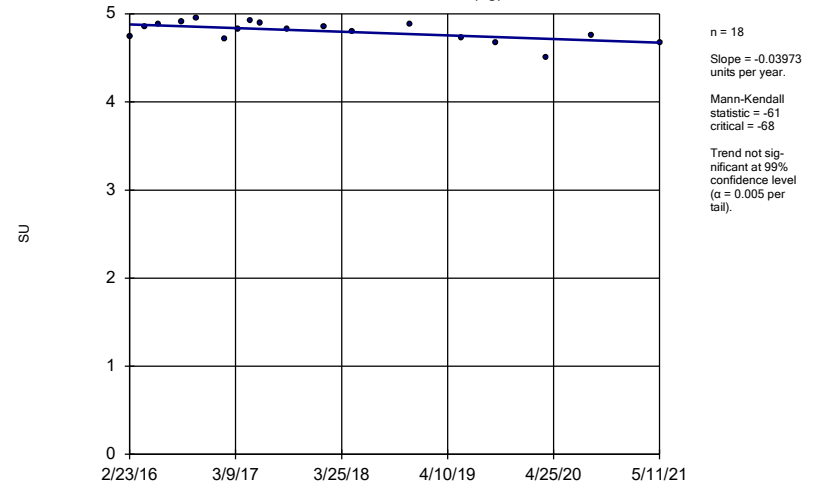
Constituent: pH, field Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator BY-GSA-MW-3 (bg)



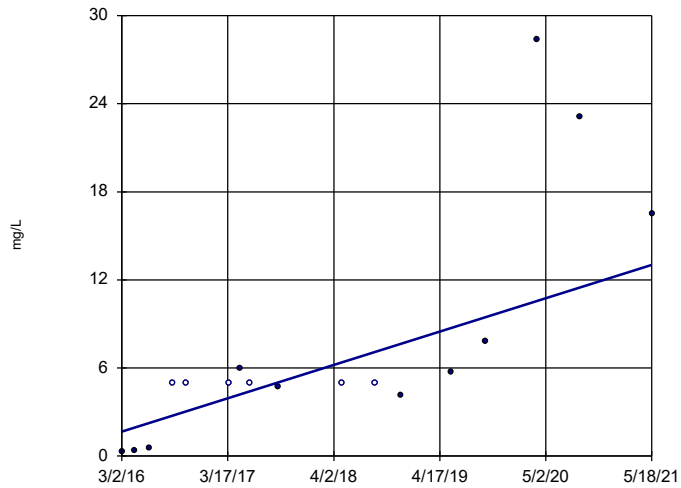
Constituent: pH, field Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator BY-GSA-MW-4 (bg)



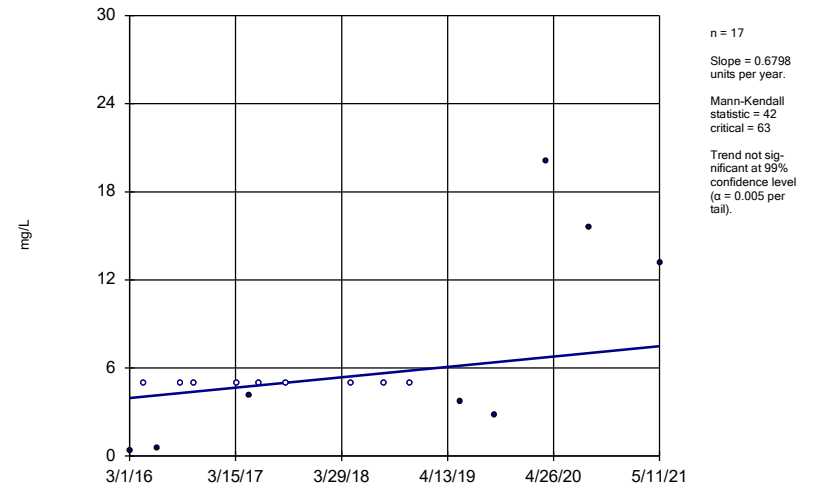
Constituent: pH, field Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator BY-AP-MW-1



Constituent: Sulfate Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

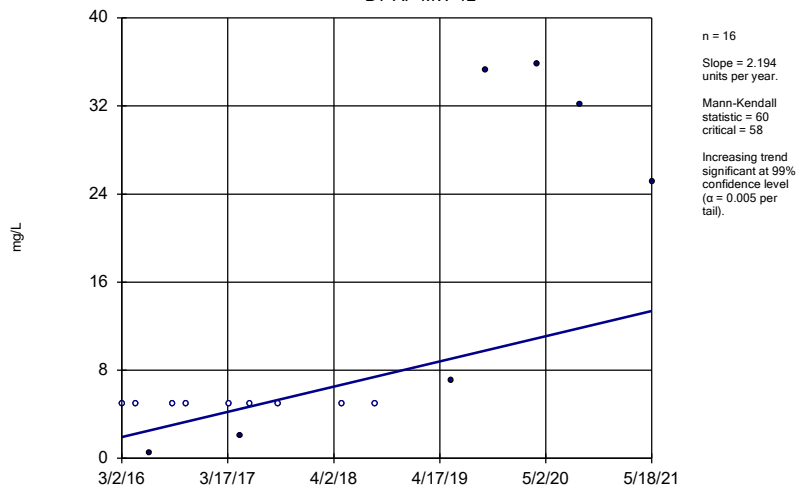
Sen's Slope Estimator BY-AP-MW-10



Constituent: Sulfate Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

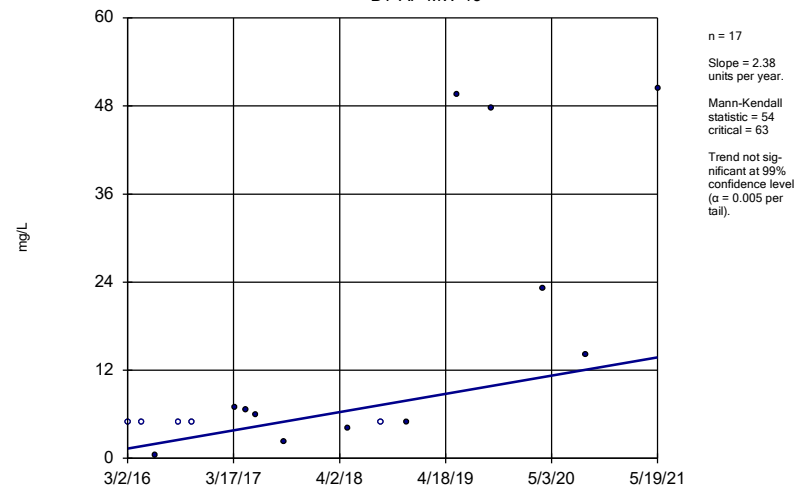
BY-AP-MW-12



Constituent: Sulfate Analysis Run 7/14/2021 12:59 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

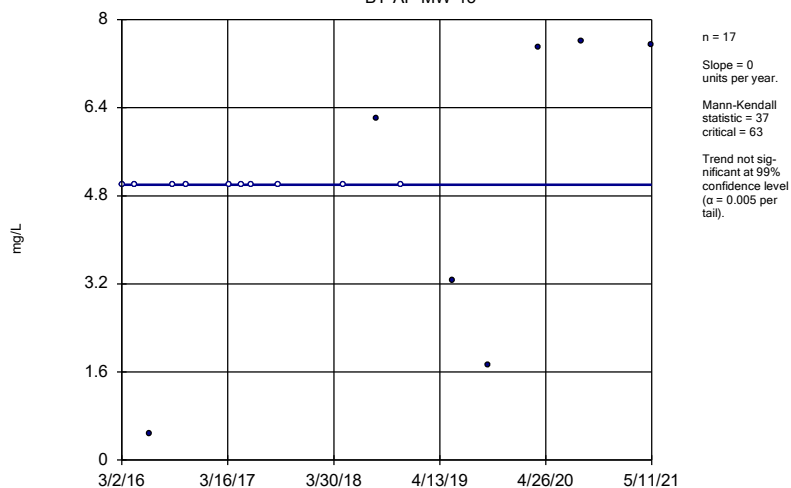
BY-AP-MW-13



Constituent: Sulfate Analysis Run 7/14/2021 1:00 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

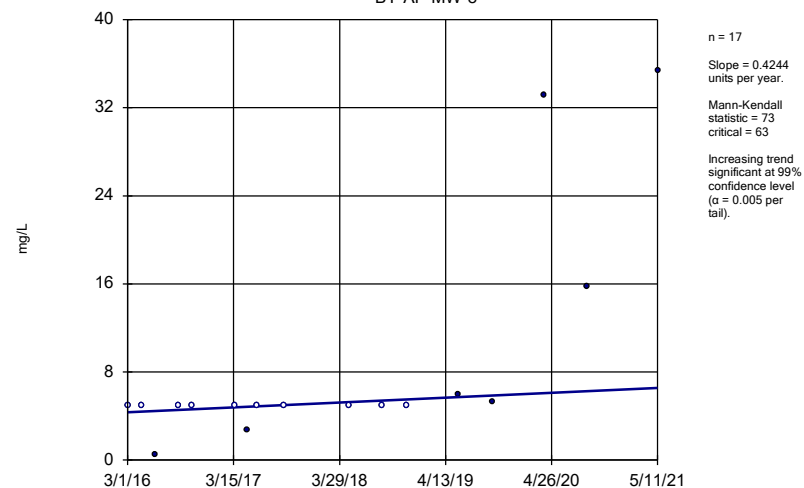
BY-AP-MW-15



Constituent: Sulfate Analysis Run 7/14/2021 1:00 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

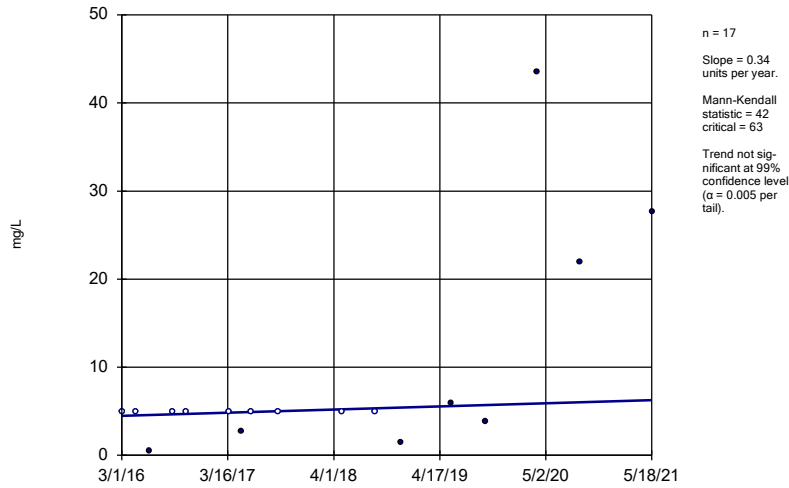
Sen's Slope Estimator

BY-AP-MW-8



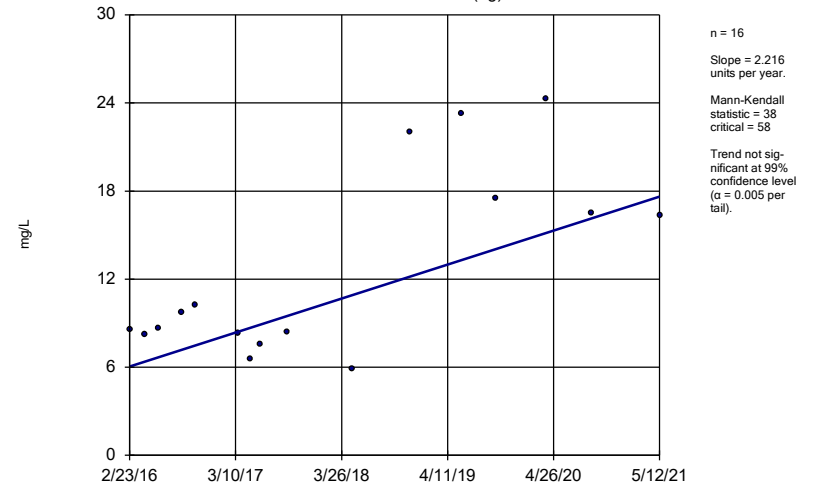
Constituent: Sulfate Analysis Run 7/14/2021 1:00 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator BY-AP-MW-9



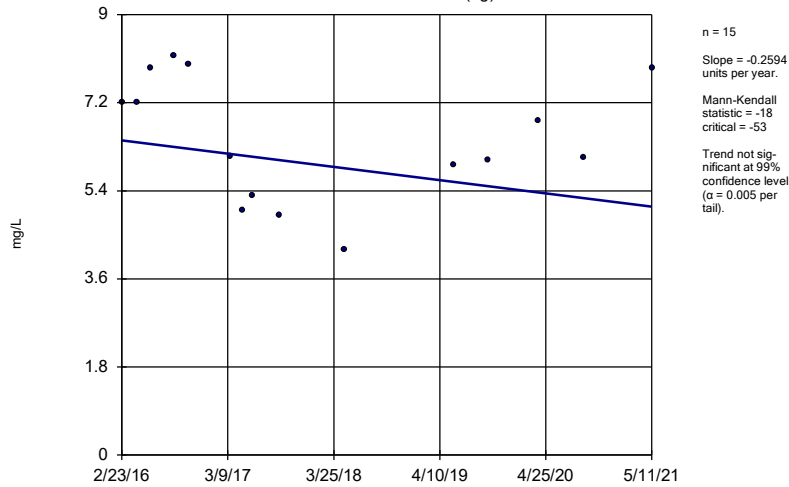
Constituent: Sulfate Analysis Run 7/14/2021 1:00 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator BY-GSA-MW-1 (bg)



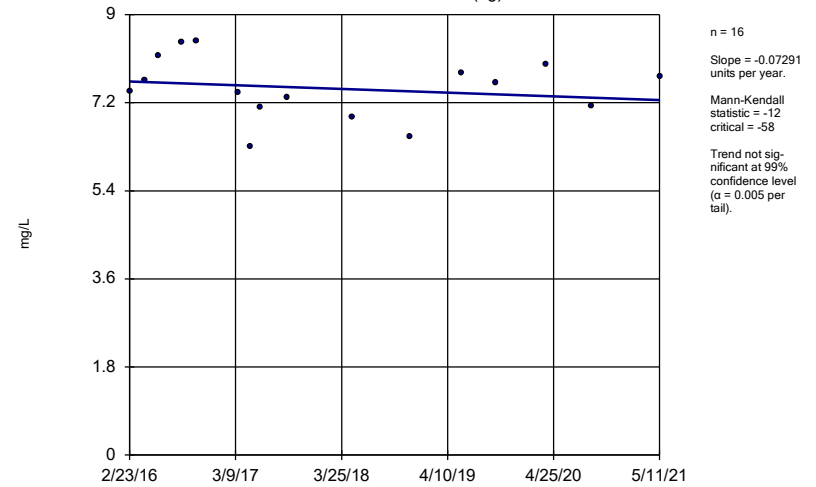
Constituent: Sulfate Analysis Run 7/14/2021 1:00 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator BY-GSA-MW-2 (bg)



Constituent: Sulfate Analysis Run 7/14/2021 1:00 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

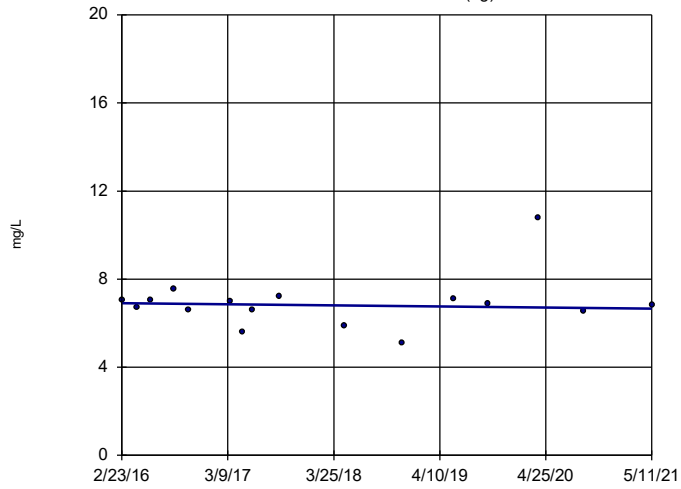
Sen's Slope Estimator BY-GSA-MW-3 (bg)



Constituent: Sulfate Analysis Run 7/14/2021 1:00 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-GSA-MW-4 (bg)

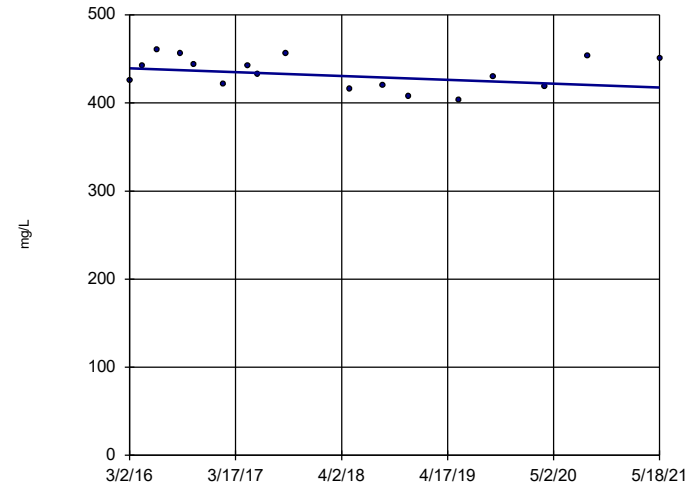


n = 16
 Slope = -0.04665 units per year.
 Mann-Kendall statistic = -13
 critical = -58
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 7/14/2021 1:00 AM View: Appendix III Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-1

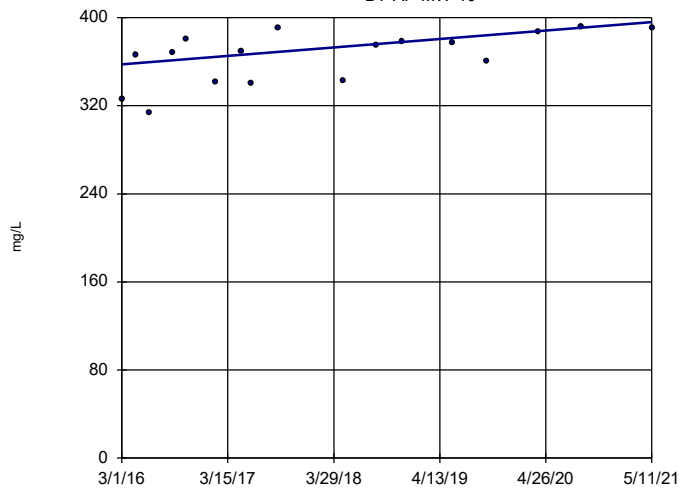


n = 17
 Slope = -4.154 units per year.
 Mann-Kendall statistic = -32
 critical = -63
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 7/14/2021 1:00 AM View: Appendix III Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-10

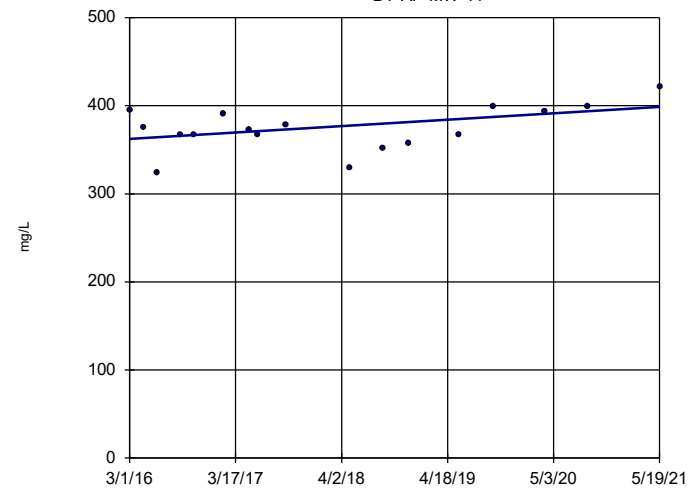


n = 17
 Slope = 7.358 units per year.
 Mann-Kendall statistic = 69
 critical = 63
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 7/14/2021 1:00 AM View: Appendix III Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-11

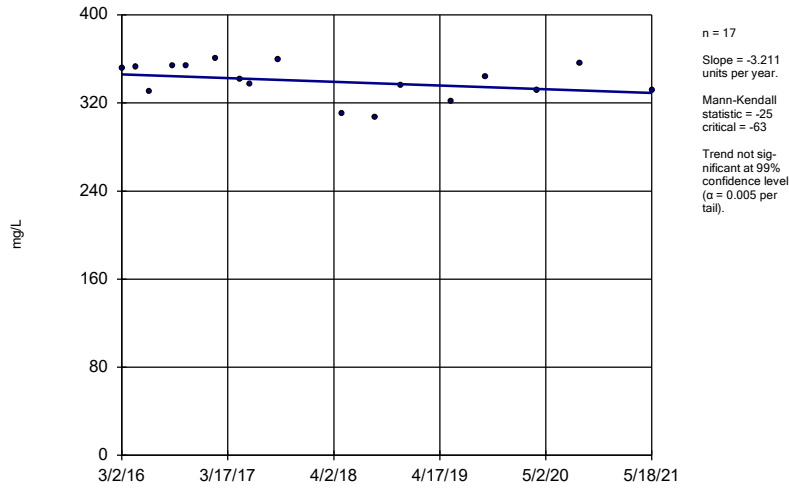


n = 17
 Slope = 6.969 units per year.
 Mann-Kendall statistic = 33
 critical = 63
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 7/14/2021 1:00 AM View: Appendix III Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

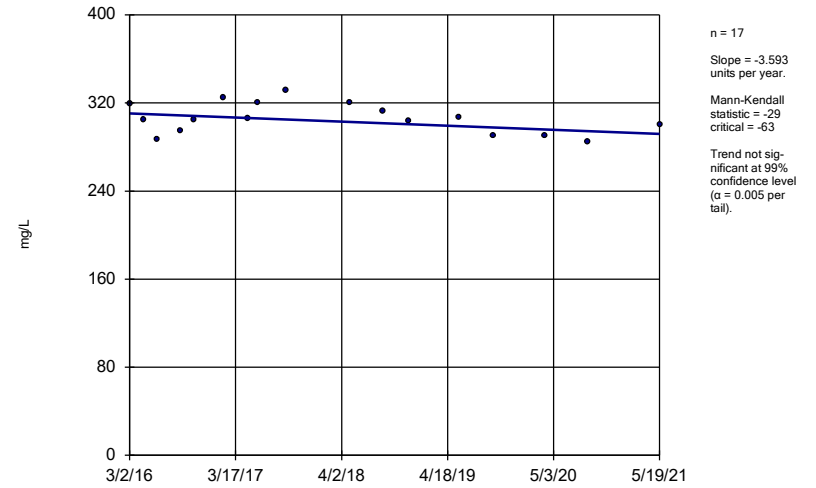
BY-AP-MW-12



Constituent: TDS Analysis Run 7/14/2021 1:00 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

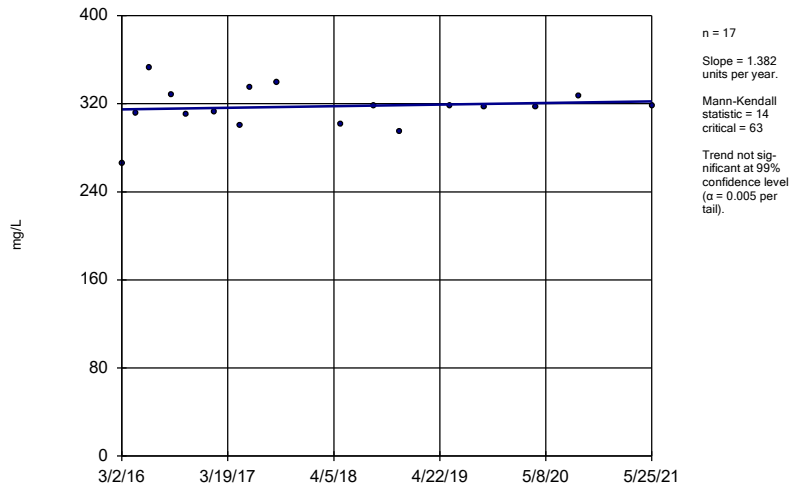
BY-AP-MW-13



Constituent: TDS Analysis Run 7/14/2021 1:00 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

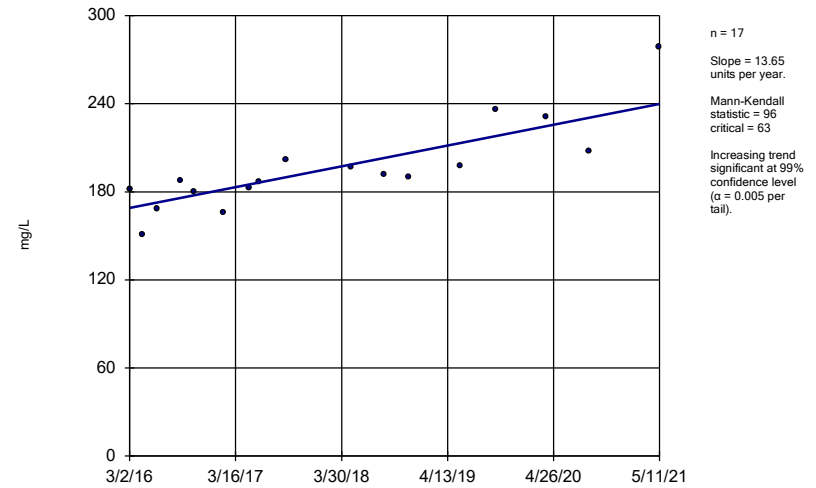
BY-AP-MW-14



Constituent: TDS Analysis Run 7/14/2021 1:00 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

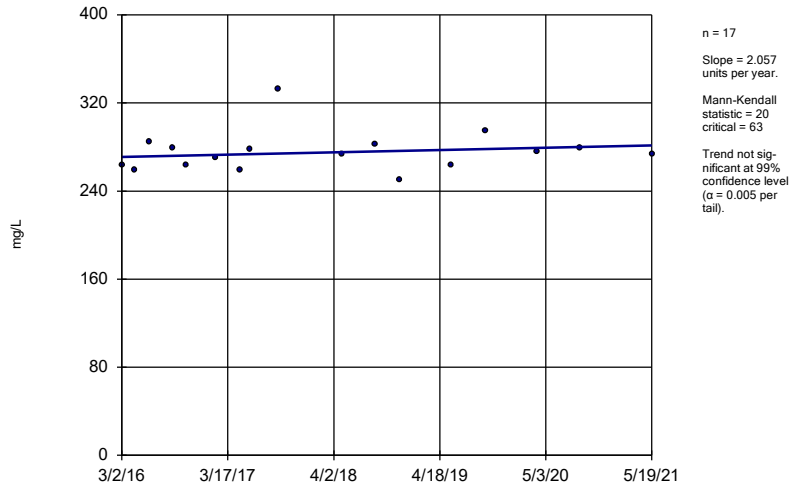
BY-AP-MW-15



Constituent: TDS Analysis Run 7/14/2021 1:00 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

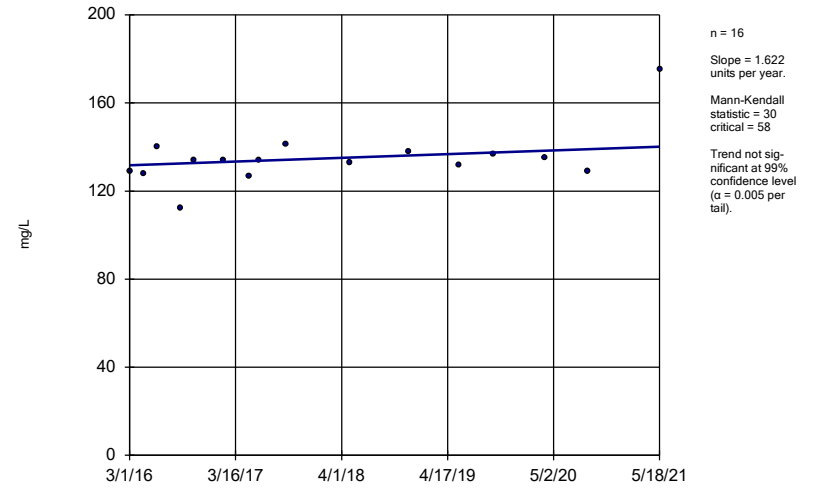
BY-AP-MW-16



Constituent: TDS Analysis Run 7/14/2021 1:00 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

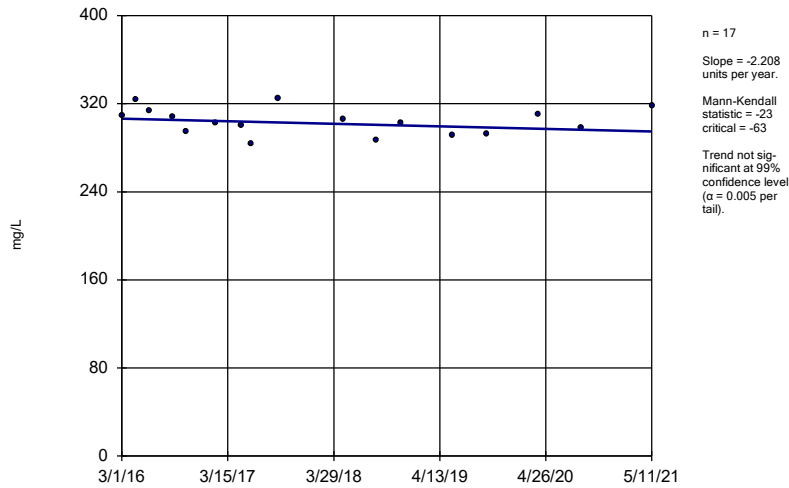
BY-AP-MW-7



Constituent: TDS Analysis Run 7/14/2021 1:00 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

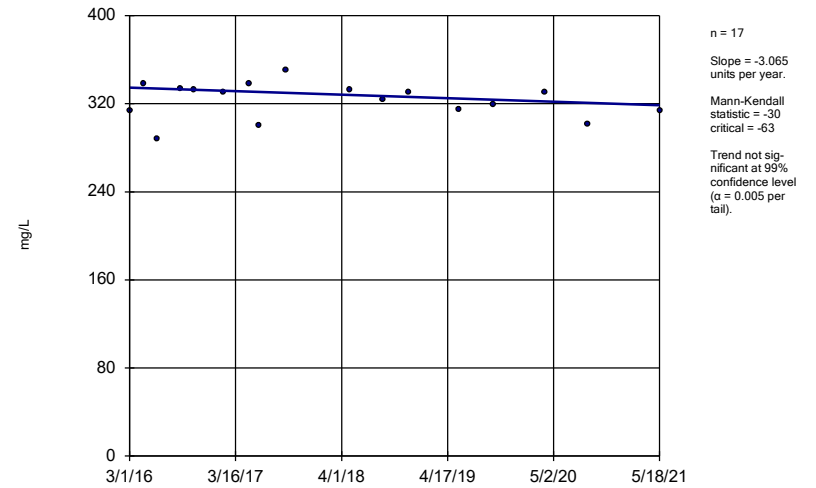
BY-AP-MW-8



Constituent: TDS Analysis Run 7/14/2021 1:00 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

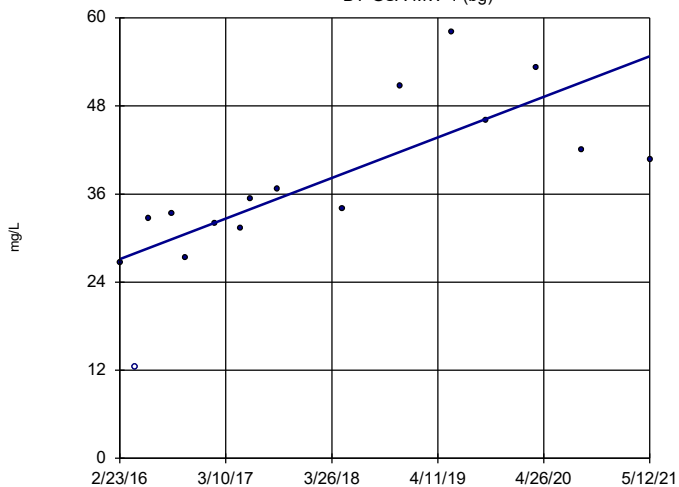
BY-AP-MW-9



Constituent: TDS Analysis Run 7/14/2021 1:00 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

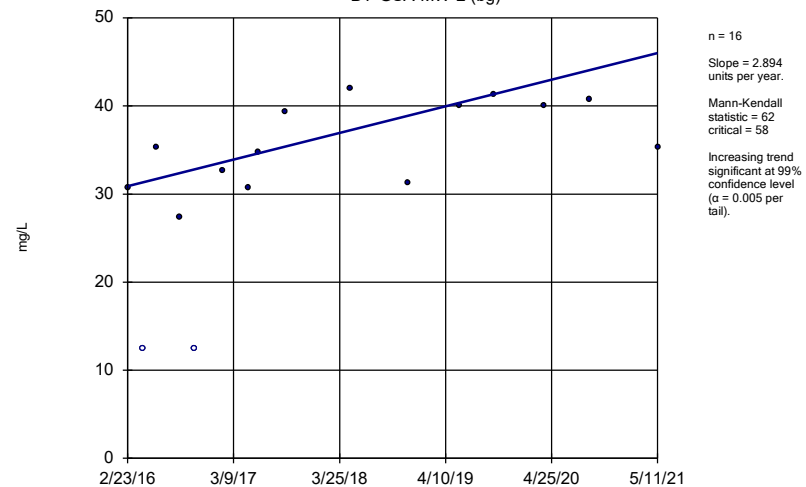
BY-GSA-MW-1 (bg)



Constituent: TDS Analysis Run 7/14/2021 1:00 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

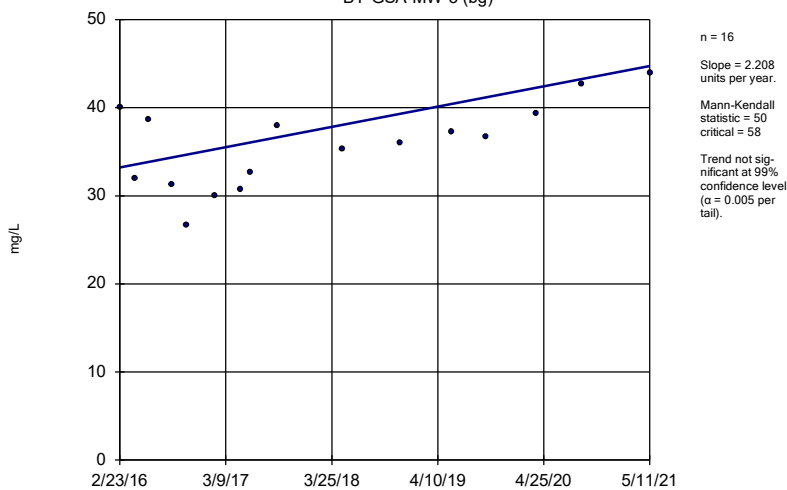
BY-GSA-MW-2 (bg)



Constituent: TDS Analysis Run 7/14/2021 1:00 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

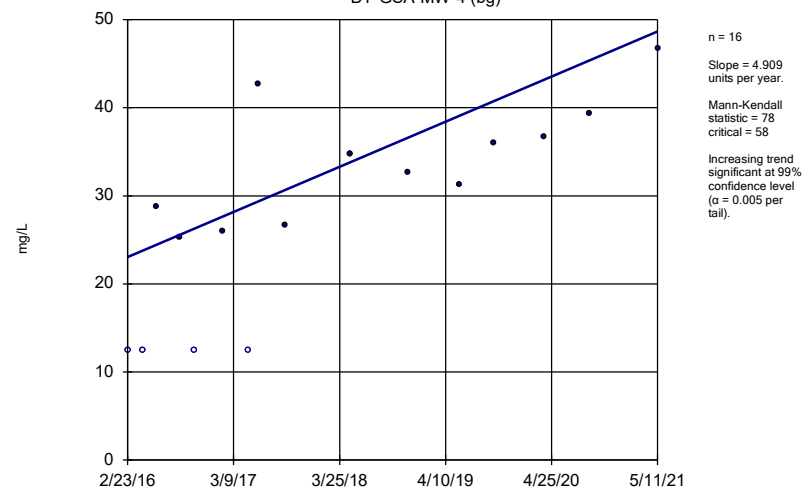
BY-GSA-MW-3 (bg)



Constituent: TDS Analysis Run 7/14/2021 1:00 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-GSA-MW-4 (bg)



Constituent: TDS Analysis Run 7/14/2021 1:00 AM View: Appendix III Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

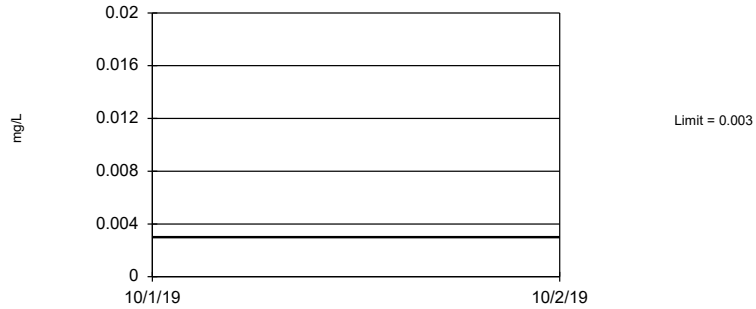
FIGURE G.

Upper Tolerance Limits - Appendix IV

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 7/23/2020, 4:09 PM

Constituent	Upper Lim.	Lower Lim.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.003	n/a	52	n/a	n/a	90.38	n/a	n/a	0.06944	NP Inter(NDs)
Arsenic (mg/L)	0.005	n/a	52	n/a	n/a	100	n/a	n/a	0.06944	NP Inter(NDs)
Barium (mg/L)	0.183	n/a	52	n/a	n/a	0	n/a	n/a	0.06944	NP Inter(normal...
Beryllium (mg/L)	0.003	n/a	50	n/a	n/a	94	n/a	n/a	0.07694	NP Inter(NDs)
Cadmium (mg/L)	0.001	n/a	52	n/a	n/a	100	n/a	n/a	0.06944	NP Inter(NDs)
Chromium (mg/L)	0.01	n/a	52	n/a	n/a	96.15	n/a	n/a	0.06944	NP Inter(NDs)
Cobalt (mg/L)	0.0157	n/a	51	n/a	n/a	68.63	n/a	n/a	0.0731	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	3.202	n/a	52	0.9903	0.2355	0	None	x^(1/3)	0.05	Inter
Fluoride (mg/L)	0.1	n/a	56	n/a	n/a	39.29	n/a	n/a	0.05656	NP Inter(normal...
Lead (mg/L)	0.005	n/a	52	n/a	n/a	100	n/a	n/a	0.06944	NP Inter(NDs)
Lithium (mg/L)	0.02	n/a	52	n/a	n/a	100	n/a	n/a	0.06944	NP Inter(NDs)
Mercury (mg/L)	0.0005	n/a	52	n/a	n/a	100	n/a	n/a	0.06944	NP Inter(NDs)
Molybdenum (mg/L)	0.01	n/a	52	n/a	n/a	100	n/a	n/a	0.06944	NP Inter(NDs)
Selenium (mg/L)	0.01	n/a	52	n/a	n/a	100	n/a	n/a	0.06944	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	52	n/a	n/a	100	n/a	n/a	0.06944	NP Inter(NDs)

Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 52 background values. 90.38% NDs. 91.6% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.06944.

Constituent: Antimony Analysis Run 7/23/2020 4:01 PM View: UTL's - Appendix IV
Plant Barry Client: Southern Company Data: Barry Ash Pond

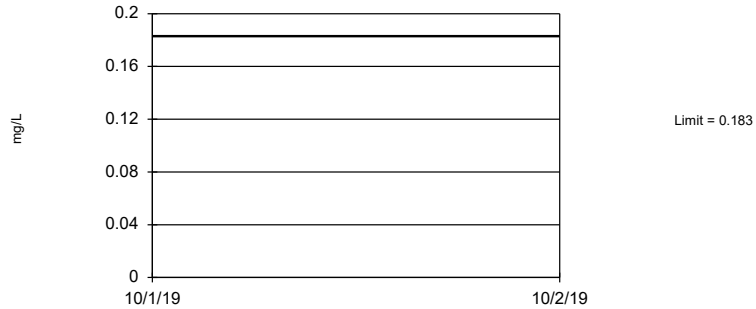
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. All background values were censored; limit is most recent reporting limit. 91.6% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.06944.

Constituent: Arsenic Analysis Run 7/23/2020 4:01 PM View: UTL's - Appendix IV
Plant Barry Client: Southern Company Data: Barry Ash Pond

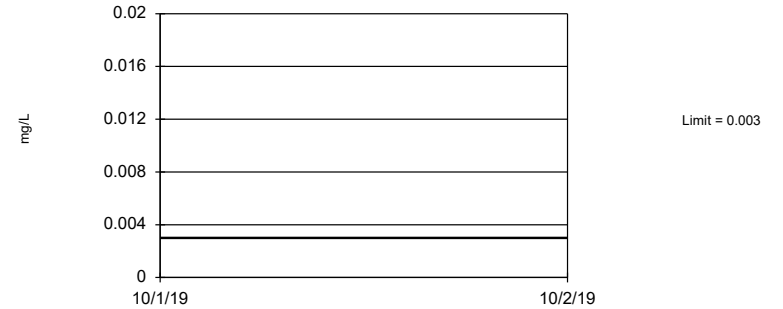
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 52 background values. 91.6% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.06944.

Constituent: Barium Analysis Run 7/23/2020 4:01 PM View: UTL's - Appendix IV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 50 background values. 94% NDs. 91.21% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.07694.

Constituent: Beryllium Analysis Run 7/23/2020 4:01 PM View: UTL's - Appendix IV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. All background values were censored; limit is most recent reporting limit. 91.6% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.06944.

Constituent: Cadmium Analysis Run 7/23/2020 4:01 PM View: UTL's - Appendix IV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 52 background values. 96.15% NDs. 91.6% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.06944.

Constituent: Chromium Analysis Run 7/23/2020 4:01 PM View: UTL's - Appendix IV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 51 background values. 68.63% NDs. 91.21% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.0731.

Constituent: Cobalt Analysis Run 7/23/2020 4:01 PM View: UTL's - Appendix IV
Plant Barry Client: Southern Company Data: Barry Ash Pond

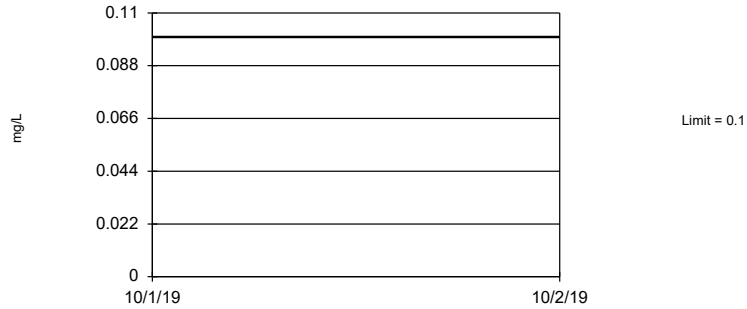
Tolerance Limit
Interwell Parametric



95% coverage. Background Data Summary (based on cube root transformation): Mean=0.9903, Std. Dev.=0.2355, n=52. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9388, critical = 0.937. Report alpha = 0.05.

Constituent: Combined Radium 226 + 228 Analysis Run 7/23/2020 4:01 PM View: UTL's - Appendix IV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 56 background values. 39.29% NDs. 91.99% coverage at alpha=0.01; 94.73% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.05656.

Constituent: Fluoride Analysis Run 7/23/2020 4:01 PM View: UTL's - Appendix IV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. All background values were censored; limit is most recent reporting limit. 91.6% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.06944.

Constituent: Lead Analysis Run 7/23/2020 4:01 PM View: UTL's - Appendix IV
Plant Barry Client: Southern Company Data: Barry Ash Pond

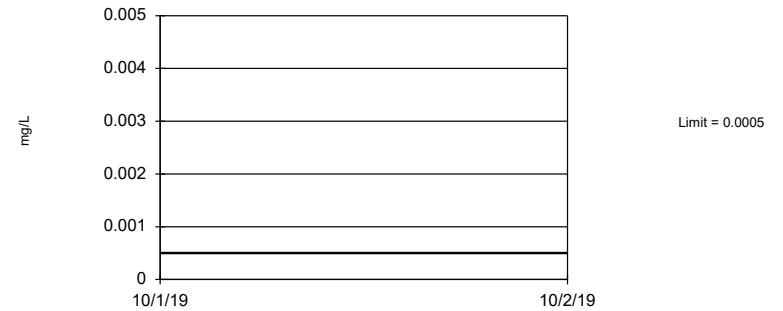
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. All background values were censored; limit is most recent reporting limit. 91.6% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.06944.

Constituent: Lithium Analysis Run 7/23/2020 4:01 PM View: UTL's - Appendix IV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. All background values were censored; limit is most recent reporting limit. 91.6% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.06944.

Constituent: Mercury Analysis Run 7/23/2020 4:01 PM View: UTL's - Appendix IV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. All background values were censored; limit is most recent reporting limit. 91.6% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.06944.

Constituent: Molybdenum Analysis Run 7/23/2020 4:01 PM View: UTL's - Appendix IV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. All background values were censored; limit is most recent reporting limit. 91.6% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.06944.

Constituent: Selenium Analysis Run 7/23/2020 4:01 PM View: UTL's - Appendix IV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. All background values were censored; limit is most recent reporting limit. 91.6% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.06944.

Constituent: Thallium Analysis Run 7/23/2020 4:01 PM View: UTL's - Appendix IV
Plant Barry Client: Southern Company Data: Barry Ash Pond

FIGURE H.

BARRY ASH POND GWPS			
Analyte	Units	Background	GWPS
Antimony	mg/L	0.003	0.006
Arsenic	mg/L	0.005	0.01
Barium	mg/L	0.183	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	0.0157	0.0157
Combined Radium-226/228	pCi/L	3.202	5
Fluoride	mg/L	0.1	4
Lead	mg/L	0.005	0.015
Lithium	mg/L	0.02	0.04
Mercury	mg/L	0.0005	0.002
Molybdenum	mg/L	0.01	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 2019.

FIGURE I.

Confidence Interval Summary Table - Significant Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 7/14/2021, 12:23 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Arsenic (mg/L)	BY-AP-MW-1	0.07727	0.05771	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-10	0.07736	0.05314	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-11	0.01651	0.01394	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-12	0.02444	0.02173	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-13	0.0175	0.0138	0.01	Yes	8	0	No	0.004	NP (normality)
Arsenic (mg/L)	BY-AP-MW-14	0.01732	0.01428	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-15	0.01941	0.01566	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-16	0.01411	0.01069	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-7	0.02274	0.01973	0.01	Yes	8	0	x^4	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-8	0.06276	0.05016	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-9	0.0437	0.0349	0.01	Yes	8	0	No	0.004	NP (normality)
Cobalt (mg/L)	BY-AP-MW-15	0.03666	0.02931	0.0157	Yes	8	0	No	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-7	0.01955	0.0166	0.0157	Yes	8	0	No	0.01	Param.

Confidence Interval Summary Table - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 7/14/2021, 12:23 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	BY-AP-MW-13	0.001015	0.001015	0.006	No	8	100	No	0.004	NP (NDs)
Arsenic (mg/L)	BY-AP-MW-1	0.07727	0.05771	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-10	0.07736	0.05314	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-11	0.01651	0.01394	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-12	0.02444	0.02173	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-13	0.0175	0.0138	0.01	Yes	8	0	No	0.004	NP (normality)
Arsenic (mg/L)	BY-AP-MW-14	0.01732	0.01428	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-15	0.01941	0.01566	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-16	0.01411	0.01069	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-2	0.001683	0.001377	0.01	No	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-4	0.0025	0.000125	0.01	No	8	87.5	No	0.004	NP (NDs)
Arsenic (mg/L)	BY-AP-MW-6	0.0025	0.000103	0.01	No	8	87.5	No	0.004	NP (NDs)
Arsenic (mg/L)	BY-AP-MW-7	0.02274	0.01973	0.01	Yes	8	0	x^4	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-8	0.06276	0.05016	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-9	0.0437	0.0349	0.01	Yes	8	0	No	0.004	NP (normality)
Barium (mg/L)	BY-AP-MW-1	0.339	0.271	2	No	8	0	No	0.004	NP (normality)
Barium (mg/L)	BY-AP-MW-10	0.0764	0.0648	2	No	8	0	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-11	0.09914	0.07028	2	No	8	0	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-12	0.08638	0.07587	2	No	8	0	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-13	0.0817	0.0688	2	No	8	0	No	0.004	NP (normality)
Barium (mg/L)	BY-AP-MW-14	0.0745	0.0589	2	No	8	0	No	0.004	NP (normality)
Barium (mg/L)	BY-AP-MW-15	0.07276	0.05269	2	No	8	0	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-16	0.09609	0.07753	2	No	8	0	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-2	0.02735	0.02335	2	No	8	0	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-3	0.03953	0.0334	2	No	8	0	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-4	0.02854	0.01591	2	No	8	0	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-6	0.02874	0.02358	2	No	8	0	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-7	0.07042	0.05771	2	No	8	0	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-8	0.1496	0.1344	2	No	8	0	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-9	0.1246	0.1144	2	No	8	0	No	0.01	Param.
Beryllium (mg/L)	BY-AP-MW-13	0.001015	0.001015	0.004	No	8	100	No	0.004	NP (NDs)
Beryllium (mg/L)	BY-AP-MW-4	0.001015	0.00071	0.004	No	8	87.5	No	0.004	NP (NDs)
Cadmium (mg/L)	BY-AP-MW-13	0.000203	0.000203	0.005	No	8	100	No	0.004	NP (NDs)
Chromium (mg/L)	BY-AP-MW-1	0.003982	0.002225	0.1	No	8	0	No	0.01	Param.
Chromium (mg/L)	BY-AP-MW-10	0.01	0.000685	0.1	No	8	87.5	No	0.004	NP (NDs)
Chromium (mg/L)	BY-AP-MW-11	0.003139	0.002131	0.1	No	8	0	No	0.01	Param.
Chromium (mg/L)	BY-AP-MW-12	0.00605	0.00325	0.1	No	8	0	No	0.004	NP (normality)
Chromium (mg/L)	BY-AP-MW-13	0.008739	0.006453	0.1	No	8	0	No	0.01	Param.
Chromium (mg/L)	BY-AP-MW-14	0.005547	0.00421	0.1	No	8	0	No	0.01	Param.
Chromium (mg/L)	BY-AP-MW-15	0.01	0.000581	0.1	No	8	87.5	No	0.004	NP (NDs)
Chromium (mg/L)	BY-AP-MW-16	0.01	0.00162	0.1	No	8	75	No	0.004	NP (NDs)
Chromium (mg/L)	BY-AP-MW-2	0.01	0.000394	0.1	No	8	87.5	No	0.004	NP (NDs)
Chromium (mg/L)	BY-AP-MW-3	0.01	0.000919	0.1	No	8	87.5	No	0.004	NP (NDs)
Chromium (mg/L)	BY-AP-MW-4	0.01	0.000544	0.1	No	8	87.5	No	0.004	NP (NDs)
Chromium (mg/L)	BY-AP-MW-6	0.01	0.000313	0.1	No	8	87.5	No	0.004	NP (NDs)
Chromium (mg/L)	BY-AP-MW-7	0.01	0.00328	0.1	No	8	75	No	0.004	NP (NDs)
Chromium (mg/L)	BY-AP-MW-8	0.01	0.00156	0.1	No	8	87.5	No	0.004	NP (NDs)
Chromium (mg/L)	BY-AP-MW-9	0.01	0.00078	0.1	No	8	87.5	No	0.004	NP (NDs)
Cobalt (mg/L)	BY-AP-MW-1	0.005	0.000996	0.0157	No	8	87.5	No	0.004	NP (NDs)
Cobalt (mg/L)	BY-AP-MW-10	0.005	0.000636	0.0157	No	8	87.5	No	0.004	NP (NDs)
Cobalt (mg/L)	BY-AP-MW-11	0.005	0.00257	0.0157	No	8	87.5	No	0.004	NP (NDs)
Cobalt (mg/L)	BY-AP-MW-12	0.003529	0.002631	0.0157	No	8	0	No	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-13	0.005	0.00113	0.0157	No	8	87.5	No	0.004	NP (NDs)
Cobalt (mg/L)	BY-AP-MW-14	0.005	0.00124	0.0157	No	8	87.5	No	0.004	NP (NDs)
Cobalt (mg/L)	BY-AP-MW-15	0.03666	0.02931	0.0157	Yes	8	0	No	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-16	0.02038	0.01378	0.0157	No	8	0	x^4	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-2	0.00757	0.006428	0.0157	No	8	0	No	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-3	0.005	0.000196	0.0157	No	8	87.5	No	0.004	NP (NDs)
Cobalt (mg/L)	BY-AP-MW-4	0.01362	0.00208	0.0157	No	8	25	x^(1/3)	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-6	0.005	0.000678	0.0157	No	8	87.5	No	0.004	NP (NDs)
Cobalt (mg/L)	BY-AP-MW-7	0.01955	0.0166	0.0157	Yes	8	0	No	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-8	0.005	0.000778	0.0157	No	8	87.5	No	0.004	NP (NDs)
Cobalt (mg/L)	BY-AP-MW-9	0.005	0.000725	0.0157	No	8	87.5	No	0.004	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-1	2.754	1.414	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-10	1.094	0.252	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-11	1.101	0.3429	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-12	1.55	0.759	5	No	8	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-13	1.082	0.6379	5	No	8	0	No	0.01	Param.

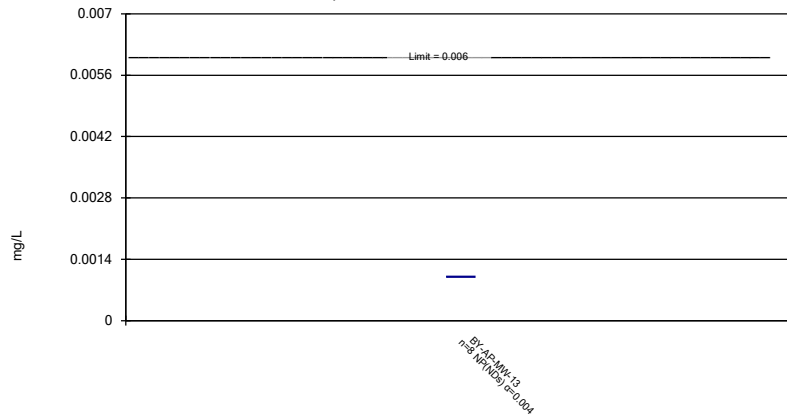
Confidence Interval Summary Table - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 7/14/2021, 12:23 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-14	0.9902	0.2738	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-15	0.8922	0.3436	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-16	1.308	0.3189	5	No	8	0	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-2	0.881	0.1655	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-3	1.515	0.2348	5	No	8	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-4	0.8562	0.2177	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-6	1.291	-0.06023	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-7	0.6993	0.3021	5	No	8	0	x^2	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-8	0.7159	0.4263	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-9	1.064	0.6885	5	No	8	0	No	0.01	Param.
Fluoride (mg/L)	BY-AP-MW-1	0.1315	0.04961	4	No	8	12.5	x^(1/3)	0.01	Param.
Fluoride (mg/L)	BY-AP-MW-10	0.105	0.0573	4	No	8	62.5	No	0.004	NP (NDs)
Fluoride (mg/L)	BY-AP-MW-11	0.0892	0.05598	4	No	8	0	No	0.01	Param.
Fluoride (mg/L)	BY-AP-MW-12	0.07827	0.04855	4	No	8	0	No	0.01	Param.
Fluoride (mg/L)	BY-AP-MW-13	0.07582	0.05798	4	No	8	0	No	0.01	Param.
Fluoride (mg/L)	BY-AP-MW-14	0.09535	0.07082	4	No	8	0	No	0.01	Param.
Fluoride (mg/L)	BY-AP-MW-15	0.2007	0.1728	4	No	8	0	No	0.01	Param.
Fluoride (mg/L)	BY-AP-MW-16	0.07673	0.05167	4	No	8	25	No	0.01	Param.
Fluoride (mg/L)	BY-AP-MW-2	0.1	0.1	4	No	8	100	No	0.004	NP (NDs)
Fluoride (mg/L)	BY-AP-MW-7	0.1065	0.07815	4	No	8	0	No	0.01	Param.
Fluoride (mg/L)	BY-AP-MW-8	0.1	0.04	4	No	8	25	No	0.004	NP (normality)
Fluoride (mg/L)	BY-AP-MW-9	0.07817	0.04958	4	No	8	0	No	0.01	Param.
Lead (mg/L)	BY-AP-MW-11	0.000203	0.000102	0.015	No	8	87.5	No	0.004	NP (NDs)
Lead (mg/L)	BY-AP-MW-12	0.000326	0.000203	0.015	No	8	87.5	No	0.004	NP (NDs)
Lead (mg/L)	BY-AP-MW-14	0.000203	0.0000764	0.015	No	8	87.5	No	0.004	NP (NDs)
Lead (mg/L)	BY-AP-MW-16	0.000203	0.000191	0.015	No	8	87.5	No	0.004	NP (NDs)
Lead (mg/L)	BY-AP-MW-4	0.000203	0.00013	0.015	No	8	87.5	No	0.004	NP (NDs)
Lead (mg/L)	BY-AP-MW-6	0.003528	0.001336	0.015	No	8	37.5	sqrt(x)	0.01	Param.
Lead (mg/L)	BY-AP-MW-9	0.00108	0.000203	0.015	No	8	87.5	No	0.004	NP (NDs)
Lithium (mg/L)	BY-AP-MW-11	0.03375	0.01099	0.04	No	8	25	No	0.01	Param.
Lithium (mg/L)	BY-AP-MW-15	0.02443	0.01105	0.04	No	8	37.5	No	0.01	Param.
Lithium (mg/L)	BY-AP-MW-7	0.0882	0.0102	0.04	No	8	62.5	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-11	0.01	0.000106	0.1	No	8	87.5	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-11	0.01	0.00652	0.1	No	8	87.5	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-12	0.01	0.000947	0.1	No	8	87.5	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-13	0.01	0.000437	0.1	No	8	87.5	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-14	0.01	0.000701	0.1	No	8	87.5	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-15	0.01	0.00171	0.1	No	8	62.5	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-16	0.01	0.000136	0.1	No	8	87.5	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-6	0.01	0.000117	0.1	No	8	87.5	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-7	0.01	0.000214	0.1	No	8	87.5	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-8	0.01	0.000321	0.1	No	8	87.5	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-9	0.01	0.00022	0.1	No	8	87.5	No	0.004	NP (NDs)
Thallium (mg/L)	BY-AP-MW-13	0.000203	0.000203	0.002	No	8	100	No	0.004	NP (NDs)

Non-Parametric Confidence Interval

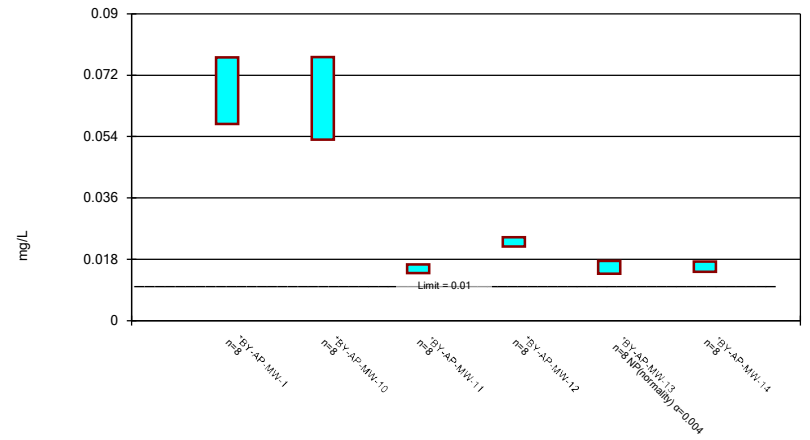
Compliance Limit is not exceeded.



Constituent: Antimony Analysis Run 7/14/2021 12:21 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

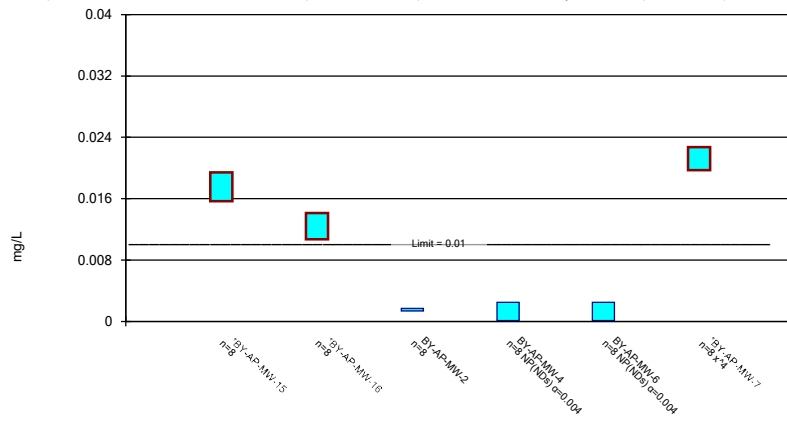
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 7/14/2021 12:21 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

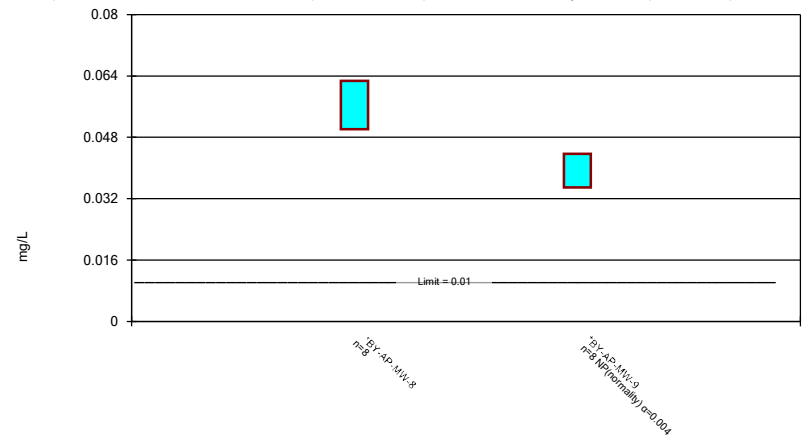
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Constituent: Arsenic Analysis Run 7/14/2021 12:21 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

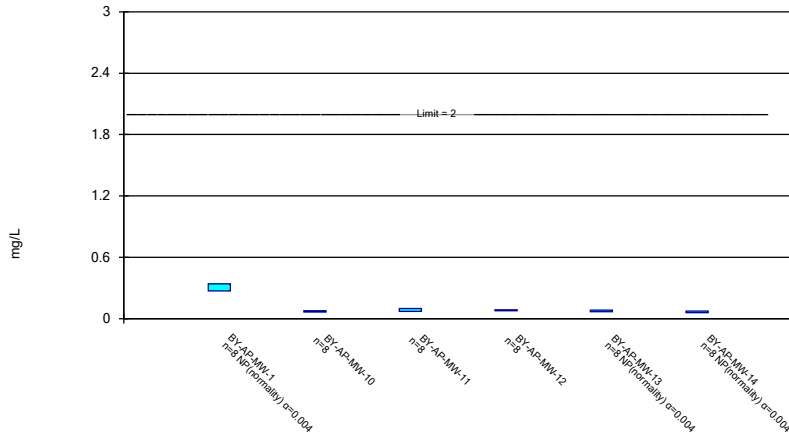
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Constituent: Arsenic Analysis Run 7/14/2021 12:21 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

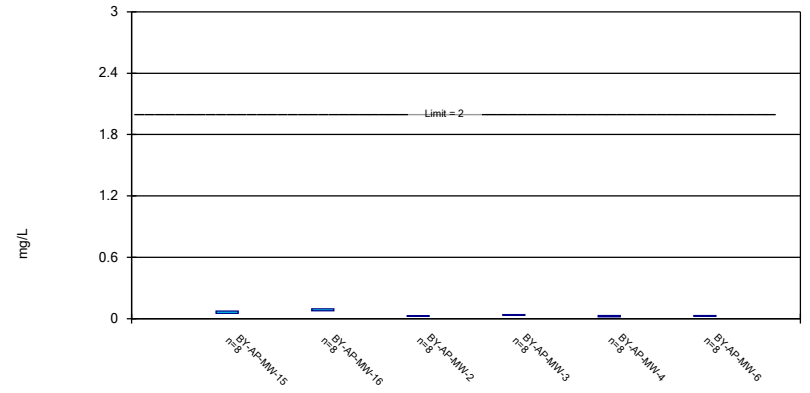
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Constituent: Barium Analysis Run 7/14/2021 12:21 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric Confidence Interval

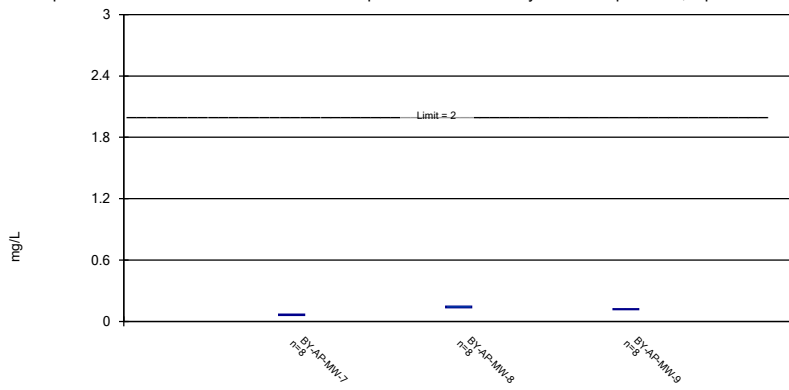
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Constituent: Barium Analysis Run 7/14/2021 12:21 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric Confidence Interval

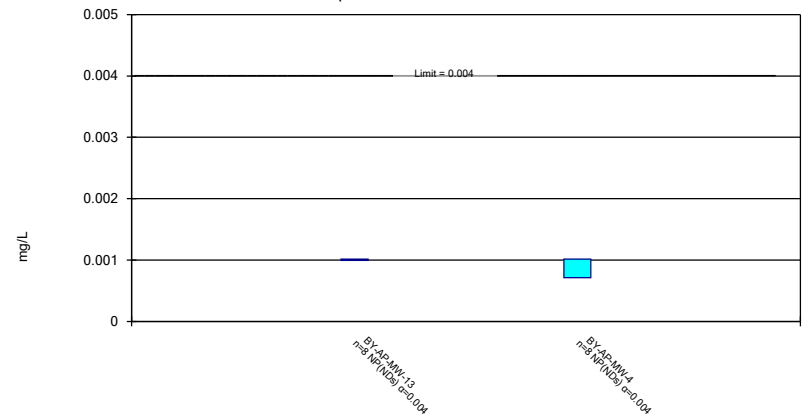
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 7/14/2021 12:21 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

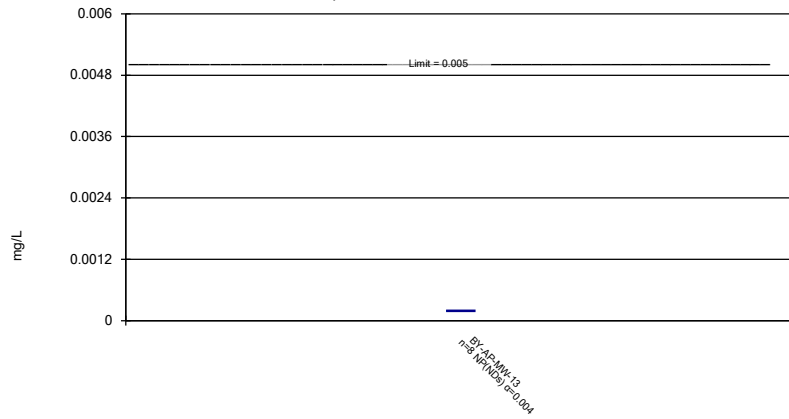
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Beryllium Analysis Run 7/14/2021 12:21 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

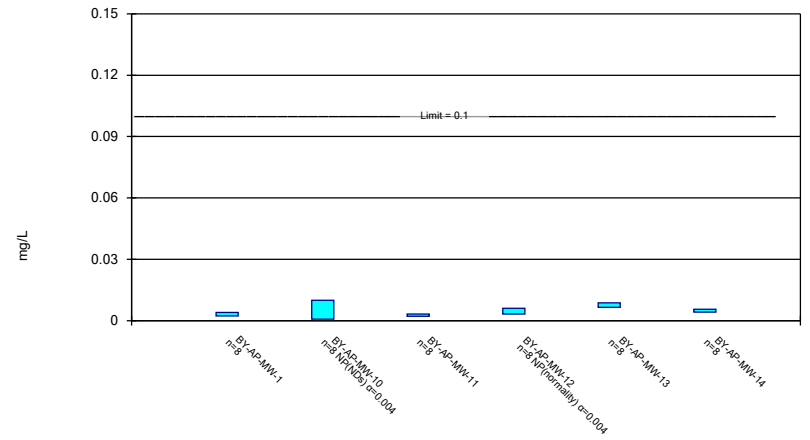
Non-Parametric Confidence Interval Compliance Limit is not exceeded.



Constituent: Cadmium Analysis Run 7/14/2021 12:21 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

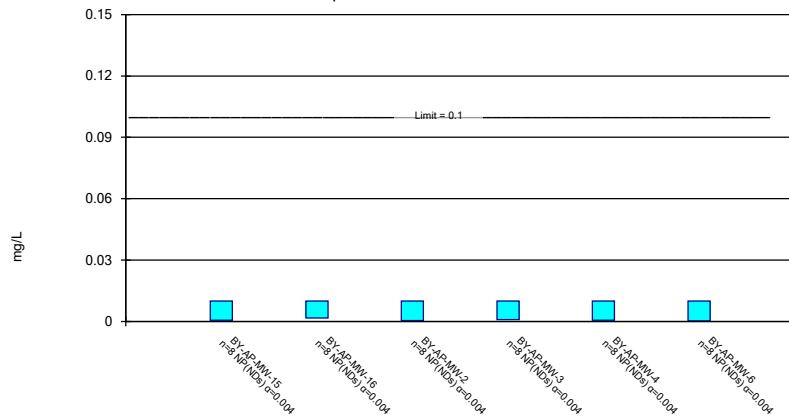
Parametric and Non-Parametric (NP) Confidence Interval

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



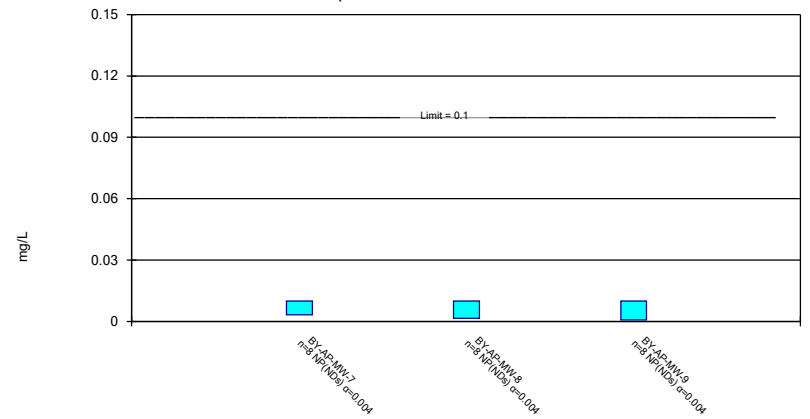
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Non-Parametric Confidence Interval Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 7/14/2021 12:21 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

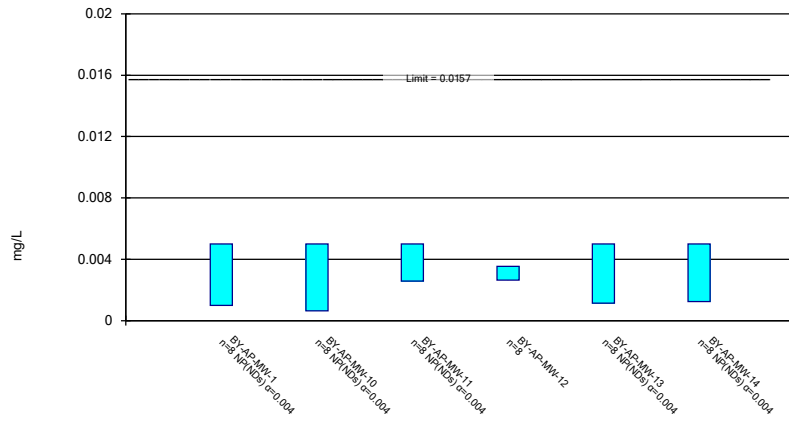
Non-Parametric Confidence Interval Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 7/14/2021 12:21 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

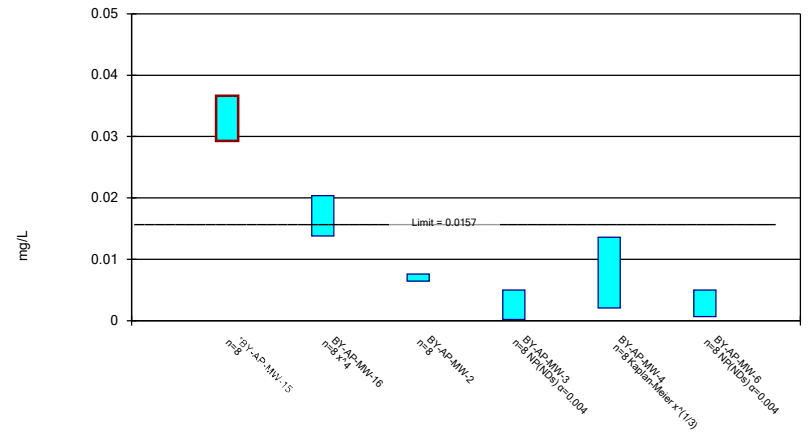
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Constituent: Cobalt Analysis Run 7/14/2021 12:21 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

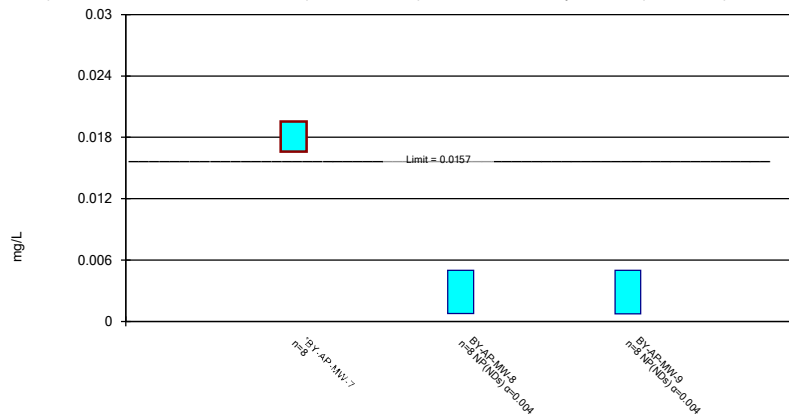
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 7/14/2021 12:21 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

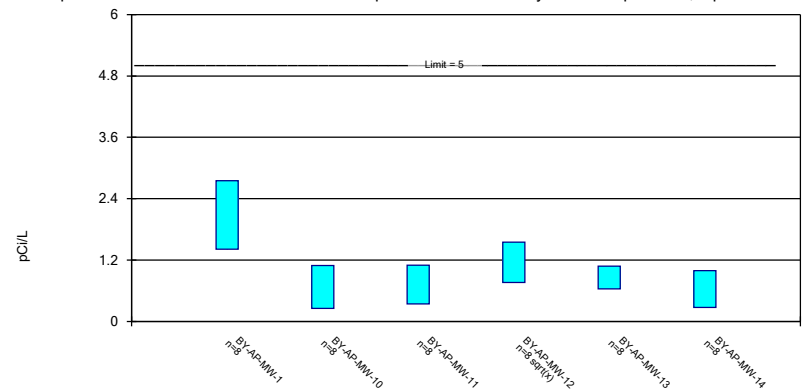
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 7/14/2021 12:21 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric Confidence Interval

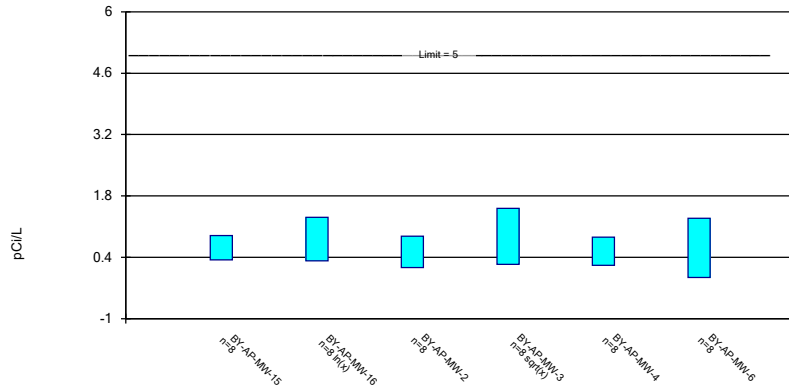
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 7/14/2021 12:21 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric Confidence Interval

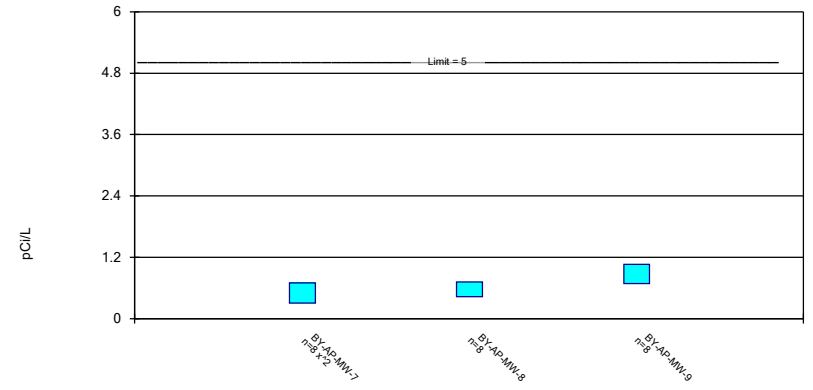
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 7/14/2021 12:21 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric Confidence Interval

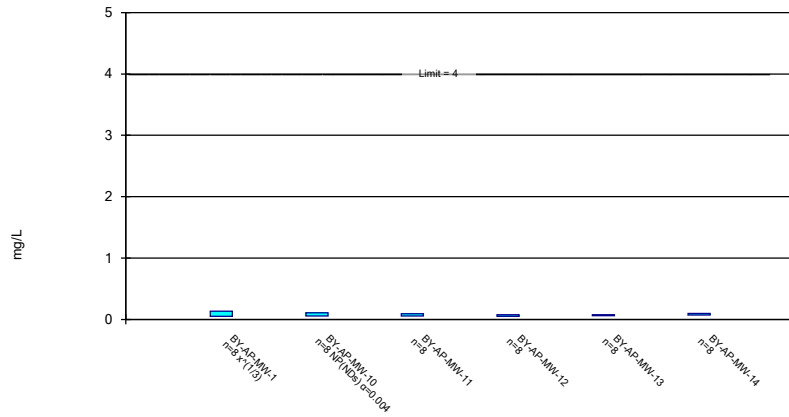
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 7/14/2021 12:21 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

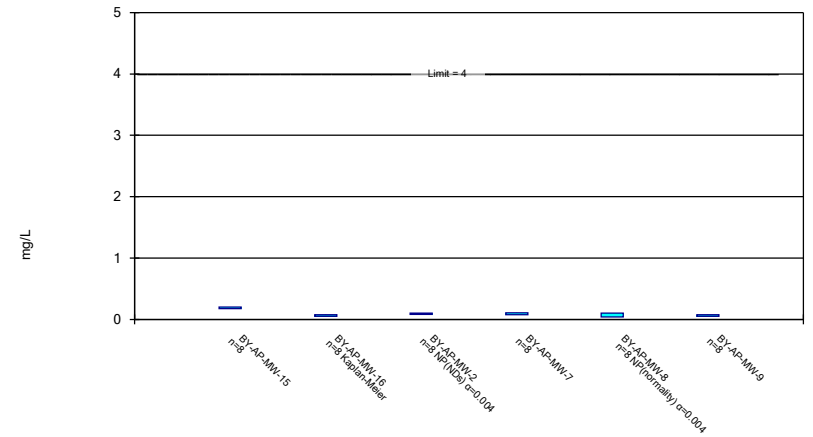
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 7/14/2021 12:21 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

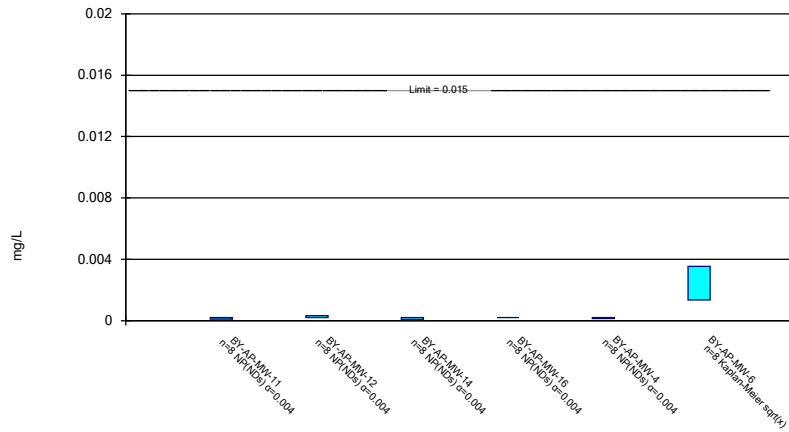
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 7/14/2021 12:21 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

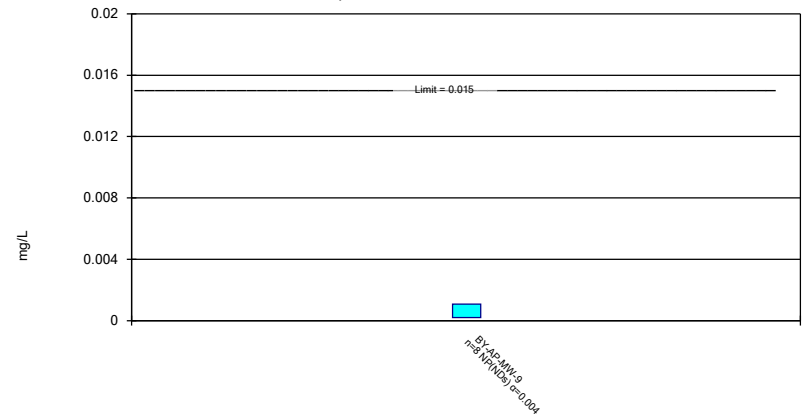
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 7/14/2021 12:21 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Non-Parametric Confidence Interval

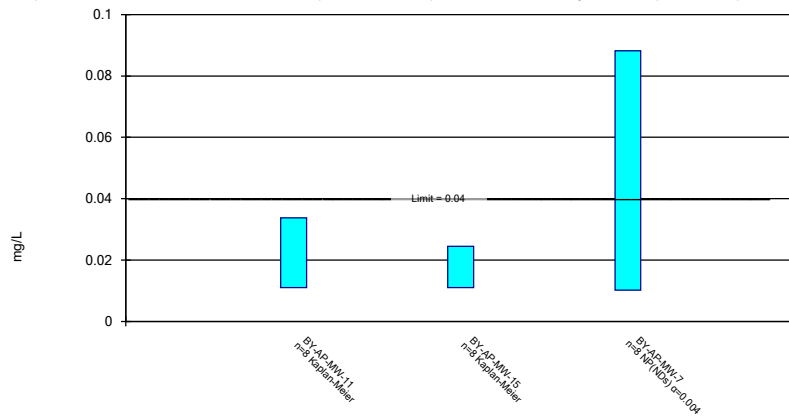
Compliance Limit is not exceeded.



Constituent: Lead Analysis Run 7/14/2021 12:21 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

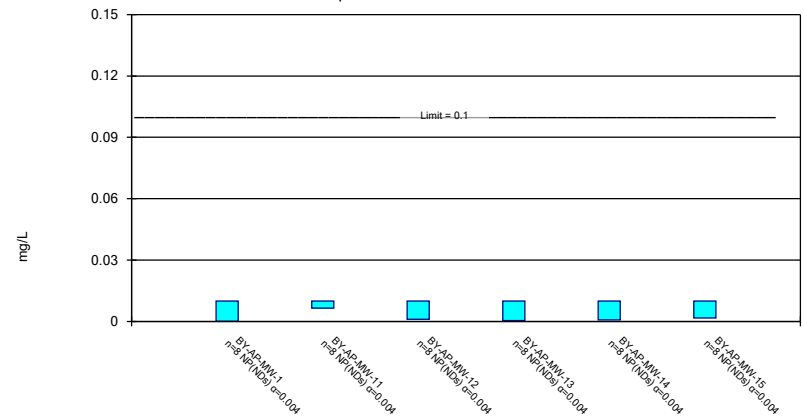
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 7/14/2021 12:21 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Non-Parametric Confidence Interval

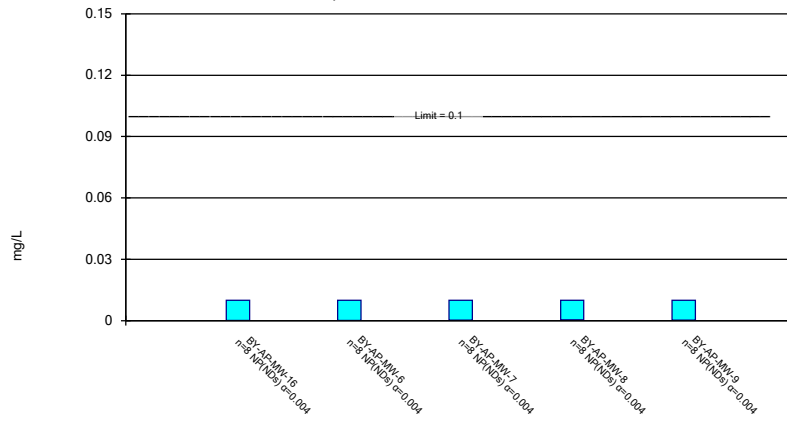
Compliance Limit is not exceeded.



Constituent: Molybdenum Analysis Run 7/14/2021 12:21 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Non-Parametric Confidence Interval

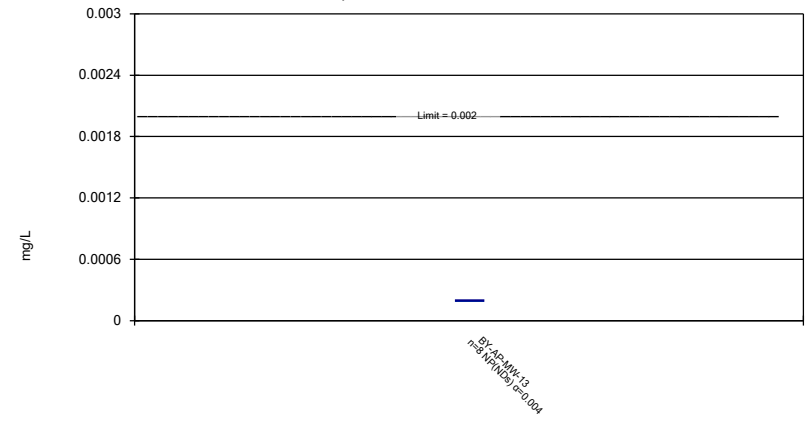
Compliance Limit is not exceeded.



Constituent: Molybdenum Analysis Run 7/14/2021 12:21 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Thallium Analysis Run 7/14/2021 12:21 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 7/14/2021 12:39 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7	BY-AP-MW-8	BY-AP-MW-9
6/7/2017	<0.003	<0.003	<0.003
1/23/2018			<0.001015
1/24/2018	<0.001015	<0.001015	
5/2/2018	<0.001015	<0.001015	<0.001015
11/27/2018		<0.001015	
11/28/2018	<0.001015		<0.001015
5/29/2019	<0.001015	<0.001015	
5/30/2019			<0.001015
9/30/2019	<0.001015	<0.001015	<0.001015
3/30/2020	<0.001015	<0.001015	
3/31/2020			<0.001015
9/2/2020	<0.001015	<0.001015	<0.001015
5/11/2021		<0.001015	
5/18/2021	<0.001015		<0.001015
Mean	0.001015	0.001015	0.001015
Std. Dev.	0	0	0
Upper Lim.	0.001015	0.001015	0.001015
Lower Lim.	0.001015	0.001015	0.001015

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 7/14/2021 12:39 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-13	BY-AP-MW-14
6/6/2017	0.0527					0.0129
6/7/2017		0.0303	0.0145	0.0211	0.0141	
1/22/2018					0.0149	
1/23/2018		0.0362	0.0154	0.0227		0.0148
1/24/2018	0.07					
5/1/2018	0.0777					
5/2/2018		0.0433	0.0158	0.0239	0.0175	0.0156
11/27/2018						0.0145
11/28/2018	0.0677	0.0536	0.014	0.0216	0.0141	
5/29/2019	0.0555		0.0132	0.0215	0.0138	0.014
5/30/2019		0.0671				
7/31/2019		0.0649				
9/30/2019		0.0704	0.0145			
10/1/2019	0.0635			0.0221	0.0144	0.0152
3/30/2020	0.0557					
3/31/2020		0.0702	0.0158	0.0246	0.0154	0.0177
9/1/2020	0.0811	0.0763	0.0165	0.0246	0.0148	
9/2/2020						0.0174
5/11/2021		0.0762				
5/18/2021	0.0687			0.0237		
5/19/2021			0.0166		0.014	
5/25/2021						0.0172
Mean	0.06749	0.06525	0.01523	0.02309	0.01486	0.0158
Std. Dev.	0.009227	0.01143	0.001215	0.00128	0.00119	0.001437
Upper Lim.	0.07727	0.07736	0.01651	0.02444	0.0175	0.01732
Lower Lim.	0.05771	0.05314	0.01394	0.02173	0.0138	0.01428

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 7/14/2021 12:39 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15	BY-AP-MW-16	BY-AP-MW-2	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-6
6/6/2017	0.0158	0.00982	0.00175 (J)	<0.005	<0.005	
6/7/2017						<0.005
1/22/2018	0.0173					
1/23/2018		0.0151				
1/24/2018			0.00158 (J)	<0.000203	<0.000203	<0.000203
5/1/2018	0.0181	0.0114	0.00166 (J)	<0.000203	<0.000203	
5/2/2018						<0.000203
11/27/2018	0.0158	0.0108	0.00144 (J)	<0.000203	<0.000203	
11/28/2018						<0.000203
5/29/2019	0.0148	0.0106	0.00132 (J)	<0.000203	<0.000203	<0.000203
10/1/2019	0.017	0.0138	0.0014 (J)	<0.000203	<0.000203	<0.000203
3/31/2020		0.012	0.00149 (J)	<0.000203	<0.000203	<0.000203
4/1/2020	0.0183					
8/31/2020			0.00176 (J)			
9/1/2020				<0.000203	<0.000203	
9/2/2020	0.0206	0.0137				<0.000203
5/11/2021	0.0184					
5/17/2021						0.000103 (J)
5/18/2021			0.00159	<0.000203	0.000125 (J)	
5/19/2021		0.0118				
Mean	0.01754	0.0124	0.00153	0.000203	0.0001933	0.0001905
Std. Dev.	0.001768	0.001615	0.0001447	0	2.758E-05	3.536E-05
Upper Lim.	0.01941	0.01411	0.001683	0.000203	0.000203	0.000203
Lower Lim.	0.01566	0.01069	0.001377	0.000203	0.000125	0.000103

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 7/14/2021 12:39 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7	BY-AP-MW-8	BY-AP-MW-9
6/7/2017	0.0203	0.0395	0.0423
1/23/2018			0.0435
1/24/2018	0.0214	0.0536	
5/2/2018	0.0218	0.0572	0.0437
11/27/2018		0.0536	
11/28/2018	0.0209		0.0422
5/29/2019	0.0178	0.0482	
5/30/2019			0.0349
9/30/2019	0.0217	0.0514	0.0391
3/30/2020	0.0215	0.0589	
3/31/2020			0.0393
9/2/2020	0.0234	0.0629	0.0432
5/11/2021		0.0659	
5/18/2021	0.0215		0.0435
Mean	0.02125	0.05646	0.04118
Std. Dev.	0.001572	0.005944	0.003152
Upper Lim.	0.02274	0.06276	0.0437
Lower Lim.	0.01973	0.05016	0.0349

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 7/14/2021 12:39 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-13	BY-AP-MW-14
6/6/2017	0.25					0.0585
6/7/2017		0.0632	0.0864	0.0682	0.0695	
1/22/2018					0.0688	
1/23/2018		0.0673	0.0868	0.0744		0.0608
1/24/2018	0.289					
5/1/2018	0.28					
5/2/2018		0.0752	0.0816	0.0814	0.0806	0.0614
11/27/2018						0.0589
11/28/2018	0.271	0.066	0.0796	0.0788	0.0697	
5/29/2019	0.29		0.0653	0.0769	0.0704	0.0617
5/30/2019		0.063				
9/30/2019		0.0669	0.0759			
10/1/2019	0.293			0.0795	0.0696	0.0605
3/30/2020	0.279					
3/31/2020		0.0727	0.0842	0.0851	0.0728	0.0619
9/1/2020	0.33	0.078	0.0923	0.0827	0.0722	
9/2/2020						0.0687
5/11/2021		0.0757				
5/18/2021	0.339			0.0902		
5/19/2021			0.112		0.0817	
5/25/2021						0.0745
Mean	0.2964	0.0706	0.08471	0.08113	0.07323	0.06355
Std. Dev.	0.02469	0.005475	0.01361	0.004955	0.005079	0.005287
Upper Lim.	0.339	0.0764	0.09914	0.08638	0.0817	0.0745
Lower Lim.	0.271	0.0648	0.07028	0.07587	0.0688	0.0589

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 7/14/2021 12:39 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15	BY-AP-MW-16	BY-AP-MW-2	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-6
6/6/2017	0.0437	0.07	0.0219	0.0275	0.0276	
6/7/2017						0.0256
1/22/2018	0.0501					
1/23/2018		0.0779				
1/24/2018			0.0229	0.0317	0.0293	0.0254
5/1/2018	0.0575	0.0877	0.0279	0.0356	0.0205	
5/2/2018						0.0276
11/27/2018	0.0557	0.0792	0.0249	0.0339	0.0321	
11/28/2018						0.0231
5/29/2019	0.0562	0.081	0.0232	0.037	0.0203	0.0244
10/1/2019	0.0628	0.0803	0.0241	0.0356	0.0207	0.0257
3/31/2020		0.091	0.0264	0.0393	0.0193	0.0244
4/1/2020	0.0697					
8/31/2020			0.0275			
9/1/2020				0.038	0.0131	
9/2/2020	0.0736	0.0954				0.0282
5/11/2021	0.0762					
5/17/2021						0.0305
5/18/2021			0.0259	0.0406	0.0225	
5/19/2021		0.102				
Mean	0.06273	0.08681	0.02535	0.03646	0.02223	0.02616
Std. Dev.	0.009465	0.008753	0.001887	0.002892	0.005958	0.002432
Upper Lim.	0.07276	0.09609	0.02735	0.03953	0.02854	0.02874
Lower Lim.	0.05269	0.07753	0.02335	0.0334	0.01591	0.02358

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 7/14/2021 12:39 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7	BY-AP-MW-8	BY-AP-MW-9
6/7/2017	0.054	0.128	0.111
1/23/2018			0.115
1/24/2018	0.0568	0.129	
5/2/2018	0.063	0.149	0.125
11/27/2018		0.143	
11/28/2018	0.0654		0.119
5/29/2019	0.059	0.138	
5/30/2019			0.112
9/30/2019	0.0648	0.138	0.117
3/30/2020	0.059	0.141	
3/31/2020			0.119
9/2/2020	0.0745	0.151	0.124
5/11/2021		0.147	
5/18/2021	0.07		0.125
Mean	0.06406	0.142	0.1195
Std. Dev.	0.005996	0.007151	0.00484
Upper Lim.	0.07042	0.1496	0.1246
Lower Lim.	0.05771	0.1344	0.1144

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 7/14/2021 12:39 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15	BY-AP-MW-16	BY-AP-MW-2	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-6
6/6/2017	<0.003	<0.003	<0.003	<0.003	<0.003	
6/7/2017						<0.003
1/22/2018	<0.001015					
1/23/2018		<0.001015				
1/24/2018			<0.001015	<0.001015	<0.001015	<0.001015
5/1/2018	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	
5/2/2018						<0.001015
11/27/2018	<0.001015	<0.001015	<0.001015	<0.001015	0.00071 (J)	
11/28/2018						<0.001015
5/29/2019	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
10/1/2019	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
3/31/2020		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
4/1/2020	<0.001015					
8/31/2020			<0.001015			
9/1/2020				<0.001015	<0.001015	
9/2/2020	<0.001015	<0.001015				<0.001015
5/11/2021	<0.001015					
5/17/2021						<0.001015
5/18/2021			<0.001015	<0.001015	<0.001015	
5/19/2021		<0.001015				
Mean	0.001015	0.001015	0.001015	0.001015	0.0009769	0.001015
Std. Dev.	0	0	0	0	0.0001078	0
Upper Lim.	0.001015	0.001015	0.001015	0.001015	0.001015	0.001015
Lower Lim.	0.001015	0.001015	0.001015	0.001015	0.00071	0.001015

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 7/14/2021 12:39 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7	BY-AP-MW-8	BY-AP-MW-9
6/7/2017	<0.003	<0.003	<0.003
1/23/2018			<0.001015
1/24/2018	<0.001015	<0.001015	
5/2/2018	<0.001015	<0.001015	<0.001015
11/27/2018		<0.001015	
11/28/2018	<0.001015		<0.001015
5/29/2019	<0.001015	<0.001015	
5/30/2019			<0.001015
9/30/2019	<0.001015	<0.001015	<0.001015
3/30/2020	<0.001015	<0.001015	
3/31/2020			<0.001015
9/2/2020	<0.001015	<0.001015	<0.001015
5/11/2021		<0.001015	
5/18/2021	<0.001015		<0.001015
Mean	0.001015	0.001015	0.001015
Std. Dev.	0	0	0
Upper Lim.	0.001015	0.001015	0.001015
Lower Lim.	0.001015	0.001015	0.001015

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 7/14/2021 12:39 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7	BY-AP-MW-8	BY-AP-MW-9
6/7/2017	<0.001	<0.001	<0.001
1/23/2018			<0.000203
1/24/2018	<0.000203	<0.000203	
5/2/2018	<0.000203	<0.000203	<0.000203
11/27/2018		<0.000203	
11/28/2018	<0.000203		<0.000203
5/29/2019	<0.000203	<0.000203	
5/30/2019			<0.000203
9/30/2019	<0.000203	<0.000203	<0.000203
3/30/2020	<0.000203	<0.000203	
3/31/2020			<0.000203
9/2/2020	<0.000203	<0.000203	<0.000203
5/11/2021		<0.000203	
5/18/2021	<0.000203		<0.000203
Mean	0.000203	0.000203	0.000203
Std. Dev.	0	0	0
Upper Lim.	0.000203	0.000203	0.000203
Lower Lim.	0.000203	0.000203	0.000203

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 7/14/2021 12:39 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-13	BY-AP-MW-14
6/6/2017	0.00295 (J)					0.00541 (J)
6/7/2017		<0.01	0.00233 (J)	0.00372 (J)	0.00752 (J)	
1/22/2018					0.00729 (J)	
1/23/2018		<0.01	0.00248 (J)	0.00605 (J)		0.00573 (J)
1/24/2018	0.00278 (J)					
5/1/2018	0.00435 (J)					
5/2/2018		<0.01	0.00273 (J)	0.00351 (J)	0.00642 (J)	0.00534 (J)
11/27/2018						0.00523 (J)
11/28/2018	0.0036 (J)	<0.01	0.0023 (J)	0.00353 (J)	0.0068 (J)	
5/29/2019	0.00223 (J)		0.00211 (J)	0.00333 (J)	0.00727 (J)	0.00455 (J)
5/30/2019		<0.01				
9/30/2019		<0.01	0.00228 (J)			
10/1/2019	0.00236 (J)			0.00325 (J)	0.00764 (J)	0.00508 (J)
3/30/2020	0.00415 (J)					
3/31/2020		<0.01	0.00358 (J)	0.0056 (J)	0.00955 (J)	0.00463 (J)
9/1/2020	0.00242 (J)	<0.01	0.00259 (J)	0.00332 (J)	0.00888 (J)	
9/2/2020						0.00482 (J)
5/11/2021		0.000685 (J)				
5/18/2021	0.00294			0.00377		
5/19/2021			0.00301		0.00692	
5/25/2021						0.00365
Mean	0.003104	0.008836	0.002635	0.004045	0.007596	0.004879
Std. Dev.	0.0008289	0.003293	0.0004755	0.001117	0.001079	0.0006307
Upper Lim.	0.003982	0.01	0.003139	0.00605	0.008739	0.005547
Lower Lim.	0.002225	0.000685	0.002131	0.00325	0.006453	0.00421

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 7/14/2021 12:39 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15	BY-AP-MW-16	BY-AP-MW-2	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-6
6/6/2017	<0.01	<0.01	<0.01	<0.01	<0.01	
6/7/2017						<0.01
1/22/2018	<0.01					
1/23/2018		0.00253 (J)				
1/24/2018			<0.01	<0.01	<0.01	<0.01
5/1/2018	<0.01	<0.01	<0.01	<0.01	<0.01	
5/2/2018						<0.01
11/27/2018	<0.01	<0.01	<0.01	<0.01	<0.01	
11/28/2018						<0.01
5/29/2019	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
10/1/2019	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
3/31/2020		<0.01	<0.01	<0.01	<0.01	<0.01
4/1/2020	<0.01					
8/31/2020			<0.01			
9/1/2020				<0.01	<0.01	
9/2/2020	<0.01	<0.01				<0.01
5/11/2021	0.000581 (J)					
5/17/2021						0.000313 (J)
5/18/2021			0.000394 (J)	0.000919 (J)	0.000544 (J)	
5/19/2021		0.00162				
Mean	0.008823	0.008019	0.008799	0.008865	0.008818	0.008789
Std. Dev.	0.00333	0.003677	0.003396	0.003211	0.003343	0.003425
Upper Lim.	0.01	0.01	0.01	0.01	0.01	0.01
Lower Lim.	0.000581	0.00162	0.000394	0.000919	0.000544	0.000313

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 7/14/2021 12:39 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7	BY-AP-MW-8	BY-AP-MW-9
6/7/2017	<0.01	<0.01	<0.01
1/23/2018			<0.01
1/24/2018	<0.01	<0.01	
5/2/2018	0.00328 (J)	<0.01	<0.01
11/27/2018		<0.01	
11/28/2018	<0.01		<0.01
5/29/2019	<0.01	<0.01	
5/30/2019			<0.01
9/30/2019	<0.01	<0.01	<0.01
3/30/2020	<0.01	<0.01	
3/31/2020			<0.01
9/2/2020	<0.01	<0.01	<0.01
5/11/2021		0.00156	
5/18/2021	0.00709		0.00078 (J)
Mean	0.008796	0.008945	0.008847
Std. Dev.	0.00245	0.002984	0.00326
Upper Lim.	0.01	0.01	0.01
Lower Lim.	0.00328	0.00156	0.00078

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 7/14/2021 12:39 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-13	BY-AP-MW-14
6/6/2017	<0.01					<0.01
6/7/2017		<0.01	<0.01	0.00262 (J)	<0.01	
1/22/2018					<0.005	
1/23/2018		<0.005	<0.005	0.00248 (J)		<0.005
1/24/2018	<0.005					
5/1/2018	<0.005					
5/2/2018		<0.005	<0.005	0.00271 (J)	<0.005	<0.005
11/27/2018						<0.005
11/28/2018	<0.005	<0.005	<0.005	0.00274 (J)	<0.005	
5/29/2019	<0.005		<0.005	0.00358 (J)	<0.005	<0.005
5/30/2019		<0.005				
9/30/2019		<0.005	<0.005			
10/1/2019	<0.005			0.00303 (J)	<0.005	<0.005
3/30/2020	<0.005					
3/31/2020		<0.005	<0.005	0.00364 (J)	<0.005	<0.005
9/1/2020	<0.005	<0.005	<0.005	0.0031 (J)	<0.005	
9/2/2020						<0.005
5/11/2021		0.000636				
5/18/2021	0.000996			0.00336		
5/19/2021			0.00257		0.00113	
5/25/2021						0.00124
Mean	0.004499	0.004454	0.004696	0.00308	0.004516	0.00453
Std. Dev.	0.001416	0.001543	0.0008591	0.0004238	0.001368	0.001329
Upper Lim.	0.005	0.005	0.005	0.003529	0.005	0.005
Lower Lim.	0.000996	0.000636	0.00257	0.002631	0.00113	0.00124

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 7/14/2021 12:39 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15	BY-AP-MW-16	BY-AP-MW-2	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-6
6/6/2017	0.0285	0.0172	0.00694 (J)	<0.01	0.00217 (J)	
6/7/2017						<0.01
1/22/2018	0.0273					
1/23/2018		0.00621 (J)				
1/24/2018			0.00592 (J)	<0.005	<0.005	<0.005
5/1/2018	0.0298	0.0189	0.00693 (J)	<0.005	0.0126 (o)	
5/2/2018						<0.005
11/27/2018	0.0311	0.0182	0.0066	<0.005	0.00363 (J)	
11/28/2018						<0.005
5/29/2019	0.0343	0.0206	0.00745	<0.005	0.00549	<0.005
10/1/2019	0.0336	0.0107	0.00696	<0.005	<0.005	<0.005
3/31/2020		0.0199	0.00716	<0.005	0.0205	<0.005
4/1/2020	0.0344					
8/31/2020			0.00751			
9/1/2020				<0.005	0.00657	
9/2/2020	0.0385	0.0192				<0.005
5/11/2021	0.0349					
5/17/2021						0.000678
5/18/2021			0.00746	0.000196 (J)	0.018	
5/19/2021		0.0182				
Mean	0.03299	0.01649	0.006999	0.004399	0.008295	0.00446
Std. Dev.	0.003468	0.005165	0.0005389	0.001698	0.006918	0.001528
Upper Lim.	0.03666	0.02038	0.00757	0.005	0.01362	0.005
Lower Lim.	0.02931	0.01378	0.006428	0.000196	0.00208	0.000678

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 7/14/2021 12:39 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7	BY-AP-MW-8	BY-AP-MW-9
6/7/2017	0.0173	<0.01	<0.01
1/23/2018			<0.005
1/24/2018	0.0158	<0.005	
5/2/2018	0.0169	<0.005	<0.005
11/27/2018		<0.005	
11/28/2018	0.0178		<0.005
5/29/2019	0.0197	<0.005	
5/30/2019			<0.005
9/30/2019	0.0186	<0.005	<0.005
3/30/2020	0.0172	<0.005	
3/31/2020			<0.005
9/2/2020	0.0197	<0.005	<0.005
5/11/2021		0.000778	
5/18/2021	0.0189		0.000725
Mean	0.01808	0.004472	0.004466
Std. Dev.	0.001396	0.001493	0.001511
Upper Lim.	0.01955	0.005	0.005
Lower Lim.	0.0166	0.000778	0.000725

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/14/2021 12:39 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-13	BY-AP-MW-14
6/6/2017	1.24					0.198 (U)
6/7/2017		0.254 (U)	1.04	0.705	0.752	
1/22/2018					0.898 (U)	
1/23/2018		0.795 (U)	1.17 (U)	1.1 (U)		0.294 (U)
1/24/2018	1.96 (U)					
5/1/2018	1.6					
5/2/2018		0.405	0.505	1.11	0.752	0.522
11/27/2018						0.576
11/28/2018	1.48	0.609	0.232 (U)	0.846	0.523	
5/29/2019	2.25		0.726	2.06	1.01	0.437 (U)
5/30/2019		0.0949 (U)				
9/30/2019		0.965	0.489 (U)			
10/1/2019	2.84			0.984	1.07	1.11
3/30/2020	2.31					
3/31/2020		1.14	0.462 (U)	1.26	0.725	0.941
5/11/2021		1.12 (U)				
5/18/2021	2.99			1.11		
5/19/2021			1.15		1.15	
5/25/2021						0.978 (U)
Mean	2.084	0.6729	0.7218	1.147	0.86	0.632
Std. Dev.	0.6322	0.3971	0.3574	0.4077	0.2095	0.338
Upper Lim.	2.754	1.094	1.101	1.55	1.082	0.9902
Lower Lim.	1.414	0.252	0.3429	0.759	0.6379	0.2738

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/14/2021 12:39 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15	BY-AP-MW-16	BY-AP-MW-2	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-6
6/6/2017	0.128 (U)	0.548	0.083 (U)	0.191 (U)	0.183 (U)	
6/7/2017						0.572
1/22/2018	0.768 (U)					
1/23/2018		0.98 (U)				
1/24/2018			0.404 (U)	0.543 (U)	0.622 (U)	1.09 (U)
5/1/2018	0.651	0.623	0.457	0.372 (U)	0.0917 (U)	
5/2/2018						0.187 (U)
11/27/2018	0.764	0.744	0.359 (U)	0.591	0.695	
11/28/2018						0.478 (U)
5/29/2019	0.433	2.51	1.18	2.31	0.947	-0.276 (U)
10/1/2019	0.988	0.443 (U)	0.284 (U)	1.52	0.7	0.742
3/31/2020		0.341 (U)	0.699	0.478 (U)	0.323 (U)	0.291 (U)
4/1/2020	0.527					
5/11/2021	0.684 (U)					
5/17/2021						1.84
5/18/2021			0.72 (U)	0.749 (U)	0.734 (U)	
5/19/2021		0.321 (U)				
Mean	0.6179	0.8138	0.5233	0.8443	0.537	0.6155
Std. Dev.	0.2588	0.7192	0.3375	0.7124	0.3012	0.6375
Upper Lim.	0.8922	1.308	0.881	1.515	0.8562	1.291
Lower Lim.	0.3436	0.3189	0.1655	0.2348	0.2177	-0.06023

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/14/2021 12:39 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7	BY-AP-MW-8	BY-AP-MW-9
6/7/2017	-0.231 (U)	0.408 (U)	0.758
1/23/2018			1.06 (U)
1/24/2018	0.691 (U)	0.706 (U)	
5/2/2018	0.535	0.572	0.983
11/27/2018		0.687	
11/28/2018	0.62		0.747
5/29/2019	0.244 (U)	0.627 (U)	
5/30/2019			1.08
9/30/2019	0.388 (U)	0.321 (U)	0.58
3/30/2020	0.744	0.6	
3/31/2020			0.82
5/11/2021		0.648 (U)	
5/18/2021	0.597 (U)		0.98 (U)
Mean	0.4485	0.5711	0.876
Std. Dev.	0.319	0.1366	0.1769
Upper Lim.	0.6993	0.7159	1.064
Lower Lim.	0.3021	0.4263	0.6885

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 7/14/2021 12:39 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-13	BY-AP-MW-14
6/6/2017	0.049 (J)					0.077 (J)
6/7/2017		0.04 (J)	0.06 (J)	0.06 (J)	0.07 (J)	
9/13/2017	<0.1 (U*)		<0.1 (U*)	<0.1 (U*)	<0.1 (U*)	<0.1 (U*)
9/14/2017		0.04 (J)				
1/22/2018					0.06 (J)	
1/23/2018		<0.1	0.06 (J)	0.05 (J)		0.08 (J)
1/24/2018	0.05 (J)					
5/1/2018	0.05 (J)					
5/2/2018		<0.1	0.06 (J)	0.06 (J)	0.07 (J)	0.08 (J)
11/27/2018						0.06 (J)
11/28/2018	<0.1	<0.1	0.05 (J)	0.04 (J)	0.05 (J)	
5/29/2019	0.0858 (J)		0.0759 (J)	0.0677 (J)	0.0679 (J)	0.0781 (J)
5/30/2019		0.0573 (J)				
9/30/2019		<0.1	0.0733 (J)			
10/1/2019	0.0744 (J)			0.0682 (J)	0.0703 (J)	0.0885 (J)
3/30/2020	0.0726 (J)					
3/31/2020		<0.1	0.078 (J)	0.0755 (J)	0.0665 (J)	0.0867 (J)
9/1/2020	0.194	0.0794 (J)	0.0841 (J)	0.0845 (J)	0.0757 (J)	
9/2/2020						0.0957 (J)
5/11/2021		0.105				
5/18/2021	0.0884 (J)			0.0614 (J)		
5/19/2021			0.0994 (J)		0.0748 (J)	
5/25/2021						0.0957 (J)
Mean	0.0894	0.09271	0.07259	0.06341	0.0669	0.08309
Std. Dev.	0.04579	0.01625	0.01567	0.01402	0.008413	0.01157
Upper Lim.	0.1315	0.105	0.0892	0.07827	0.07582	0.09535
Lower Lim.	0.04961	0.0573	0.05598	0.04855	0.05798	0.07082

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 7/14/2021 12:39 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15	BY-AP-MW-16	BY-AP-MW-2	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-6
6/6/2017	0.18	0.053 (J)	0.04 (J)	<0.1	<0.1	
6/7/2017						<0.1
9/12/2017			0.037 (J)	<0.1	<0.1	
9/13/2017	<0.1 (U*)	<0.1 (U*)				
9/14/2017						<0.1
1/22/2018	0.19					
1/23/2018		0.05 (J)				
1/24/2018			<0.1	<0.1	<0.1	<0.1
5/1/2018	0.19	0.05 (J)	<0.1	<0.1	<0.1	
5/2/2018						<0.1
11/27/2018	0.18	<0.1	<0.1	<0.1	<0.1	
11/28/2018						<0.1
5/29/2019	0.168	0.0683 (J)	<0.1	<0.1	<0.1	<0.1
10/1/2019	0.185	0.0774 (J)	<0.1	<0.1	<0.1	<0.1
3/31/2020		0.0602 (J)	<0.1	<0.1	<0.1	<0.1
4/1/2020	0.187					
8/31/2020			<0.1			
9/1/2020				<0.1	<0.1	
9/2/2020	0.18	<0.1				<0.1
5/11/2021	0.214					
5/17/2021						<0.1
5/18/2021			<0.1	<0.1	<0.1	
5/19/2021		0.0793 (J)				
Mean	0.1868	0.07315	0.1	0.1	0.1	0.1
Std. Dev.	0.01314	0.01986	0	0	0	0
Upper Lim.	0.2007	0.07673	0.1	0.1	0.1	0.1
Lower Lim.	0.1728	0.05167	0.1	0.1	0.1	0.1

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 7/14/2021 12:39 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7	BY-AP-MW-8	BY-AP-MW-9
6/7/2017	0.08 (J)	0.05 (J)	0.06 (J)
9/14/2017	0.07 (J)	0.05 (J)	0.07 (J)
1/23/2018			0.06 (J)
1/24/2018	0.09 (J)	0.04 (J)	
5/2/2018	0.08 (J)	0.04 (J)	0.05 (J)
11/27/2018		<0.1	
11/28/2018	0.07 (J)		0.04 (J)
5/29/2019	0.0937 (J)	0.0958 (J)	
5/30/2019			0.0763 (J)
9/30/2019	0.0925 (J)	0.0559 (J)	0.0679 (J)
3/30/2020	0.0933 (J)	0.0701 (J)	
3/31/2020			0.0655 (J)
9/2/2020	0.109	<0.1	0.0804 (J)
5/11/2021		0.094 (J)	
5/18/2021	0.11		0.0709 (J)
Mean	0.09231	0.07448	0.06388
Std. Dev.	0.01336	0.0264	0.01349
Upper Lim.	0.1065	0.1	0.07817
Lower Lim.	0.07815	0.04	0.04958

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 7/14/2021 12:39 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-13	BY-AP-MW-14
6/6/2017	<0.005					<0.005
6/7/2017		<0.005	<0.005	<0.005	<0.005	
1/22/2018					<0.000203	
1/23/2018		<0.000203	<0.000203	<0.000203		<0.000203
1/24/2018	<0.000203					
5/1/2018	<0.000203					
5/2/2018		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
11/27/2018						<0.000203
11/28/2018	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	
5/29/2019	<0.000203		<0.000203	<0.000203	<0.000203	<0.000203
5/30/2019		<0.000203				
9/30/2019		<0.000203	<0.000203			
10/1/2019	<0.000203			<0.000203	<0.000203	<0.000203
3/30/2020	<0.000203					
3/31/2020		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
9/1/2020	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	
9/2/2020						<0.000203
5/11/2021		<0.000203				
5/18/2021	<0.000203			0.000326		
5/19/2021			0.000102 (J)		<0.000203	
5/25/2021						7.64E-05 (J)
Mean	0.000203	0.000203	0.0001904	0.0002184	0.000203	0.0001872
Std. Dev.	0	0	3.571E-05	4.349E-05	0	4.476E-05
Upper Lim.	0.000203	0.000203	0.000203	0.000326	0.000203	0.000203
Lower Lim.	0.000203	0.000203	0.000102	0.000203	0.000203	7.64E-05

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 7/14/2021 12:39 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15	BY-AP-MW-16	BY-AP-MW-2	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-6
6/6/2017	<0.005	<0.005	<0.005	<0.005	<0.005	
6/7/2017						<0.005
1/22/2018	<0.000203					
1/23/2018		<0.000203				
1/24/2018			<0.000203	<0.000203	<0.000203	<0.000203
5/1/2018	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	
5/2/2018						<0.000203
11/27/2018	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	
11/28/2018						<0.000203
5/29/2019	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	0.00185 (J)
10/1/2019	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	0.00545
3/31/2020		<0.000203	<0.000203	<0.000203	<0.000203	0.00276 (J)
4/1/2020	<0.000203					
8/31/2020			<0.000203			
9/1/2020				<0.000203	<0.000203	
9/2/2020	<0.000203	<0.000203				0.00171 (J)
5/11/2021	<0.000203					
5/17/2021						0.00162
5/18/2021			<0.000203	<0.000203	0.00013 (J)	
5/19/2021		0.000191 (J)				
Mean	0.000203	0.0002015	0.000203	0.000203	0.0001939	0.00175
Std. Dev.	0	4.243E-06	0	0	2.581E-05	0.00177
Upper Lim.	0.000203	0.000203	0.000203	0.000203	0.000203	0.00336
Lower Lim.	0.000203	0.000191	0.000203	0.000203	0.00013	0.0002392

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 7/14/2021 12:39 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7	BY-AP-MW-8	BY-AP-MW-9
6/7/2017	<0.005	<0.005	<0.005
1/23/2018			<0.000203
1/24/2018	<0.000203	<0.000203	
5/2/2018	<0.000203	<0.000203	<0.000203
11/27/2018		<0.000203	
11/28/2018	<0.000203		<0.000203
5/29/2019	<0.000203	<0.000203	
5/30/2019			0.00108 (J)
9/30/2019	<0.000203	<0.000203	<0.000203
3/30/2020	<0.000203	<0.000203	
3/31/2020			<0.000203
9/2/2020	<0.000203	<0.000203	<0.000203
5/11/2021		<0.000203	
5/18/2021	<0.000203		<0.000203
Mean	0.000203	0.000203	0.0003126
Std. Dev.	0	0	0.0003101
Upper Lim.	0.000203	0.000203	0.00108
Lower Lim.	0.000203	0.000203	0.000203

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 7/14/2021 12:39 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-13	BY-AP-MW-14
6/6/2017	<0.05					<0.05
6/7/2017		<0.05	<0.05	<0.05	<0.05	
1/22/2018					<0.01999956	
1/23/2018		<0.01999956	<0.01999956	<0.01999956		<0.01999956
1/24/2018	<0.01999956					
5/1/2018	<0.01999956					
5/2/2018		<0.01999956	0.0384 (J)	<0.01999956	<0.01999956	<0.01999956
11/27/2018						<0.01999956
11/28/2018	<0.01999956	<0.01999956	0.0262	<0.01999956	<0.01999956	
5/29/2019	<0.01999956		0.0321	<0.01999956	<0.01999956	<0.01999956
5/30/2019		<0.01999956				
9/30/2019		<0.01999956	0.0228			
10/1/2019	<0.01999956			<0.01999956	<0.01999956	<0.01999956
3/30/2020	<0.01999956					
3/31/2020		<0.01999956	0.022	<0.01999956	<0.01999956	<0.01999956
9/1/2020	<0.01999956	<0.01999956	<0.01999956	<0.01999956	<0.01999956	
9/2/2020						<0.01999956
5/11/2021		<0.01999956				
5/18/2021	<0.01999956			<0.01999956		
5/19/2021			0.00754 (J)		<0.01999956	
5/25/2021						<0.01999956
Mean	0.02	0.02	0.02363	0.02	0.02	0.02
Std. Dev.	0	0	0.009142	0	0	0
Upper Lim.	0.02	0.02	0.03236	0.02	0.02	0.02
Lower Lim.	0.02	0.02	0.008671	0.02	0.02	0.02

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 7/14/2021 12:39 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15	BY-AP-MW-16	BY-AP-MW-2	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-6
6/6/2017	<0.05	<0.05	<0.05	<0.05	<0.05	
6/7/2017						<0.05
1/22/2018	<0.01999956					
1/23/2018		<0.01999956				
1/24/2018			<0.01999956	<0.01999956	<0.01999956	<0.01999956
5/1/2018	<0.01999956	<0.01999956	<0.01999956	<0.01999956	<0.01999956	
5/2/2018						<0.01999956
11/27/2018	0.0169 (J)	<0.01999956	<0.01999956	<0.01999956	<0.01999956	
11/28/2018						<0.01999956
5/29/2019	0.0254	<0.01999956	<0.01999956	<0.01999956	<0.01999956	<0.01999956
10/1/2019	0.0248	<0.01999956	<0.01999956	<0.01999956	<0.01999956	<0.01999956
3/31/2020		<0.01999956	<0.01999956	<0.01999956	<0.01999956	<0.01999956
4/1/2020	0.0174 (J)					
8/31/2020			<0.01999956			
9/1/2020				<0.01999956	<0.01999956	
9/2/2020	<0.01999956	<0.01999956				<0.01999956
5/11/2021	0.00788 (J)					
5/17/2021						<0.01999956
5/18/2021			<0.01999956	<0.01999956	<0.01999956	
5/19/2021		<0.01999956				
Mean	0.01905	0.02	0.02	0.02	0.02	0.02
Std. Dev.	0.005454	0	0	0	0	0
Upper Lim.	0.02329	0.02	0.02	0.02	0.02	0.02
Lower Lim.	0.01035	0.02	0.02	0.02	0.02	0.02

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 7/14/2021 12:39 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7	BY-AP-MW-8	BY-AP-MW-9
6/7/2017	<0.05	<0.05	<0.05
1/23/2018			<0.01999956
1/24/2018	<0.01999956	<0.01999956	
5/2/2018	0.0108 (J)	<0.01999956	<0.01999956
11/27/2018		<0.01999956	
11/28/2018	<0.01999956		<0.01999956
5/29/2019	<0.01999956	<0.01999956	
5/30/2019			<0.01999956
9/30/2019	<0.01999956	<0.01999956	<0.01999956
3/30/2020	0.0102 (J)	<0.01999956	
3/31/2020			<0.01999956
9/2/2020	<0.01999956	<0.01999956	<0.01999956
5/11/2021		<0.01999956	
5/18/2021	0.0882		<0.01999956
Mean	0.02615	0.02	0.02
Std. Dev.	0.02544	0	0
Upper Lim.	0.0882	0.02	0.02
Lower Lim.	0.0102	0.02	0.02

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 7/14/2021 12:39 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7	BY-AP-MW-8	BY-AP-MW-9
6/7/2017	<0.0005	<0.0005	<0.0005
1/23/2018			<0.0005
1/24/2018	<0.0005	<0.0005	
5/2/2018	<0.0005	<0.0005	<0.0005
11/27/2018		<0.0005	
11/28/2018	<0.0005		<0.0005
5/29/2019	<0.0005	<0.0005	
5/30/2019			<0.0005
9/30/2019	<0.0005	<0.0005	<0.0005
3/30/2020	<0.0005	<0.0005	
3/31/2020			<0.0005
9/2/2020	<0.0005	<0.0005	<0.0005
5/11/2021		<0.0005	
5/18/2021	<0.0005		<0.0005
Mean	0.0005	0.0005	0.0005
Std. Dev.	0	0	0
Upper Lim.	0.0005	0.0005	0.0005
Lower Lim.	0.0005	0.0005	0.0005

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 7/14/2021 12:39 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-13	BY-AP-MW-14
6/6/2017	<0.01					<0.01
6/7/2017		<0.01	<0.01	<0.01	<0.01	
1/22/2018					<0.000203	
1/23/2018		<0.000203	<0.000203	<0.000203		<0.000203
1/24/2018	<0.000203					
5/1/2018	<0.000203					
5/2/2018		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
11/27/2018						<0.000203
11/28/2018	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	
5/29/2019	<0.000203		<0.000203	<0.000203	<0.000203	<0.000203
5/30/2019		<0.000203				
9/30/2019		<0.000203	<0.000203			
10/1/2019	<0.000203			<0.000203	<0.000203	<0.000203
3/30/2020	<0.000203					
3/31/2020		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
9/1/2020	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	
9/2/2020						<0.000203
5/11/2021		<0.000203				
5/18/2021	0.000106 (J)			0.000947		
5/19/2021			0.00652		0.000437	
5/25/2021						0.000701
Mean	0.0001909	0.000203	0.0009926	0.000296	0.0002323	0.0002653
Std. Dev.	3.429E-05	0	0.002233	0.000263	8.273E-05	0.0001761
Upper Lim.	0.000203	0.000203	0.00652	0.000947	0.000437	0.000701
Lower Lim.	0.000106	0.000203	0.000203	0.000203	0.000203	0.000203

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 7/14/2021 12:39 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15	BY-AP-MW-16	BY-AP-MW-2	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-6
6/6/2017	<0.01	<0.01	<0.01	<0.01	<0.01	
6/7/2017						<0.01
1/22/2018	0.00211 (J)					
1/23/2018		<0.000203				
1/24/2018			<0.000203	<0.000203	<0.000203	<0.000203
5/1/2018	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	
5/2/2018						<0.000203
11/27/2018	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	
11/28/2018						<0.000203
5/29/2019	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
10/1/2019	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
3/31/2020		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
4/1/2020	<0.000203					
8/31/2020			<0.000203			
9/1/2020				<0.000203	<0.000203	
9/2/2020	0.00209 (J)	<0.000203				<0.000203
5/11/2021	0.00171					
5/17/2021						0.000117 (J)
5/18/2021			<0.000203	<0.000203	<0.000203	
5/19/2021		0.000136 (J)				
Mean	0.0008656	0.0001946	0.000203	0.000203	0.000203	0.0001923
Std. Dev.	0.0009224	2.369E-05	0	0	0	3.041E-05
Upper Lim.	0.00211	0.000203	0.000203	0.000203	0.000203	0.000203
Lower Lim.	0.000203	0.000136	0.000203	0.000203	0.000203	0.000117

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 7/14/2021 12:39 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7	BY-AP-MW-8	BY-AP-MW-9
6/7/2017	<0.01	<0.01	<0.01
1/23/2018			<0.000203
1/24/2018	<0.000203	<0.000203	
5/2/2018	<0.000203	<0.000203	<0.000203
11/27/2018		<0.000203	
11/28/2018	<0.000203		<0.000203
5/29/2019	<0.000203	<0.000203	
5/30/2019			<0.000203
9/30/2019	<0.000203	<0.000203	<0.000203
3/30/2020	<0.000203	<0.000203	
3/31/2020			<0.000203
9/2/2020	<0.000203	<0.000203	<0.000203
5/11/2021		0.000321	
5/18/2021	0.000214		0.00022
Mean	0.0002044	0.0002178	0.0002051
Std. Dev.	3.889E-06	4.172E-05	6.01E-06
Upper Lim.	0.000214	0.000321	0.00022
Lower Lim.	0.000203	0.000203	0.000203

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 7/14/2021 12:39 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7	BY-AP-MW-8	BY-AP-MW-9
6/7/2017	<0.01	<0.01	<0.01
1/23/2018			<0.001015
1/24/2018	<0.001015	<0.001015	
5/2/2018	<0.001015	<0.001015	<0.001015
11/27/2018		<0.001015	
11/28/2018	<0.001015		<0.001015
5/29/2019	<0.001015	<0.001015	
5/30/2019			<0.001015
9/30/2019	<0.001015	<0.001015	<0.001015
3/30/2020	<0.001015	<0.001015	
3/31/2020			<0.001015
9/2/2020	<0.001015	<0.001015	<0.001015
5/11/2021		<0.001015	
5/18/2021	<0.001015		<0.001015
Mean	0.001015	0.001015	0.001015
Std. Dev.	0	0	0
Upper Lim.	0.001015	0.001015	0.001015
Lower Lim.	0.001015	0.001015	0.001015

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 7/14/2021 12:39 PM View: AIV

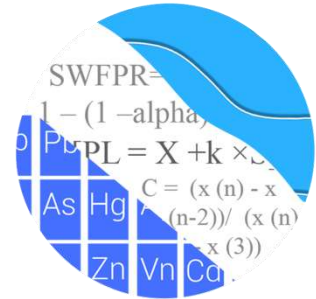
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7	BY-AP-MW-8	BY-AP-MW-9
6/7/2017	<0.001	<0.001	<0.001
1/23/2018			<0.000203
1/24/2018	<0.000203	<0.000203	
5/2/2018	<0.000203	<0.000203	<0.000203
11/27/2018		<0.000203	
11/28/2018	<0.000203		<0.000203
5/29/2019	<0.000203	<0.000203	
5/30/2019			<0.000203
9/30/2019	<0.000203	<0.000203	<0.000203
3/30/2020	<0.000203	<0.000203	
3/31/2020			<0.000203
9/2/2020	<0.000203	<0.000203	<0.000203
5/11/2021		<0.000203	
5/18/2021	<0.000203		<0.000203
Mean	0.000203	0.000203	0.000203
Std. Dev.	0	0	0
Upper Lim.	0.000203	0.000203	0.000203
Lower Lim.	0.000203	0.000203	0.000203

GROUNDWATER STATS CONSULTING

December 11, 2020

Southern Company Services
Attn: Mr. Greg Dyer
3535 Colonnade Parkway
Birmingham, AL 35243



Re: Plant Barry Ash Pond
2nd Semi-Annual Statistical Analysis – September 2020 Sampling Event

Dear Mr. Dyer,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the statistical analysis of groundwater data for the 2nd Semi-Annual September 2020 semi-annual sample event for Alabama Power Company's Plant Barry Ash Pond. 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 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:** BY-GSA-MW-1, BY-GSA-MW-2, BY-GSA-MW-3, and BY-GSA-MW-4
- **Downgradient wells:** BY-AP-MW-1, BY-AP-MW-2, BY-AP-MW-3, BY-AP-MW-4, BY-AP-MW-5, BY-AP-MW-6, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-9, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15, and BY-AP-MW-16
- **Delineation wells:** BY-AP-MW-1V, BY-AP-MW-5V, BY-AP-MW-7V, BY-AP-MW-8V, BY-AP-MW-10V, BY-AP-MW-12V, BY-AP-MW-13V, BY-AP-MW-14V, BY-AP-MW-15V, BY-AP-MW-16V, BY-AP-MW-17V, BY-AP-MW-17H, BY-AP-MW-18H, BY-AP-MW-19H, BY-AP-MW-20H, BY-AP-MW-20V, BY-AP-MW-22H, BY-AP-MW-23V, BY-AP-MW-23H, BY-AP-MW-24H, BY-AP-MW-25H, and BY-AP-MW-25VM
- **Piezometer:** BY-AP-MW-15VM

Data from delineation wells are included on time series and box plots but did not require formal statistics. Piezometer BY-AP-MW-15VM only monitors water levels, and therefore, is not included in this analysis.

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 Dr. Jim Loftis, Civil & Environmental Engineering professor emeritus at Colorado State University and Senior Advisor to 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 well/constituent pairs with 100% nondetects follows this letter.

For all constituents, a substitution of the most recent reporting limit is used for nondetect 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. For calculating prediction limits, the substitution is performed for individual wells and may differ across wells. This generally gives the most conservative limit in each case.

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 provides 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 data 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 and site/data characteristics:

- Semi-Annual Sampling
- Intrawell Prediction Limits with 1-of-2 resample plan
- Interwell Prediction Limits with 1-of-2 resample plan
- # Background Samples (Intrawell): 11
- # Background Samples (Interwell): 59
- # Constituents: 7
- # Downgradient wells: 16

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 and sulfate
- 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 nondetects, a nonparametric test is utilized. While the annual false positive rate associated with parametric limits is fixed at 10% 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. Nondetects are handled as follows:

- No statistical analyses are required on wells and analytes containing 100% nondetects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% nondetects in background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit

utilized for nondetects is the practical quantification limit (PQL) as reported by the laboratory.

- When data contain between 15-50% nondetects, the Kaplan-Meier nondetect 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% nondetects.

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.

Appendix III Background Screening Summary – April 2020

Background data for Appendix III parameters were screened for outliers using Tukey's test for outliers and/or visual screening, and identified outliers were flagged with "o" in the database and shown in a lighter font on the time series graphs and data pages. A list of flagged outliers is included with this report (Appendix C). Flagged values are excluded from background in the calculation of statistical limits in order to better represent background conditions and to produce limits that are conservative from a regulatory perspective. No seasonal patterns were visually apparent on any of the time series plots, and no seasonal adjustments were made.

The Sen's Slope/Mann Kendall trend test was used to evaluate all data at each well to identify statistically significant increasing or decreasing trends. In the absence of suspected contamination, significant trending data are typically not included in the background used for construction of prediction limits. This step serves to reduce variation in background and better represent current background conditions. The results of the trend analyses showed several statistically significant increasing and decreasing trends.

However, the background time period is short, and all trends noted were relatively low in magnitude when compared to average concentrations; therefore, no adjustments were made to any of the records. Detailed trend test results were included with the April 2020 screening report.

Selection of appropriate statistical methods for detecting changes in Appendix III parameter concentrations in downgradient wells is based upon two criteria. The first is spatial variation in concentrations among upgradient wells. The second is statistical comparison of average concentrations in downgradient wells to expected upper limits of corresponding concentrations in upgradient wells.

Analysis of Variance (ANOVA) was used to evaluate spatial variation in groundwater quality among upgradient wells. For the downgradient/upgradient comparison, upper tolerance limits on pooled upgradient well data for each constituent were used in conjunction with confidence intervals for each downgradient well/constituent. When parametric limits are used, the upper tolerance limit includes 95% of the pooled upgradient "population" with 99% confidence; and the confidence interval includes the mean of each downgradient well/constituent with 99% confidence. When nonparametric limits are used, the confidence levels and coverage depend upon the background sample size. When the entire confidence interval for at least one downgradient well/constituent exceeds the upper tolerance limit, interwell methods are initially recommended for that constituent.

Based on the results of the ANOVA and tolerance limit/confidence interval analyses, intrawell limits were recommended for sulfate, and interwell methods were recommended for boron, calcium, chloride, fluoride, pH and TDS. However, as shown on the boxplots, the upgradient levels for pH are very low (acid) and are not representative of downgradient water quality. Therefore, intrawell limits were recommended for pH as well—unless or until a future study confirms that those low levels are representative of unimpacted downgradient conditions.

Evaluation of Appendix III Parameters – September 2020

For Appendix III parameters that are analyzed using interwell limits, background (upgradient) well data through September 2020 were re-assessed for potential outliers during this analysis. No new values were flagged. Appendix III parameters analyzed using intrawell prediction limits use background data through May 2019. Those data were screened in the April 2020 analysis summarized above. A list of flagged outliers follows this report (Figure C). As stated earlier, flagged outliers are excluded from calculation of prediction limits.

Interwell prediction limits combined with a 1-of-2 verification strategy were constructed for boron, calcium, chloride, fluoride, and TDS (Figure D). Interwell prediction limits pool upgradient well data through the most recent sampling event to establish a background limit for an individual constituent. The most recent sample from each downgradient well is compared to the background limit to determine whether there are statistically significant increases (SSIs).

Intrawell prediction limits combined with a 1-of-2 verification strategy were constructed for pH and sulfate (Figure E). Intrawell limits are constructed from background data from within each well that are screened over the background time period and updated periodically with newer data and further screening. The most recent sample for each well/constituent pair is compared to its respective background limit. This statistical method removes the element of variation from across wells and eliminates the chance of mistaking natural spatial variation for an impact of the facility. Background data will be re-evaluated when a minimum of 4 compliance samples are available.

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 prediction limits may be found in Figure D (interwell) and Figure E (intrawell) following this letter. Exceedances for both interwell and intrawell prediction limits were identified for the following well/constituent pairs:

Interwell:

- Boron: BY-AP-MW-1, BY-AP-MW-8, BY-AP-MW-9, BY-APMW-10, and BY-AP-MW-16
- Calcium: BY-AP-MW-1, BY-AP-MW-2, BY-AP-MW-5, BY-APMW-7, BY-AP-MW-8, BY-AP-MW-9, BY-AP-MW-10, BY-AP-MW-11, BY-APMW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15, and BY-AP-MW-16
- Chloride: BY-AP-MW-1, BY-AP-MW-5, BY-AP-MW-7, BY-APMW-8, BY-AP-MW-9, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-APMW-13, BY-AP-MW-14, BY-AP-MW-15, and BY-AP-MW-16
- Fluoride: BY-AP-MW-1, BY-AP-MW-7, and BY-AP-MW-15

- TDS: BY-AP-MW-1, BY-AP-MW-5, BY-AP-MW-7, BY-APMW-8, BY-AP-MW-9, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-APMW-13, BY-AP-MW-14, BY-AP-MW-15, and BY-AP-MW-16

Intrawell:

- pH: BY-AP-MW-3, BY-AP-MW-8, BY-AP-MW-9, BY-APMW-11, BY-AP-MW-13, BY-AP-MW-14, and BY-AP-MW-16
- Sulfate: BY-AP-MW-1, BY-AP-MW-5, BY-AP-MW-8, BY-APMW-9, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-15, and BY-AP-MW-16

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. Upgradient trends are an indication of natural variability in groundwater quality unrelated to practices at the site. A summary of the trend test results follows this letter. Statistically significant trends were identified for the following well/constituent pairs:

Increasing:

- Boron: BY-AP-MW-10
- Calcium: BY-GSA-MW-2 (upgradient), BY-GSA-MW-4 (upgradient), BY-AP-MW-7, BY-AP-MW-10, BY-AP-MW-12, and BY-AP-MW-15
- Chloride: BY-AP-MW-10, BY-AP-MW-14, BY-AP-MW-15, and BY-AP-MW-16
- Sulfate: BY-AP-MW-1 and BY-AP-MW-11
- TDS: BY-GSA-MW-1 (upgradient), BY-GSA-MW-2 (upgradient), BY-GSA-MW-4 (upgradient), and BY-AP-MW-15

Decreasing:

- Boron: BY-AP-MW-8
- Calcium: BY-AP-MW-8 and BY-AP-MW-11
- Chloride: BY-GSA-MW-2 (upgradient)
- pH: BY-GSA-MW-1 (upgradient), BY-GSA-MW-2 (upgradient), BY-AP-MW-8, and BY-AP-MW-13

Evaluation of Appendix IV Parameters – September 2020

Data from all wells for Appendix IV parameters are reassessed for outliers during each analysis, and no new outliers were flagged. A summary of flagged outliers follows this report (Figure C).

In accordance with Alabama Department of Environmental Management, the Groundwater Protection Standards (GWPS) utilized during the 2019 2nd semi-annual report were used in the confidence interval analysis for this 2020 2nd semi-annual report. The GWPS will be updated during the 2021 2nd semi-annual statistical analysis. The methodology used to create these GWPS is described below.

First, background limits were determined using tolerance limits constructed from pooled upgradient well data. The tolerance limits contain a known fraction (coverage) of the background population with a known level of confidence. When data followed a normal or transformed-normal distribution, parametric tolerance limits were used to calculate background limits for Appendix IV parameters using pooled upgradient well data through October 2019 with a target of 95% confidence and 95% coverage (Figure F).

Nonparametric tolerance limits, which use the highest value in background as the statistical limit, were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% nondetects. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples. 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 G) in the confidence interval comparisons described below. Note that none of the parametric tolerance limits resulted in higher limits than the established MCLs or CCR-Rule Specified Limits. In future UTL calculations, nonparametric tolerance limits will be used exclusively, as requested by ADEM, to eliminate the effect of variation among upgradient wells.

Confidence intervals were then constructed on downgradient wells using a maximum of the most recent 8 samples through September 2020 for each of the Appendix IV parameters. These intervals were constructed as either parametric or nonparametric confidence intervals depending on the data distribution and percentage of nondetects. As mentioned above, well/constituent pairs with 100% nondetects did not require statistics and were, therefore, excluded from construction of confidence intervals. A list of 100% nondetect well/constituent pairs follows this report. The decision logic, with respect to the use of a parametric or nonparametric confidence intervals, is similar to that used to construct tolerance limits as discussed above. 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.

Exceedances were identified for the following well/constituent pairs:

- Arsenic: BY-AP-MW-1, BY-AP-MW-5, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-9, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15, and BY-AP-MW-16
- Cobalt: BY-AP-MW-7 and BY-AP-MW-15

A summary table of these exceedances, followed by complete tabular and graphical comparisons of confidence intervals against GWPS for each Appendix IV constituent, is included in Figure I.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Barry Ash Pond. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,

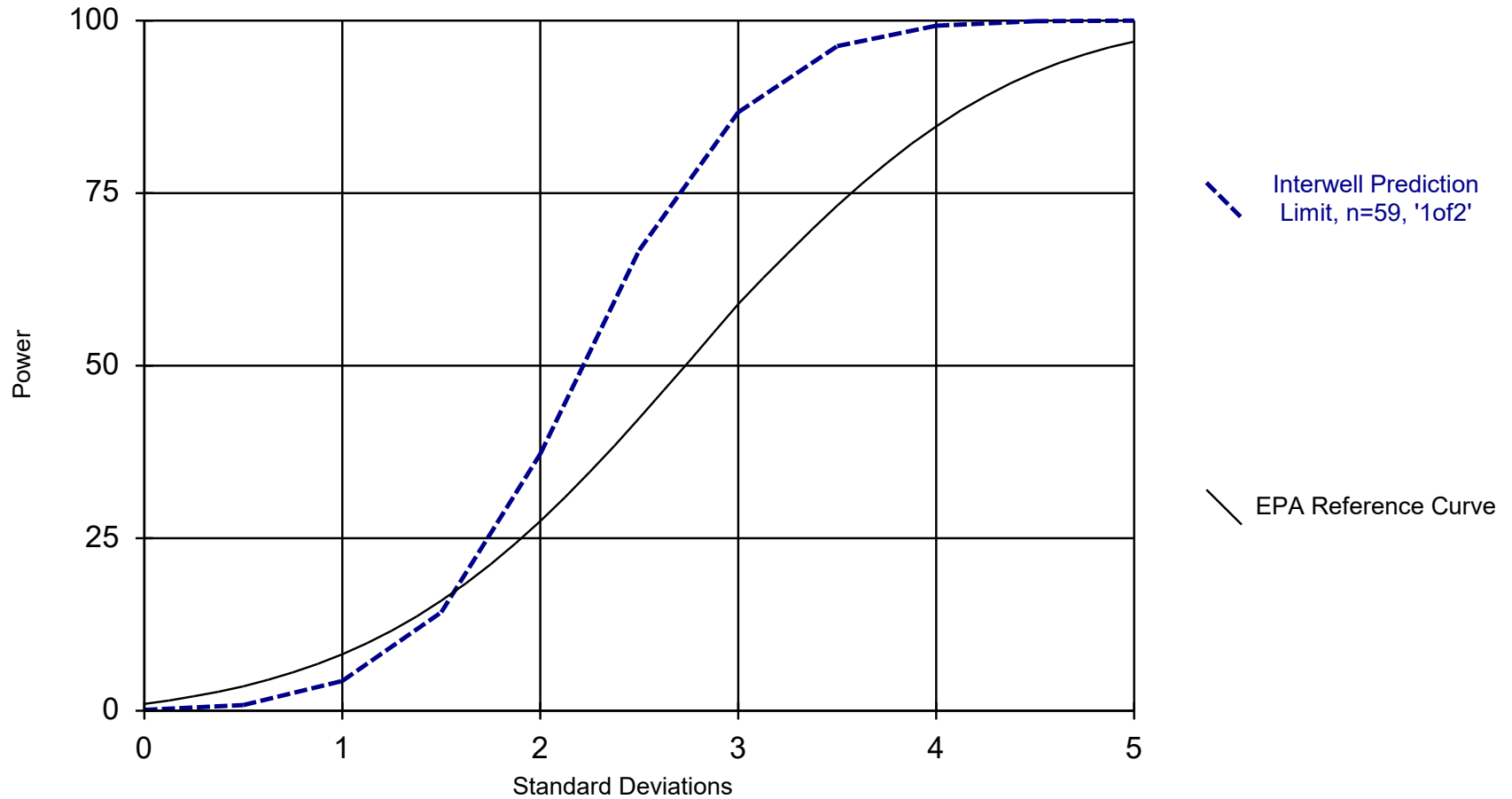


Andrew Collins
Project Manager



Kristina Rayner
Groundwater Statistician

Interwell Power Curve

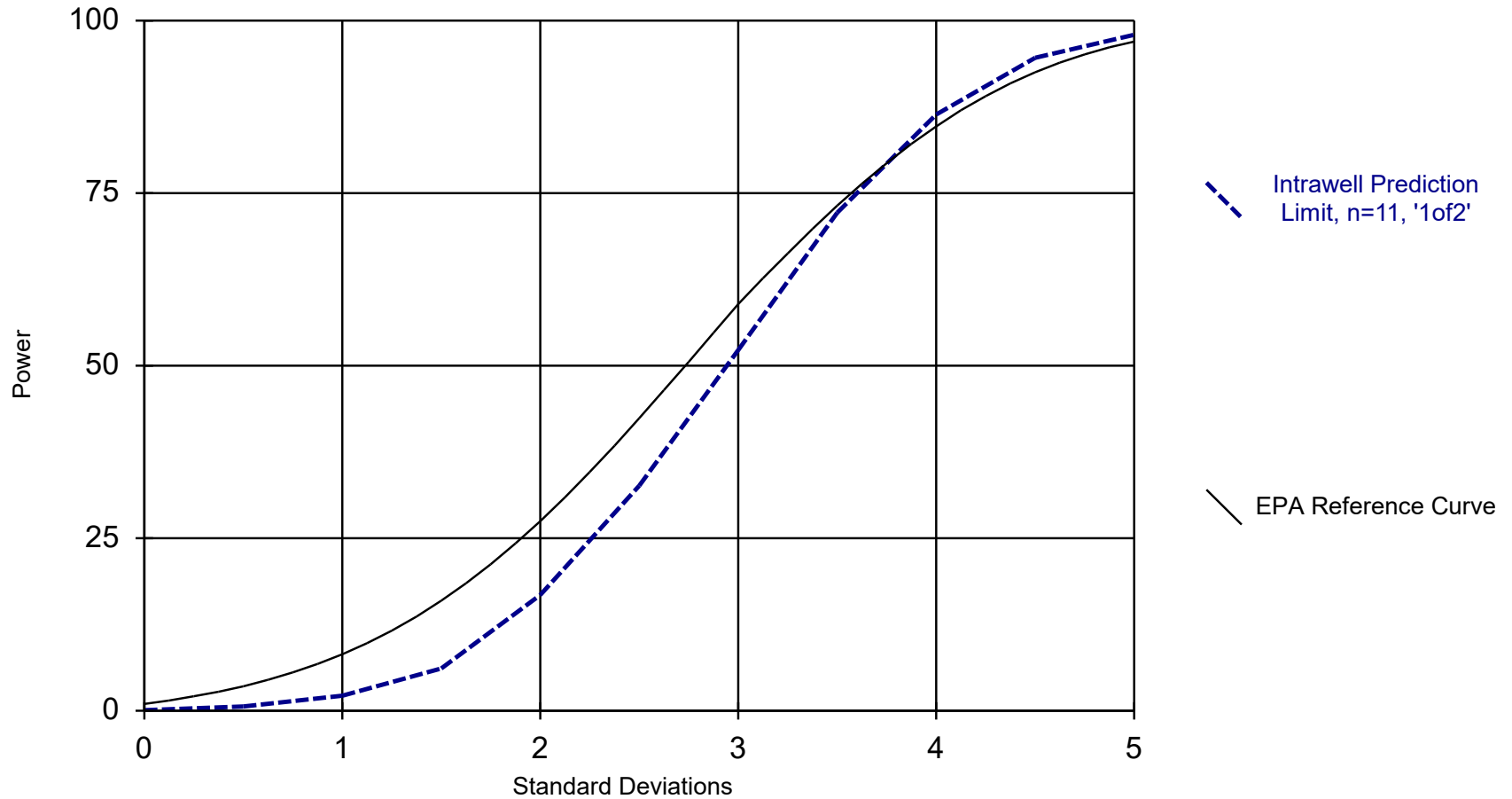


Kappa = 2.131, based on 16 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

Analysis Run 12/9/2020 11:44 AM

Plant Barry Client: Southern Company Data: Barry Ash Pond

Intrawell Power Curve



Kappa = 2.915, based on 16 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

Analysis Run 12/9/2020 11:44 AM

Plant Barry Client: Southern Company Data: Barry Ash Pond

100% Non-Detects

Analysis Run 12/8/2020 5:16 PM View: Appendix IV - Confidence Intervals
Plant Barry Client: Southern Company Data: Barry Ash Pond

Arsenic (mg/L)

BY-AP-MW-3, BY-AP-MW-4

Beryllium (mg/L)

BY-AP-MW-1, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-14, BY-AP-MW-15, BY-AP-MW-16, BY-AP-MW-2, BY-AP-MW-3, BY-AP-MW-5, BY-AP-MW-6, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-9

Cadmium (mg/L)

BY-AP-MW-1, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-14, BY-AP-MW-15, BY-AP-MW-16, BY-AP-MW-2, BY-AP-MW-3, BY-AP-MW-4, BY-AP-MW-5, BY-AP-MW-6, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-9

Chromium (mg/L)

BY-AP-MW-10, BY-AP-MW-15, BY-AP-MW-2, BY-AP-MW-3, BY-AP-MW-4, BY-AP-MW-5, BY-AP-MW-6, BY-AP-MW-8, BY-AP-MW-9

Cobalt (mg/L)

BY-AP-MW-1, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-3, BY-AP-MW-5, BY-AP-MW-6, BY-AP-MW-8, BY-AP-MW-9

Lead (mg/L)

BY-AP-MW-1, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15, BY-AP-MW-16, BY-AP-MW-2, BY-AP-MW-3, BY-AP-MW-4, BY-AP-MW-5, BY-AP-MW-7, BY-AP-MW-8

Lithium (mg/L)

BY-AP-MW-1, BY-AP-MW-10, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-16, BY-AP-MW-2, BY-AP-MW-3, BY-AP-MW-4, BY-AP-MW-5, BY-AP-MW-6, BY-AP-MW-8, BY-AP-MW-9

Mercury (mg/L)

BY-AP-MW-1, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15, BY-AP-MW-16, BY-AP-MW-2, BY-AP-MW-3, BY-AP-MW-4, BY-AP-MW-5, BY-AP-MW-6, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-9

Molybdenum (mg/L)

BY-AP-MW-1, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-16, BY-AP-MW-2, BY-AP-MW-3, BY-AP-MW-4, BY-AP-MW-5, BY-AP-MW-6, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-9

Selenium (mg/L)

BY-AP-MW-1, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15, BY-AP-MW-16, BY-AP-MW-2, BY-AP-MW-3, BY-AP-MW-4, BY-AP-MW-5, BY-AP-MW-6, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-9

Thallium (mg/L)

BY-AP-MW-1, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-14, BY-AP-MW-15, BY-AP-MW-16, BY-AP-MW-2, BY-AP-MW-3, BY-AP-MW-4, BY-AP-MW-5, BY-AP-MW-6, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-9

Appendix III - Interwell Prediction Limits - Significant Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 12/8/2020, 4:52 PM

Constituent	Well	Upper Lim	Lower Lim	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	BY-AP-MW-1	0.188	n/a	9/1/2020	2.11	Yes	59	n/a	n/a	81.36	n/a	n/a	0.0005305	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-10	0.188	n/a	9/1/2020	2.02	Yes	59	n/a	n/a	81.36	n/a	n/a	0.0005305	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-16	0.188	n/a	9/2/2020	1.9	Yes	59	n/a	n/a	81.36	n/a	n/a	0.0005305	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-8	0.188	n/a	9/2/2020	1.26	Yes	59	n/a	n/a	81.36	n/a	n/a	0.0005305	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-9	0.188	n/a	9/2/2020	2.05	Yes	59	n/a	n/a	81.36	n/a	n/a	0.0005305	NP Inter (NDs) 1 of 2
Calcium (mg/L)	BY-AP-MW-1	2.063	n/a	9/1/2020	40.5	Yes	60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2
Calcium (mg/L)	BY-AP-MW-10	2.063	n/a	9/1/2020	57.2	Yes	60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2
Calcium (mg/L)	BY-AP-MW-11	2.063	n/a	9/1/2020	23.9	Yes	60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2
Calcium (mg/L)	BY-AP-MW-12	2.063	n/a	9/1/2020	22.2	Yes	60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2
Calcium (mg/L)	BY-AP-MW-13	2.063	n/a	9/1/2020	12.3	Yes	60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2
Calcium (mg/L)	BY-AP-MW-14	2.063	n/a	9/2/2020	10.8	Yes	60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2
Calcium (mg/L)	BY-AP-MW-15	2.063	n/a	9/2/2020	7.04	Yes	60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2
Calcium (mg/L)	BY-AP-MW-16	2.063	n/a	9/2/2020	13.1	Yes	60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2
Calcium (mg/L)	BY-AP-MW-2	2.063	n/a	8/31/2020	3	Yes	60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2
Calcium (mg/L)	BY-AP-MW-5	2.063	n/a	9/1/2020	13.6	Yes	60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2
Calcium (mg/L)	BY-AP-MW-7	2.063	n/a	9/2/2020	10.4	Yes	60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2
Calcium (mg/L)	BY-AP-MW-8	2.063	n/a	9/2/2020	31.5	Yes	60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2
Calcium (mg/L)	BY-AP-MW-9	2.063	n/a	9/2/2020	38	Yes	60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2
Chloride (mg/L)	BY-AP-MW-1	9.9	n/a	9/1/2020	25.7	Yes	60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
Chloride (mg/L)	BY-AP-MW-10	9.9	n/a	9/1/2020	25	Yes	60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
Chloride (mg/L)	BY-AP-MW-11	9.9	n/a	9/1/2020	23.2	Yes	60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
Chloride (mg/L)	BY-AP-MW-12	9.9	n/a	9/1/2020	23.4	Yes	60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
Chloride (mg/L)	BY-AP-MW-13	9.9	n/a	9/1/2020	39.1	Yes	60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
Chloride (mg/L)	BY-AP-MW-14	9.9	n/a	9/2/2020	47.2	Yes	60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
Chloride (mg/L)	BY-AP-MW-15	9.9	n/a	9/2/2020	47	Yes	60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
Chloride (mg/L)	BY-AP-MW-16	9.9	n/a	9/2/2020	20.8	Yes	60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
Chloride (mg/L)	BY-AP-MW-5	9.9	n/a	9/1/2020	19.1	Yes	60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
Chloride (mg/L)	BY-AP-MW-7	9.9	n/a	9/2/2020	12.9	Yes	60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
Chloride (mg/L)	BY-AP-MW-8	9.9	n/a	9/2/2020	22.2	Yes	60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
Chloride (mg/L)	BY-AP-MW-9	9.9	n/a	9/2/2020	18.5	Yes	60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BY-AP-MW-1	0.1	n/a	9/1/2020	0.194	Yes	64	n/a	n/a	46.88	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BY-AP-MW-15	0.1	n/a	9/2/2020	0.18	Yes	64	n/a	n/a	46.88	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BY-AP-MW-7	0.1	n/a	9/2/2020	0.109	Yes	64	n/a	n/a	46.88	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-1	58	n/a	9/1/2020	454	Yes	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-10	58	n/a	9/1/2020	392	Yes	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-11	58	n/a	9/1/2020	399	Yes	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-12	58	n/a	9/1/2020	356	Yes	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-13	58	n/a	9/1/2020	285	Yes	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-14	58	n/a	9/2/2020	327	Yes	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-15	58	n/a	9/2/2020	208	Yes	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-16	58	n/a	9/2/2020	279	Yes	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-5	58	n/a	9/1/2020	253	Yes	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-7	58	n/a	9/2/2020	129	Yes	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-8	58	n/a	9/2/2020	298	Yes	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-9	58	n/a	9/2/2020	301	Yes	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2

Appendix III - Interwell Prediction Limits - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 12/8/2020, 4:52 PM

Constituent	Well	Upper Lim	Lower Lim	Date	Obsrv.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	BY-AP-MW-1	0.188	n/a	9/1/2020	2.11	Yes 59	n/a	n/a	n/a	81.36	n/a	n/a	0.0005305	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-10	0.188	n/a	9/1/2020	2.02	Yes 59	n/a	n/a	n/a	81.36	n/a	n/a	0.0005305	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-11	0.188	n/a	9/1/2020	0.104	No 59	n/a	n/a	n/a	81.36	n/a	n/a	0.0005305	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-12	0.188	n/a	9/1/2020	0.115	No 59	n/a	n/a	n/a	81.36	n/a	n/a	0.0005305	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-13	0.188	n/a	9/1/2020	0.0642J	No 59	n/a	n/a	n/a	81.36	n/a	n/a	0.0005305	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-14	0.188	n/a	9/2/2020	0.0789J	No 59	n/a	n/a	n/a	81.36	n/a	n/a	0.0005305	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-15	0.188	n/a	9/2/2020	0.148	No 59	n/a	n/a	n/a	81.36	n/a	n/a	0.0005305	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-16	0.188	n/a	9/2/2020	1.9	Yes 59	n/a	n/a	n/a	81.36	n/a	n/a	0.0005305	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-2	0.188	n/a	8/31/2020	0.1ND	No 59	n/a	n/a	n/a	81.36	n/a	n/a	0.0005305	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-3	0.188	n/a	9/1/2020	0.1ND	No 59	n/a	n/a	n/a	81.36	n/a	n/a	0.0005305	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-4	0.188	n/a	9/1/2020	0.1ND	No 59	n/a	n/a	n/a	81.36	n/a	n/a	0.0005305	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-5	0.188	n/a	9/1/2020	0.115	No 59	n/a	n/a	n/a	81.36	n/a	n/a	0.0005305	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-6	0.188	n/a	9/2/2020	0.1ND	No 59	n/a	n/a	n/a	81.36	n/a	n/a	0.0005305	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-7	0.188	n/a	9/2/2020	0.042J	No 59	n/a	n/a	n/a	81.36	n/a	n/a	0.0005305	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-8	0.188	n/a	9/2/2020	1.26	Yes 59	n/a	n/a	n/a	81.36	n/a	n/a	0.0005305	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-9	0.188	n/a	9/2/2020	2.05	Yes 59	n/a	n/a	n/a	81.36	n/a	n/a	0.0005305	NP Inter (NDs) 1 of 2
Calcium (mg/L)	BY-AP-MW-1	2.063	n/a	9/1/2020	40.5	Yes 60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2	
Calcium (mg/L)	BY-AP-MW-10	2.063	n/a	9/1/2020	57.2	Yes 60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2	
Calcium (mg/L)	BY-AP-MW-11	2.063	n/a	9/1/2020	23.9	Yes 60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2	
Calcium (mg/L)	BY-AP-MW-12	2.063	n/a	9/1/2020	22.2	Yes 60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2	
Calcium (mg/L)	BY-AP-MW-13	2.063	n/a	9/1/2020	12.3	Yes 60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2	
Calcium (mg/L)	BY-AP-MW-14	2.063	n/a	9/2/2020	10.8	Yes 60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2	
Calcium (mg/L)	BY-AP-MW-15	2.063	n/a	9/2/2020	7.04	Yes 60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2	
Calcium (mg/L)	BY-AP-MW-16	2.063	n/a	9/2/2020	13.1	Yes 60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2	
Calcium (mg/L)	BY-AP-MW-2	2.063	n/a	8/31/2020	3	Yes 60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2	
Calcium (mg/L)	BY-AP-MW-3	2.063	n/a	9/1/2020	1.08	No 60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2	
Calcium (mg/L)	BY-AP-MW-4	2.063	n/a	9/1/2020	0.566	No 60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2	
Calcium (mg/L)	BY-AP-MW-5	2.063	n/a	9/1/2020	13.6	Yes 60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2	
Calcium (mg/L)	BY-AP-MW-6	2.063	n/a	9/2/2020	1.8	No 60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2	
Calcium (mg/L)	BY-AP-MW-7	2.063	n/a	9/2/2020	10.4	Yes 60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2	
Calcium (mg/L)	BY-AP-MW-8	2.063	n/a	9/2/2020	31.5	Yes 60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2	
Calcium (mg/L)	BY-AP-MW-9	2.063	n/a	9/2/2020	38	Yes 60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2	
Chloride (mg/L)	BY-AP-MW-1	9.9	n/a	9/1/2020	25.7	Yes 60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2	
Chloride (mg/L)	BY-AP-MW-10	9.9	n/a	9/1/2020	25	Yes 60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2	
Chloride (mg/L)	BY-AP-MW-11	9.9	n/a	9/1/2020	23.2	Yes 60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2	
Chloride (mg/L)	BY-AP-MW-12	9.9	n/a	9/1/2020	23.4	Yes 60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2	
Chloride (mg/L)	BY-AP-MW-13	9.9	n/a	9/1/2020	39.1	Yes 60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2	
Chloride (mg/L)	BY-AP-MW-14	9.9	n/a	9/2/2020	47.2	Yes 60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2	
Chloride (mg/L)	BY-AP-MW-15	9.9	n/a	9/2/2020	47	Yes 60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2	
Chloride (mg/L)	BY-AP-MW-16	9.9	n/a	9/2/2020	20.8	Yes 60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2	
Chloride (mg/L)	BY-AP-MW-2	9.9	n/a	8/31/2020	8.3	No 60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2	
Chloride (mg/L)	BY-AP-MW-3	9.9	n/a	9/1/2020	8.97	No 60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2	
Chloride (mg/L)	BY-AP-MW-4	9.9	n/a	9/1/2020	7.82	No 60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2	
Chloride (mg/L)	BY-AP-MW-5	9.9	n/a	9/1/2020	19.1	Yes 60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2	
Chloride (mg/L)	BY-AP-MW-6	9.9	n/a	9/2/2020	5.94	No 60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2	
Chloride (mg/L)	BY-AP-MW-7	9.9	n/a	9/2/2020	12.9	Yes 60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2	
Chloride (mg/L)	BY-AP-MW-8	9.9	n/a	9/2/2020	22.2	Yes 60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2	
Chloride (mg/L)	BY-AP-MW-9	9.9	n/a	9/2/2020	18.5	Yes 60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2	
Fluoride (mg/L)	BY-AP-MW-1	0.1	n/a	9/1/2020	0.194	Yes 64	n/a	n/a	46.88	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2	
Fluoride (mg/L)	BY-AP-MW-10	0.1	n/a	9/1/2020	0.0794J	No 64	n/a	n/a	46.88	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2	
Fluoride (mg/L)	BY-AP-MW-11	0.1	n/a	9/1/2020	0.0841J	No 64	n/a	n/a	46.88	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2	
Fluoride (mg/L)	BY-AP-MW-12	0.1	n/a	9/1/2020	0.0845J	No 64	n/a	n/a	46.88	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2	
Fluoride (mg/L)	BY-AP-MW-13	0.1	n/a	9/1/2020	0.0757J	No 64	n/a	n/a	46.88	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2	
Fluoride (mg/L)	BY-AP-MW-14	0.1	n/a	9/2/2020	0.0957J	No 64	n/a	n/a	46.88	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2	
Fluoride (mg/L)	BY-AP-MW-15	0.1	n/a	9/2/2020	0.18	Yes 64	n/a	n/a	46.88	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2	
Fluoride (mg/L)	BY-AP-MW-16	0.1	n/a	9/2/2020	0.1ND	No 64	n/a	n/a	46.88	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2	

Appendix III - Interwell Prediction Limits - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 12/8/2020, 4:52 PM

Constituent	Well	Upper Lim	Lower Lim	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	BY-AP-MW-2	0.1	n/a	8/31/2020	0.1ND	No	64	n/a	n/a	46.88	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BY-AP-MW-3	0.1	n/a	9/1/2020	0.1ND	No	64	n/a	n/a	46.88	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BY-AP-MW-4	0.1	n/a	9/1/2020	0.1ND	No	64	n/a	n/a	46.88	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BY-AP-MW-5	0.1	n/a	9/1/2020	0.0921J	No	64	n/a	n/a	46.88	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BY-AP-MW-6	0.1	n/a	9/2/2020	0.1ND	No	64	n/a	n/a	46.88	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BY-AP-MW-7	0.1	n/a	9/2/2020	0.109	Yes	64	n/a	n/a	46.88	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BY-AP-MW-8	0.1	n/a	9/2/2020	0.1ND	No	64	n/a	n/a	46.88	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BY-AP-MW-9	0.1	n/a	9/2/2020	0.0804J	No	64	n/a	n/a	46.88	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-1	58	n/a	9/1/2020	454	Yes	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-10	58	n/a	9/1/2020	392	Yes	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-11	58	n/a	9/1/2020	399	Yes	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-12	58	n/a	9/1/2020	356	Yes	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-13	58	n/a	9/1/2020	285	Yes	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-14	58	n/a	9/2/2020	327	Yes	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-15	58	n/a	9/2/2020	208	Yes	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-16	58	n/a	9/2/2020	279	Yes	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-2	58	n/a	8/31/2020	45.3	No	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-3	58	n/a	9/1/2020	39.3	No	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-4	58	n/a	9/1/2020	36	No	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-5	58	n/a	9/1/2020	253	Yes	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-6	58	n/a	9/2/2020	37.3	No	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-7	58	n/a	9/2/2020	129	Yes	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-8	58	n/a	9/2/2020	298	Yes	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-9	58	n/a	9/2/2020	301	Yes	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2

Appendix III - Intrawell Prediction Limits - Significant Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 12/8/2020, 5:00 PM

Constituent	Well	Upper Lim	Lower Lim	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH (pH)	BY-AP-MW-11	6.407	6.129	9/1/2020	5.87	Yes	15	6.268	0.05294	0	None	No	0.0002351	Param Intra 1 of 2
pH (pH)	BY-AP-MW-13	6.183	6.001	9/1/2020	5.82	Yes	15	6.092	0.03468	0	None	No	0.0002351	Param Intra 1 of 2
pH (pH)	BY-AP-MW-14	6.215	5.954	9/2/2020	5.8	Yes	15	37.04	0.6078	0	None	x^2	0.0002351	Param Intra 1 of 2
pH (pH)	BY-AP-MW-16	5.936	5.675	9/2/2020	5.47	Yes	15	5.805	0.04998	0	None	No	0.0002351	Param Intra 1 of 2
pH (pH)	BY-AP-MW-3	5.327	4.816	9/1/2020	4.24	Yes	15	5.071	0.0976	0	None	No	0.0002351	Param Intra 1 of 2
pH (pH)	BY-AP-MW-8	6.288	6.104	9/2/2020	5.89	Yes	15	6.196	0.03521	0	None	No	0.0002351	Param Intra 1 of 2
pH (pH)	BY-AP-MW-9	6.383	6.124	9/2/2020	5.97	Yes	15	6.253	0.04938	0	None	No	0.0002351	Param Intra 1 of 2
Sulfate (mg/L)	BY-AP-MW-1	6.348	n/a	9/1/2020	23.1	Yes	13	52.17	74.33	46.15	Kaplan-Meier	x^3	0.0004702	Param Intra 1 of 2
Sulfate (mg/L)	BY-AP-MW-10	5	n/a	9/1/2020	15.6	Yes	13	n/a	n/a	69.23	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	BY-AP-MW-11	19.37	n/a	9/1/2020	42.8	Yes	13	1.308	0.5028	46.15	Kaplan-Meier	x^(1/3)	0.0004702	Param Intra 1 of 2
Sulfate (mg/L)	BY-AP-MW-12	7.04	n/a	9/1/2020	32.1	Yes	12	n/a	n/a	75	n/a	n/a	0.01077	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	BY-AP-MW-15	6.2	n/a	9/2/2020	7.61	Yes	13	n/a	n/a	76.92	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	BY-AP-MW-16	6.72	n/a	9/2/2020	13.3	Yes	13	n/a	n/a	69.23	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	BY-AP-MW-5	5.51	n/a	9/1/2020	11	Yes	13	n/a	n/a	69.23	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	BY-AP-MW-8	6.01	n/a	9/2/2020	15.8	Yes	13	n/a	n/a	76.92	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	BY-AP-MW-9	5.91	n/a	9/2/2020	21.9	Yes	13	n/a	n/a	69.23	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2

Appendix III - Intrawell Prediction Limits - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 12/8/2020, 4:57 PM

Constituent	Well	Upper Lim	Lower Lim	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH (pH)	BY-AP-MW-1	5.947	5.708	9/1/2020	5.89	No	15	5.827	0.04574	0	None	No	0.0002351	Param Intra 1 of 2
pH (pH)	BY-AP-MW-10	6.413	6.194	9/1/2020	6.33	No	15	6.303	0.04186	0	None	No	0.0002351	Param Intra 1 of 2
pH (pH)	BY-AP-MW-11	6.407	6.129	9/1/2020	5.87	Yes	15	6.268	0.05294	0	None	No	0.0002351	Param Intra 1 of 2
pH (pH)	BY-AP-MW-12	6.282	6.038	9/1/2020	6.19	No	15	6.16	0.04675	0	None	No	0.0002351	Param Intra 1 of 2
pH (pH)	BY-AP-MW-13	6.183	6.001	9/1/2020	5.82	Yes	15	6.092	0.03468	0	None	No	0.0002351	Param Intra 1 of 2
pH (pH)	BY-AP-MW-14	6.215	5.954	9/2/2020	5.8	Yes	15	37.04	0.6078	0	None	x^2	0.0002351	Param Intra 1 of 2
pH (pH)	BY-AP-MW-15	6.831	6.476	9/2/2020	6.57	No	15	6.653	0.06789	0	None	No	0.0002351	Param Intra 1 of 2
pH (pH)	BY-AP-MW-16	5.936	5.675	9/2/2020	5.47	Yes	15	5.805	0.04998	0	None	No	0.0002351	Param Intra 1 of 2
pH (pH)	BY-AP-MW-2	6.156	5.437	8/31/2020	5.57	No	15	5.797	0.1375	0	None	No	0.0002351	Param Intra 1 of 2
pH (pH)	BY-AP-MW-3	5.327	4.816	9/1/2020	4.24	Yes	15	5.071	0.0976	0	None	No	0.0002351	Param Intra 1 of 2
pH (pH)	BY-AP-MW-4	5.362	4.114	9/1/2020	4.23	No	15	4.738	0.2385	0	None	No	0.0002351	Param Intra 1 of 2
pH (pH)	BY-AP-MW-5	6.062	5.922	9/1/2020	5.93	No	15	5.992	0.02678	0	None	No	0.0002351	Param Intra 1 of 2
pH (pH)	BY-AP-MW-6	5.627	5.125	9/2/2020	5.16	No	15	5.376	0.09605	0	None	No	0.0002351	Param Intra 1 of 2
pH (pH)	BY-AP-MW-7	6.419	6.16	9/2/2020	6.25	No	14	6.289	0.04843	0	None	No	0.0002351	Param Intra 1 of 2
pH (pH)	BY-AP-MW-8	6.288	6.104	9/2/2020	5.89	Yes	15	6.196	0.03521	0	None	No	0.0002351	Param Intra 1 of 2
pH (pH)	BY-AP-MW-9	6.383	6.124	9/2/2020	5.97	Yes	15	6.253	0.04938	0	None	No	0.0002351	Param Intra 1 of 2
pH (pH)	BY-GSA-MW-1	4.911	4.482	9/9/2020	4.65	No	14	4.696	0.08025	0	None	No	0.0002351	Param Intra 1 of 2
pH (pH)	BY-GSA-MW-2	4.958	4.493	9/9/2020	4.67	No	14	4.726	0.08689	0	None	No	0.0002351	Param Intra 1 of 2
pH (pH)	BY-GSA-MW-3	5.095	4.729	9/9/2020	4.76	No	14	4.912	0.0683	0	None	No	0.0002351	Param Intra 1 of 2
pH (pH)	BY-GSA-MW-4	5.043	4.641	9/8/2020	4.75	No	14	4.842	0.07516	0	None	No	0.0002351	Param Intra 1 of 2
Sulfate (mg/L)	BY-AP-MW-1	6.348	n/a	9/1/2020	23.1	Yes	13	52.17	74.33	46.15	Kaplan-Meier	x^3	0.0004702	Param Intra 1 of 2
Sulfate (mg/L)	BY-AP-MW-10	5	n/a	9/1/2020	15.6	Yes	13	n/a	n/a	69.23	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	BY-AP-MW-11	19.37	n/a	9/1/2020	42.8	Yes	13	1.308	0.5028	46.15	Kaplan-Meier	x^(1/3)	0.0004702	Param Intra 1 of 2
Sulfate (mg/L)	BY-AP-MW-12	7.04	n/a	9/1/2020	32.1	Yes	12	n/a	n/a	75	n/a	n/a	0.01077	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	BY-AP-MW-13	49.5	n/a	9/1/2020	14.2	No	13	n/a	n/a	38.46	n/a	n/a	0.009692	NP Intra (normality) 1 of 2
Sulfate (mg/L)	BY-AP-MW-14	67.6	n/a	9/2/2020	18.5	No	13	n/a	n/a	69.23	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	BY-AP-MW-15	6.2	n/a	9/2/2020	7.61	Yes	13	n/a	n/a	76.92	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	BY-AP-MW-16	6.72	n/a	9/2/2020	13.3	Yes	13	n/a	n/a	69.23	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	BY-AP-MW-2	3.3	n/a	8/31/2020	0.576J	No	13	n/a	n/a	69.23	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	BY-AP-MW-3	5	n/a	9/1/2020	0.705J	No	13	n/a	n/a	53.85	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	BY-AP-MW-4	5.906	n/a	9/1/2020	1.83	No	13	2.804	1.132	7.692	None	No	0.0004702	Param Intra 1 of 2
Sulfate (mg/L)	BY-AP-MW-5	5.51	n/a	9/1/2020	11	Yes	13	n/a	n/a	69.23	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	BY-AP-MW-6	2.774	n/a	9/2/2020	1.02	No	13	1.027	0.2332	30.77	Kaplan-Meier	sqrt(x)	0.0004702	Param Intra 1 of 2
Sulfate (mg/L)	BY-AP-MW-7	5	n/a	9/2/2020	3.59	No	12	n/a	n/a	50	n/a	n/a	0.01077	NP Intra (normality) 1 of 2
Sulfate (mg/L)	BY-AP-MW-8	6.01	n/a	9/2/2020	15.8	Yes	13	n/a	n/a	76.92	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	BY-AP-MW-9	5.91	n/a	9/2/2020	21.9	Yes	13	n/a	n/a	69.23	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	BY-GSA-MW-1	23.3	n/a	9/9/2020	16.5	No	12	n/a	n/a	0	n/a	n/a	0.01077	NP Intra (normality) 1 of 2
Sulfate (mg/L)	BY-GSA-MW-2	10.46	n/a	9/9/2020	6.08	No	11	6.358	1.408	0	None	No	0.0004702	Param Intra 1 of 2
Sulfate (mg/L)	BY-GSA-MW-3	9.409	n/a	9/9/2020	7.13	No	12	7.456	0.6976	0	None	No	0.0004702	Param Intra 1 of 2
Sulfate (mg/L)	BY-GSA-MW-4	8.668	n/a	9/8/2020	6.52	No	12	6.626	0.7293	0	None	No	0.0004702	Param Intra 1 of 2

Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 12/8/2020, 5:07 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	BY-AP-MW-10	0.15	76	53	Yes	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	BY-AP-MW-8	-0.1051	-70	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-10	2.598	72	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-11	-0.6568	-78	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-12	0.5938	81	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-15	0.2738	62	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-7	0.6035	93	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-8	-0.7237	-73	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-GSA-MW-2 (bg)	0.1427	61	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-GSA-MW-4 (bg)	0.1144	65	53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-10	1.909	90	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-14	1.573	62	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-15	8.091	102	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-16	1.09	79	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-GSA-MW-2 (bg)	-0.4186	-60	-53	Yes	15	0	n/a	n/a	0.01	NP
pH (pH)	BY-AP-MW-13	-0.02844	-71	-68	Yes	18	0	n/a	n/a	0.01	NP
pH (pH)	BY-AP-MW-8	-0.01843	-70	-68	Yes	18	0	n/a	n/a	0.01	NP
pH (pH)	BY-GSA-MW-2 (bg)	-0.06003	-77	-63	Yes	17	0	n/a	n/a	0.01	NP
pH (pH)	BY-GSA-MW-3 (bg)	-0.04822	-69	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-AP-MW-1	1.93	69	58	Yes	16	37.5	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-AP-MW-11	7.04	79	58	Yes	16	37.5	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-15	11.54	80	58	Yes	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-GSA-MW-1 (bg)	6.385	71	53	Yes	15	6.667	n/a	n/a	0.01	NP
TDS (mg/L)	BY-GSA-MW-2 (bg)	3.19	60	53	Yes	15	13.33	n/a	n/a	0.01	NP
TDS (mg/L)	BY-GSA-MW-4 (bg)	3.921	63	53	Yes	15	26.67	n/a	n/a	0.01	NP

Trend Tests - Prediction Limit Exceedances - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 12/8/2020, 5:07 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	BY-AP-MW-1	0.02626	13	53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	BY-AP-MW-10	0.15	76	53	Yes	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	BY-AP-MW-16	0.06088	50	53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	BY-AP-MW-8	-0.1051	-70	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	BY-AP-MW-9	0.06586	45	53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	BY-GSA-MW-1 (bg)	0	17	53	No	15	53.33	n/a	n/a	0.01	NP
Boron (mg/L)	BY-GSA-MW-2 (bg)	0	21	48	No	14	85.71	n/a	n/a	0.01	NP
Boron (mg/L)	BY-GSA-MW-3 (bg)	0	0	53	No	15	100	n/a	n/a	0.01	NP
Boron (mg/L)	BY-GSA-MW-4 (bg)	0	19	53	No	15	86.67	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-1	-0.4318	-10	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-10	2.598	72	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-11	-0.6568	-78	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-12	0.5938	81	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-13	0.2354	26	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-14	-0.1528	-12	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-15	0.2738	62	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-16	-0.03773	-7	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-2	-0.05823	-38	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-5	-0.101	-19	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-7	0.6035	93	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-8	-0.7237	-73	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-9	0.07965	8	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-GSA-MW-1 (bg)	0.1131	30	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-GSA-MW-2 (bg)	0.1427	61	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-GSA-MW-3 (bg)	0.06599	44	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-GSA-MW-4 (bg)	0.1144	65	53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-1	1.086	34	48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-10	1.909	90	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-11	0.7006	29	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-12	0.4983	58	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-13	0	0	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-14	1.573	62	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-15	8.091	102	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-16	1.09	79	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-5	0	5	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-7	0.4011	39	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-8	0.5549	29	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-9	-0.6738	-22	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-GSA-MW-1 (bg)	0.062	12	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-GSA-MW-2 (bg)	-0.4186	-60	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-GSA-MW-3 (bg)	-0.0446	-27	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-GSA-MW-4 (bg)	-0.05577	-27	-53	No	15	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	BY-AP-MW-1	0.0105	48	58	No	16	18.75	n/a	n/a	0.01	NP
Fluoride (mg/L)	BY-AP-MW-15	-0.001465	-18	-58	No	16	6.25	n/a	n/a	0.01	NP
Fluoride (mg/L)	BY-AP-MW-7	0.005247	45	58	No	16	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	BY-GSA-MW-1 (bg)	0.009724	46	58	No	16	37.5	n/a	n/a	0.01	NP
Fluoride (mg/L)	BY-GSA-MW-2 (bg)	0.01509	55	58	No	16	37.5	n/a	n/a	0.01	NP
Fluoride (mg/L)	BY-GSA-MW-3 (bg)	0.01192	57	58	No	16	56.25	n/a	n/a	0.01	NP
Fluoride (mg/L)	BY-GSA-MW-4 (bg)	0.009702	57	58	No	16	56.25	n/a	n/a	0.01	NP
pH (pH)	BY-AP-MW-11	-0.03028	-55	-68	No	18	0	n/a	n/a	0.01	NP
pH (pH)	BY-AP-MW-13	-0.02844	-71	-68	Yes	18	0	n/a	n/a	0.01	NP
pH (pH)	BY-AP-MW-14	-0.0158	-26	-68	No	18	0	n/a	n/a	0.01	NP
pH (pH)	BY-AP-MW-16	-0.0132	-25	-68	No	18	0	n/a	n/a	0.01	NP
pH (pH)	BY-AP-MW-3	-0.03874	-53	-68	No	18	0	n/a	n/a	0.01	NP
pH (pH)	BY-AP-MW-8	-0.01843	-70	-68	Yes	18	0	n/a	n/a	0.01	NP

Trend Tests - Prediction Limit Exceedances - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 12/8/2020, 5:07 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
pH (pH)	BY-AP-MW-9	-0.007464	-9	-68	No	18	0	n/a	n/a	0.01	NP
pH (pH)	BY-GSA-MW-1 (bg)	0	-3	-63	No	17	0	n/a	n/a	0.01	NP
pH (pH)	BY-GSA-MW-2 (bg)	-0.06003	-77	-63	Yes	17	0	n/a	n/a	0.01	NP
pH (pH)	BY-GSA-MW-3 (bg)	-0.04822	-69	-63	Yes	17	0	n/a	n/a	0.01	NP
pH (pH)	BY-GSA-MW-4 (bg)	-0.03765	-47	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-AP-MW-1	1.93	69	58	Yes	16	37.5	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-AP-MW-10	0	30	58	No	16	56.25	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-AP-MW-11	7.04	79	58	Yes	16	37.5	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-AP-MW-12	1.195	51	53	No	15	60	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-AP-MW-15	0	23	58	No	16	62.5	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-AP-MW-16	0	26	58	No	16	56.25	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-AP-MW-5	0.1906	42	58	No	16	56.25	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-AP-MW-8	0.1336	57	58	No	16	62.5	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-AP-MW-9	0	28	58	No	16	56.25	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-GSA-MW-1 (bg)	2.511	33	53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-GSA-MW-2 (bg)	-0.3861	-27	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-GSA-MW-3 (bg)	-0.1206	-17	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-GSA-MW-4 (bg)	-0.0473	-12	-53	No	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-1	-6.195	-40	-58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-10	7.891	56	58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-11	2.62	17	58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-12	-3.211	-19	-58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-13	-3.901	-23	-58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-14	1.66	10	58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-15	11.54	80	58	Yes	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-16	2.459	21	58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-5	-4.403	-42	-58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-7	0.7866	15	53	No	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-8	-3.764	-35	-58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-9	-2.603	-21	-58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-GSA-MW-1 (bg)	6.385	71	53	Yes	15	6.667	n/a	n/a	0.01	NP
TDS (mg/L)	BY-GSA-MW-2 (bg)	3.19	60	53	Yes	15	13.33	n/a	n/a	0.01	NP
TDS (mg/L)	BY-GSA-MW-3 (bg)	1.858	35	53	No	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-GSA-MW-4 (bg)	3.921	63	53	Yes	15	26.67	n/a	n/a	0.01	NP

Upper Tolerance Limits - Appendix IV

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 7/23/2020, 4:09 PM

<u>Constituent</u>	<u>Upper Lim.</u>	<u>Lower Lim.</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)	0.003	n/a	52	n/a	n/a	90.38	n/a	n/a	0.06944	NP Inter(NDs)
Arsenic (mg/L)	0.005	n/a	52	n/a	n/a	100	n/a	n/a	0.06944	NP Inter(NDs)
Barium (mg/L)	0.183	n/a	52	n/a	n/a	0	n/a	n/a	0.06944	NP Inter(normal...
Beryllium (mg/L)	0.003	n/a	50	n/a	n/a	94	n/a	n/a	0.07694	NP Inter(NDs)
Cadmium (mg/L)	0.001	n/a	52	n/a	n/a	100	n/a	n/a	0.06944	NP Inter(NDs)
Chromium (mg/L)	0.01	n/a	52	n/a	n/a	96.15	n/a	n/a	0.06944	NP Inter(NDs)
Cobalt (mg/L)	0.0157	n/a	51	n/a	n/a	68.63	n/a	n/a	0.0731	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	3.202	n/a	52	0.9903	0.2355	0	None	x^(1/3)	0.05	Inter
Fluoride (mg/L)	0.1	n/a	56	n/a	n/a	39.29	n/a	n/a	0.05656	NP Inter(normal...
Lead (mg/L)	0.005	n/a	52	n/a	n/a	100	n/a	n/a	0.06944	NP Inter(NDs)
Lithium (mg/L)	0.02	n/a	52	n/a	n/a	100	n/a	n/a	0.06944	NP Inter(NDs)
Mercury (mg/L)	0.0005	n/a	52	n/a	n/a	100	n/a	n/a	0.06944	NP Inter(NDs)
Molybdenum (mg/L)	0.01	n/a	52	n/a	n/a	100	n/a	n/a	0.06944	NP Inter(NDs)
Selenium (mg/L)	0.01	n/a	52	n/a	n/a	100	n/a	n/a	0.06944	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	52	n/a	n/a	100	n/a	n/a	0.06944	NP Inter(NDs)

BARRY ASH POND GWPS			
Analyte	Units	Background	GWPS
Antimony	mg/L	0.003	0.006
Arsenic	mg/L	0.005	0.01
Barium	mg/L	0.183	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	0.0157	0.0157
Combined Radium-226/228	pCi/L	3.202	5
Fluoride	mg/L	0.1	4
Lead	mg/L	0.005	0.015
Lithium	mg/L	0.02	0.04
Mercury	mg/L	0.0005	0.002
Molybdenum	mg/L	0.01	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 2019.

Confidence Intervals Summary - Significant Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 12/11/2020, 9:28 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	BY-AP-MW-1	0.07668	0.05429	0.01	Yes 8	0.06549	0.01056	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-10	0.07544	0.04506	0.01	Yes 8	0.06025	0.01433	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-11	0.01612	0.0138	0.01	Yes 8	0.01496	0.001097	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-12	0.02427	0.02125	0.01	Yes 8	0.02276	0.001424	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-13	0.0175	0.0138	0.01	Yes 8	0.01488	0.00118	0	None	No	0.004	NP (normality)
Arsenic (mg/L)	BY-AP-MW-14	0.01699	0.01353	0.01	Yes 8	0.01526	0.00163	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-15	0.01915	0.01528	0.01	Yes 8	0.01721	0.001825	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-16	0.01412	0.01019	0.01	Yes 8	0.01215	0.001854	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-5	0.03414	0.02766	0.01	Yes 8	0.0309	0.00306	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-7	0.0228	0.0194	0.01	Yes 8	0.0211	0.001602	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-8	0.06075	0.04557	0.01	Yes 8	0.05316	0.00716	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-9	0.04413	0.03788	0.01	Yes 8	0.04103	0.003052	0	None	x^2	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-15	0.0361	0.02827	0.0157	Yes 8	0.03219	0.003695	0	None	No	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-7	0.01933	0.01642	0.0157	Yes 8	0.01788	0.001375	0	None	No	0.01	Param.

Confidence Intervals Summary - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 12/11/2020, 9:28 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	BY-AP-MW-1	0.003	0.003	0.006	No 8	0.003	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	BY-AP-MW-10	0.003	0.003	0.006	No 8	0.003	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	BY-AP-MW-11	0.003	0.003	0.006	No 8	0.003	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	BY-AP-MW-12	0.003	0.003	0.006	No 8	0.003	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	BY-AP-MW-13	0.003	0.000857	0.006	No 8	0.002732	0.0007577	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	BY-AP-MW-14	0.003	0.003	0.006	No 8	0.003	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	BY-AP-MW-15	0.003	0.003	0.006	No 8	0.003	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	BY-AP-MW-16	0.003	0.003	0.006	No 8	0.003	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	BY-AP-MW-2	0.003	0.003	0.006	No 8	0.003	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	BY-AP-MW-3	0.003	0.003	0.006	No 8	0.003	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	BY-AP-MW-4	0.003	0.003	0.006	No 8	0.003	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	BY-AP-MW-5	0.003	0.003	0.006	No 8	0.003	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	BY-AP-MW-6	0.003	0.003	0.006	No 8	0.003	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	BY-AP-MW-7	0.003	0.003	0.006	No 8	0.003	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	BY-AP-MW-8	0.003	0.003	0.006	No 8	0.003	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	BY-AP-MW-9	0.003	0.003	0.006	No 8	0.003	0	100	None	No	0.004	NP (NDs)
Arsenic (mg/L)	BY-AP-MW-1	0.07668	0.05429	0.01	Yes 8	0.06549	0.01056	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-10	0.07544	0.04506	0.01	Yes 8	0.06025	0.01433	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-11	0.01612	0.0138	0.01	Yes 8	0.01496	0.001097	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-12	0.02427	0.02125	0.01	Yes 8	0.02276	0.001424	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-13	0.0175	0.0138	0.01	Yes 8	0.01488	0.00118	0	None	No	0.004	NP (normality)
Arsenic (mg/L)	BY-AP-MW-14	0.01699	0.01353	0.01	Yes 8	0.01526	0.00163	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-15	0.01915	0.01528	0.01	Yes 8	0.01721	0.001825	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-16	0.01412	0.01019	0.01	Yes 8	0.01215	0.001854	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-2	0.001724	0.001376	0.01	No 8	0.00155	0.000164	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-5	0.03414	0.02766	0.01	Yes 8	0.0309	0.00306	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-6	0.0025	0.0025	0.01	No 8	0.0025	0	100	None	No	0.004	NP (NDs)
Arsenic (mg/L)	BY-AP-MW-7	0.0228	0.0194	0.01	Yes 8	0.0211	0.001602	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-8	0.06075	0.04557	0.01	Yes 8	0.05316	0.00716	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-9	0.04413	0.03788	0.01	Yes 8	0.04103	0.003052	0	None	x^2	0.01	Param.
Barium (mg/L)	BY-AP-MW-1	0.3093	0.2612	2	No 8	0.2853	0.02271	0	None	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-10	0.07497	0.06311	2	No 8	0.06904	0.005594	0	None	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-11	0.09023	0.0728	2	No 8	0.08151	0.008224	0	None	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-12	0.08398	0.07277	2	No 8	0.07838	0.005292	0	None	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-13	0.0806	0.0688	2	No 8	0.0717	0.003855	0	None	No	0.004	NP (normality)
Barium (mg/L)	BY-AP-MW-14	0.0687	0.0585	2	No 8	0.06155	0.003146	0	None	No	0.004	NP (normality)
Barium (mg/L)	BY-AP-MW-15	0.06907	0.04825	2	No 8	0.05866	0.009823	0	None	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-16	0.09141	0.07422	2	No 8	0.08281	0.008109	0	None	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-2	0.0272	0.0225	2	No 8	0.02485	0.002221	0	None	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-3	0.03884	0.03081	2	No 8	0.03483	0.003786	0	None	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-4	0.02949	0.01623	2	No 8	0.02286	0.006257	0	None	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-5	0.1536	0.1299	2	No 8	0.1418	0.01117	0	None	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-6	0.02734	0.02376	2	No 8	0.02555	0.001687	0	None	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-7	0.06883	0.05529	2	No 8	0.06206	0.006388	0	None	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-8	0.1484	0.1308	2	No 8	0.1396	0.008314	0	None	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-9	0.1231	0.1124	2	No 8	0.1178	0.005092	0	None	No	0.01	Param.
Beryllium (mg/L)	BY-AP-MW-13	0.003	0.00103	0.004	No 8	0.002754	0.0006965	87.5	None	No	0.004	NP (NDs)
Beryllium (mg/L)	BY-AP-MW-4	0.003	0.00071	0.004	No 8	0.002714	0.0008096	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	BY-AP-MW-13	0.001	0.00077	0.005	No 8	0.0009713	0.00008132	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	BY-AP-MW-1	0.003983	0.002227	0.1	No 8	0.003105	0.0008286	0	None	No	0.01	Param.
Chromium (mg/L)	BY-AP-MW-11	0.002994	0.002118	0.1	No 8	0.00255	0.0004594	0	None	ln(x)	0.01	Param.
Chromium (mg/L)	BY-AP-MW-12	0.00605	0.00325	0.1	No 8	0.004039	0.001119	0	None	No	0.004	NP (normality)
Chromium (mg/L)	BY-AP-MW-13	0.008779	0.006564	0.1	No 8	0.007671	0.001045	0	None	No	0.01	Param.
Chromium (mg/L)	BY-AP-MW-14	0.005532	0.004665	0.1	No 8	0.005099	0.0004088	0	None	No	0.01	Param.
Chromium (mg/L)	BY-AP-MW-16	0.01	0.00253	0.1	No 8	0.009066	0.002641	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	BY-AP-MW-7	0.01	0.00328	0.1	No 8	0.00916	0.002376	87.5	None	No	0.004	NP (NDs)

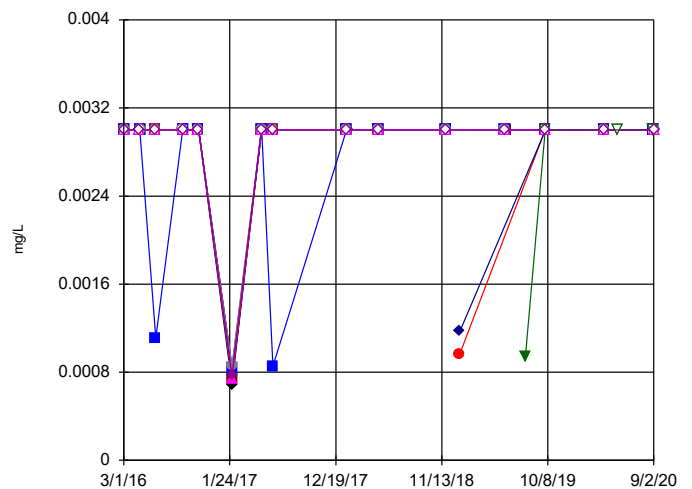
Confidence Intervals Summary - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 12/11/2020, 9:28 AM

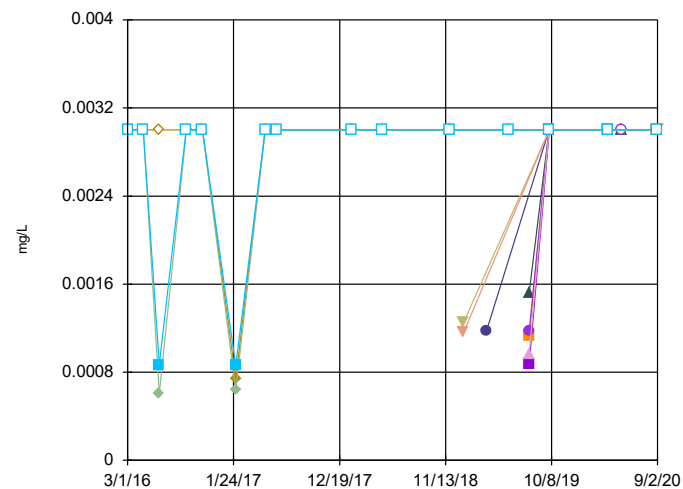
Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	BY-AP-MW-12	0.003448	0.002527	0.0157	No 8	0.002988	0.0004346	0	None	No	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-15	0.0361	0.02827	0.0157	Yes 8	0.03219	0.003695	0	None	No	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-16	0.02052	0.01283	0.0157	No 8	0.01636	0.005129	0	None	x^3	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-2	0.00747	0.006398	0.0157	No 8	0.006934	0.0005056	0	None	No	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-4	0.01247	0.001972	0.0157	No 8	0.006995	0.00645	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-7	0.01933	0.01642	0.0157	Yes 8	0.01788	0.001375	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-1	2.471	1.274	5	No 8	1.873	0.5649	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-10	1.292	0.1937	5	No 8	0.7429	0.5181	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-11	1.005	0.3388	5	No 8	0.672	0.3144	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-12	1.565	0.7673	5	No 8	1.158	0.4078	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-13	0.9931	0.6139	5	No 8	0.8035	0.1788	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-14	1.369	0.2324	5	No 8	0.7748	0.6246	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-15	1.312	0.2203	5	No 8	0.7661	0.515	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-16	1.833	0.3455	5	No 8	1.055	0.8431	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-2	0.8261	0.04701	5	No 8	0.4366	0.3675	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-3	1.465	0.1508	5	No 8	0.7704	0.7532	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-4	0.8051	0.1829	5	No 8	0.494	0.2935	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-5	2.003	0.7016	5	No 8	1.352	0.6139	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-6	0.8483	-0.01702	5	No 8	0.4156	0.4082	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-7	0.6952	0.2973	5	No 8	0.4448	0.3172	0	None	x^2	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-8	3.95	0.321	5	No 8	0.9839	1.206	0	None	No	0.004	NP (normality)
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-9	1.464	0.6207	5	No 8	1.035	0.5202	0	None	ln(x)	0.01	Param.
Fluoride (mg/L)	BY-AP-MW-1	0.1223	0.04378	4	No 8	0.09085	0.04594	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BY-AP-MW-10	0.1	0.04	4	No 8	0.08459	0.02375	62.5	Kaplan-Meier	No	0.004	NP (NDs)
Fluoride (mg/L)	BY-AP-MW-11	0.08943	0.05589	4	No 8	0.07266	0.01582	12.5	None	No	0.01	Param.
Fluoride (mg/L)	BY-AP-MW-12	0.08837	0.04811	4	No 8	0.06824	0.01899	12.5	None	No	0.01	Param.
Fluoride (mg/L)	BY-AP-MW-13	0.0853	0.0548	4	No 8	0.07005	0.01439	12.5	None	No	0.01	Param.
Fluoride (mg/L)	BY-AP-MW-14	0.09668	0.07057	4	No 8	0.08363	0.01232	12.5	None	No	0.01	Param.
Fluoride (mg/L)	BY-AP-MW-15	0.19	0.1	4	No 8	0.1725	0.03016	12.5	None	No	0.004	NP (normality)
Fluoride (mg/L)	BY-AP-MW-16	0.07238	0.05009	4	No 8	0.07574	0.02201	37.5	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BY-AP-MW-2	0.1	0.037	4	No 8	0.09213	0.02227	87.5	Kaplan-Meier	No	0.004	NP (NDs)
Fluoride (mg/L)	BY-AP-MW-3	0.1	0.1	4	No 8	0.1	0	100	Kaplan-Meier	No	0.004	NP (NDs)
Fluoride (mg/L)	BY-AP-MW-4	0.1	0.1	4	No 8	0.1	0	100	Kaplan-Meier	No	0.004	NP (NDs)
Fluoride (mg/L)	BY-AP-MW-5	0.09357	0.04983	4	No 8	0.0717	0.02063	12.5	None	No	0.01	Param.
Fluoride (mg/L)	BY-AP-MW-6	0.1	0.1	4	No 8	0.1	0	100	None	No	0.004	NP (NDs)
Fluoride (mg/L)	BY-AP-MW-7	0.1014	0.07324	4	No 8	0.08731	0.01328	0	None	No	0.01	Param.
Fluoride (mg/L)	BY-AP-MW-8	0.07836	0.03928	4	No 8	0.06898	0.02634	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BY-AP-MW-9	0.07799	0.04953	4	No 8	0.06376	0.01342	0	None	No	0.01	Param.
Lead (mg/L)	BY-AP-MW-6	0.00545	0.00171	0.015	No 8	0.003971	0.001581	50	None	No	0.004	NP (normality)
Lead (mg/L)	BY-AP-MW-9	0.005	0.00108	0.015	No 8	0.00451	0.001386	87.5	None	No	0.004	NP (NDs)
Lithium (mg/L)	BY-AP-MW-11	0.0384	0.02	0.04	No 8	0.02519	0.006761	37.5	None	No	0.004	NP (normality)
Lithium (mg/L)	BY-AP-MW-15	0.02264	0.01567	0.04	No 8	0.02056	0.003071	50	Kaplan-Meier	sqrt(x)	0.01	Param.
Lithium (mg/L)	BY-AP-MW-7	0.02	0.0102	0.04	No 8	0.01762	0.004401	75	Kaplan-Meier	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-15	0.01	0.00209	0.1	No 8	0.008025	0.003657	75	None	No	0.004	NP (NDs)
Thallium (mg/L)	BY-AP-MW-13	0.001	0.000878	0.002	No 8	0.0009848	0.00004313	87.5	None	No	0.004	NP (NDs)

FIGURE A.

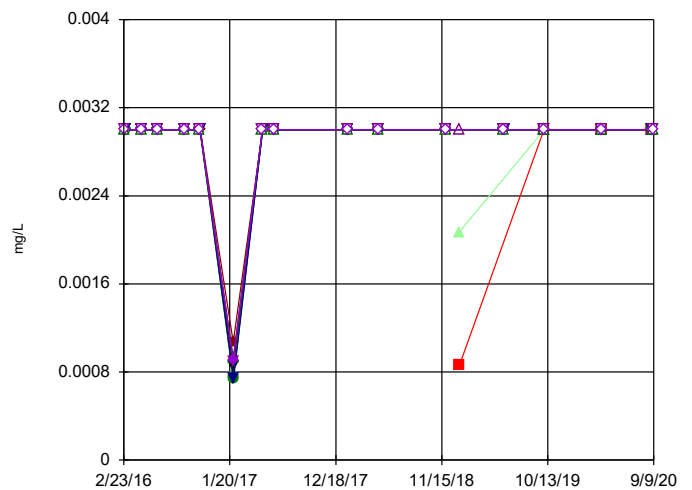
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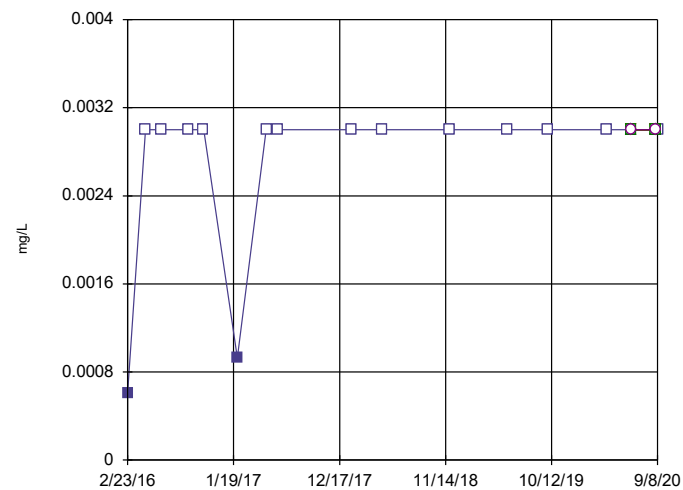
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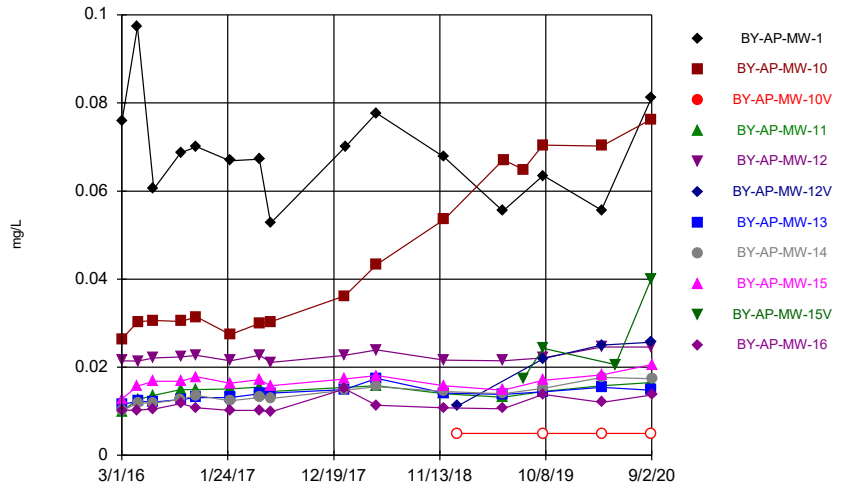
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Time Series

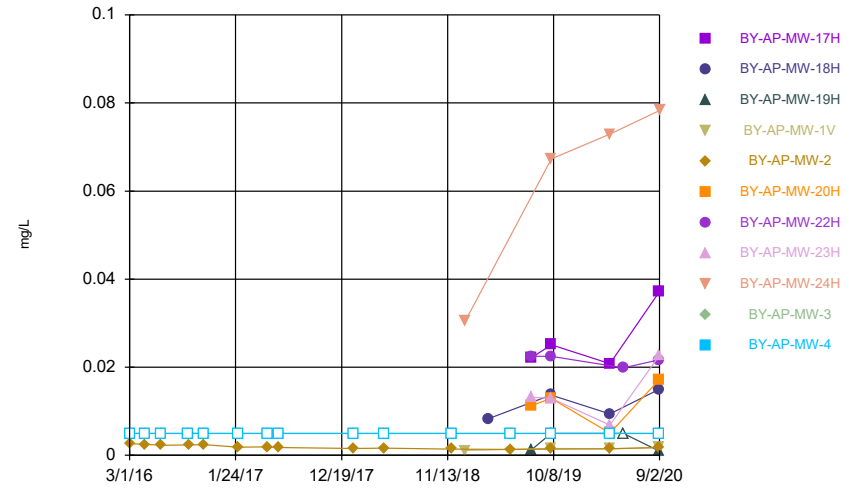


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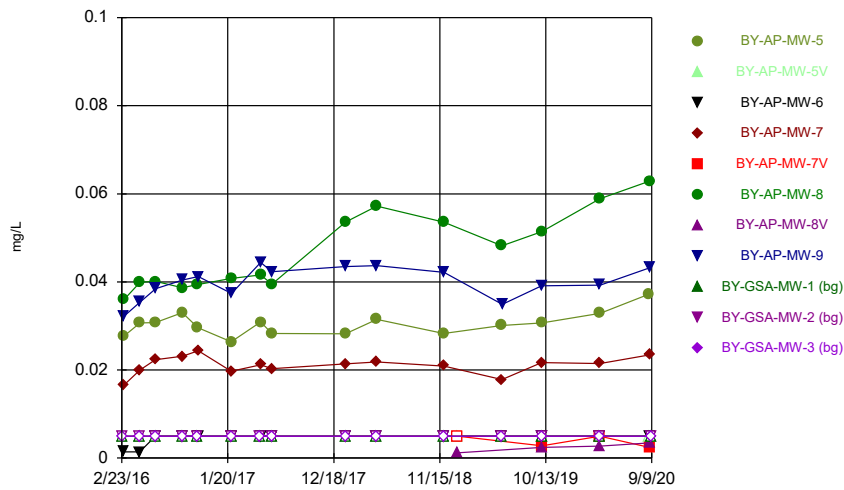
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



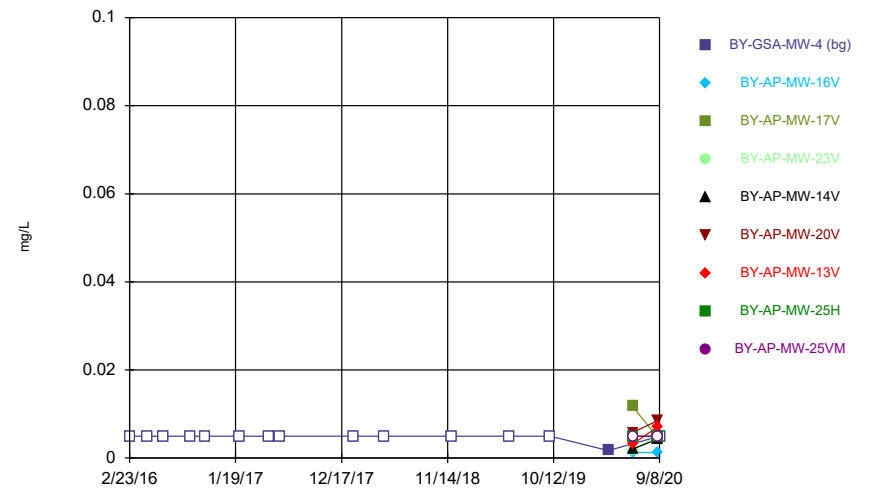
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



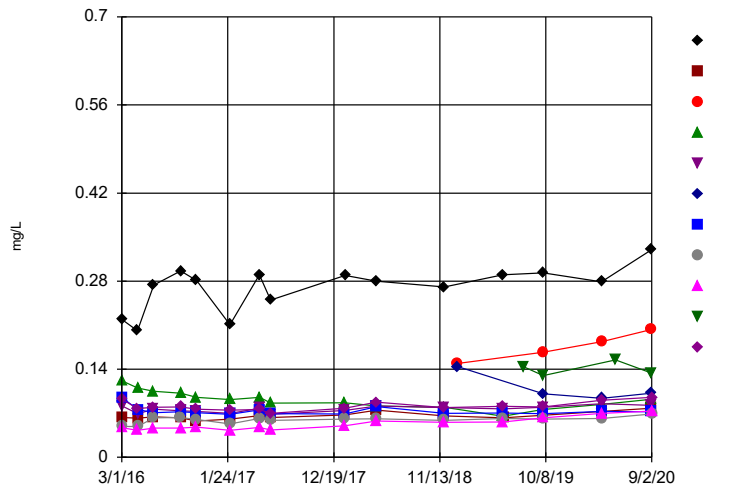
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



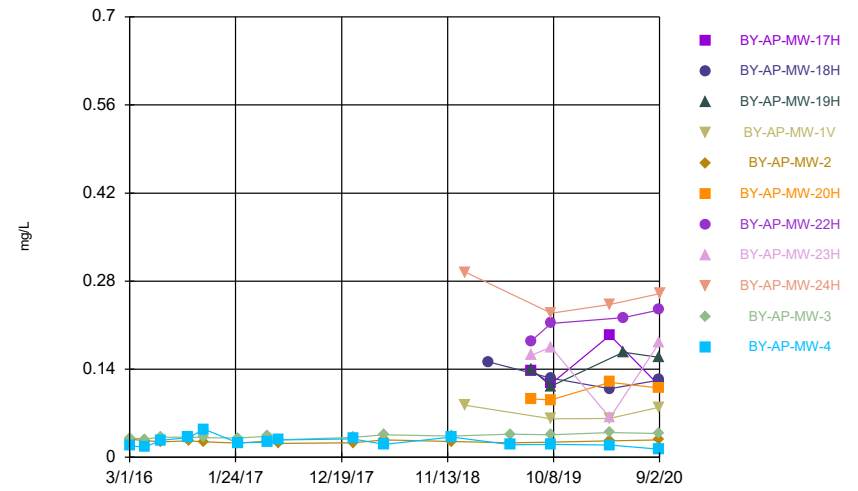
Constituent: Arsenic Analysis Run 12/11/2020 9:13 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



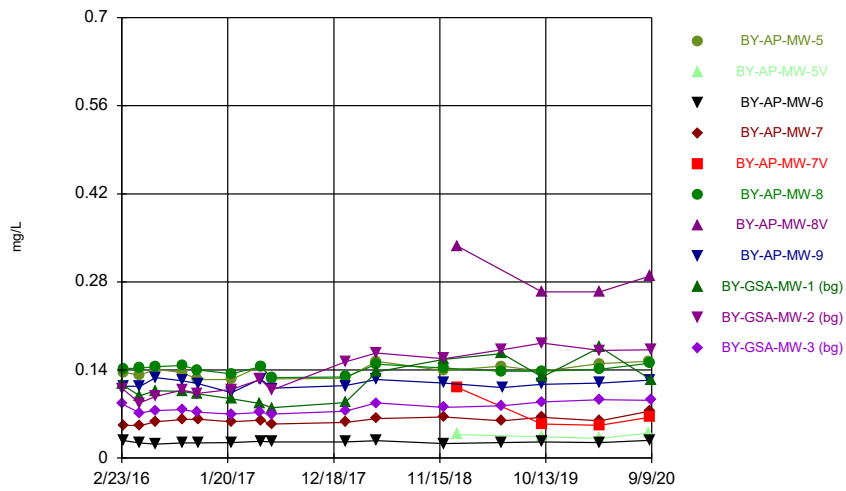
Constituent: Barium Analysis Run 12/11/2020 9:13 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



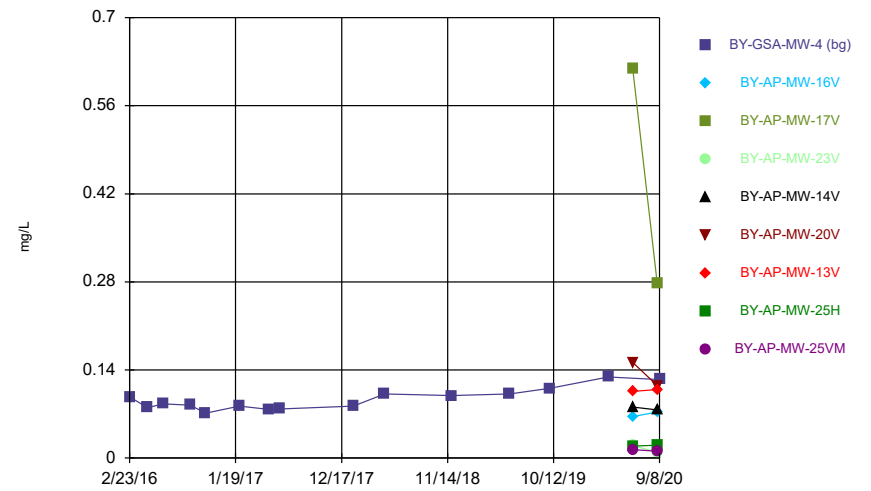
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



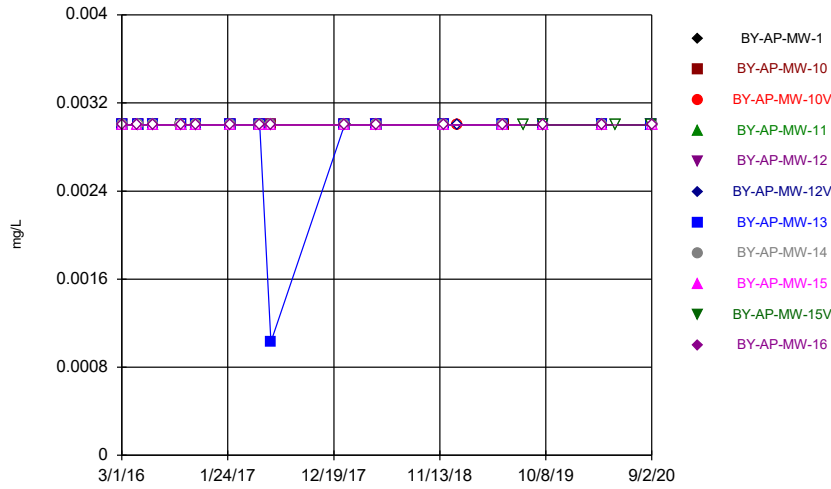
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



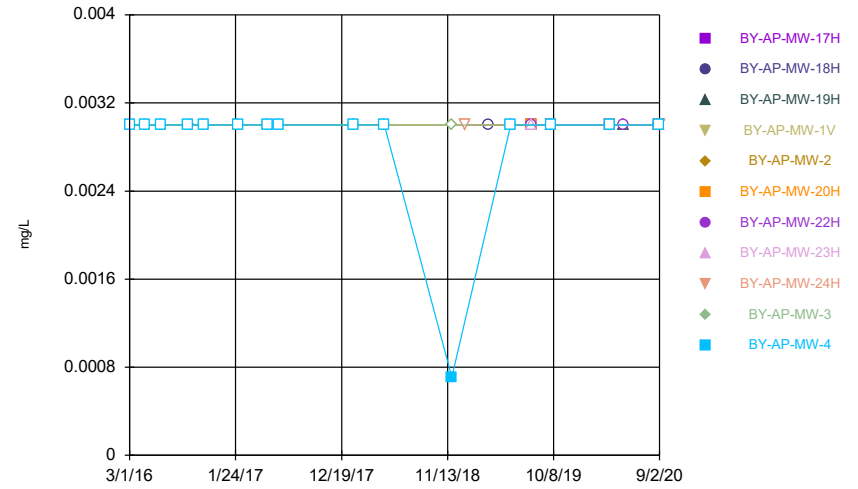
Constituent: Barium Analysis Run 12/11/2020 9:13 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



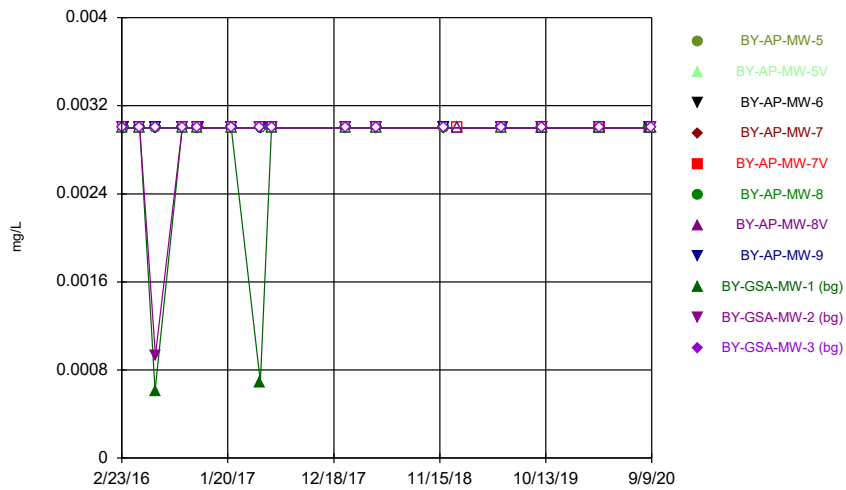
Constituent: Beryllium Analysis Run 12/11/2020 9:13 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



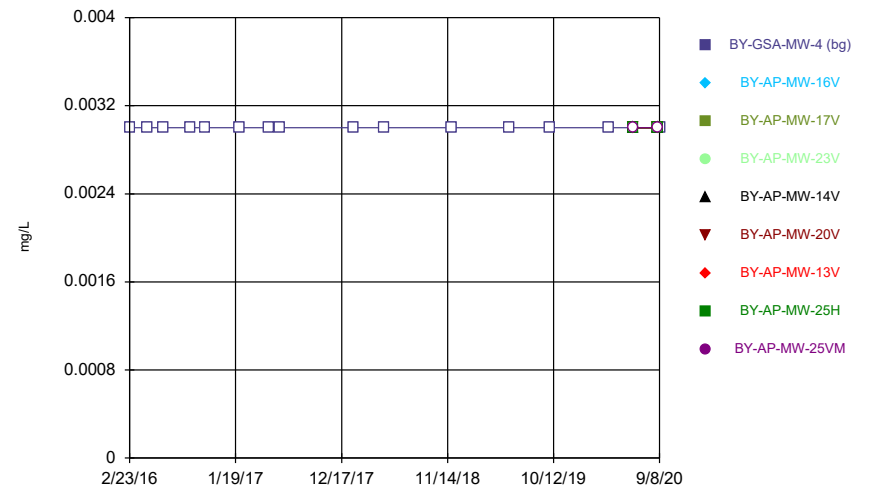
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



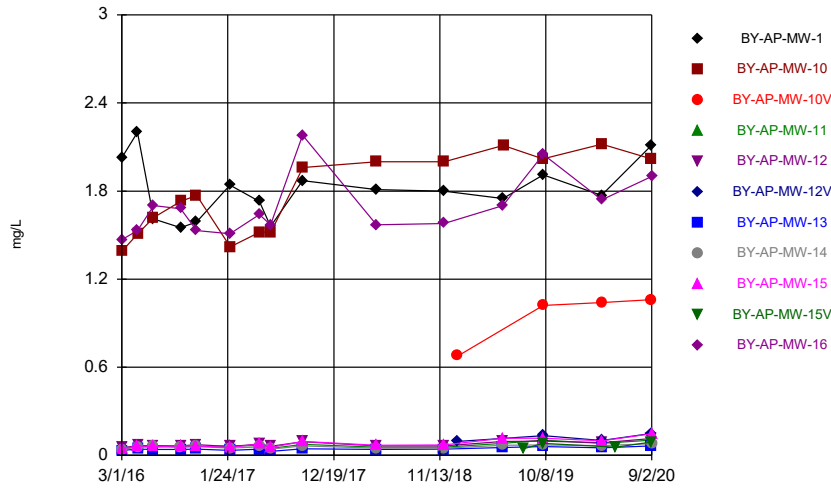
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



Constituent: Beryllium Analysis Run 12/11/2020 9:13 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

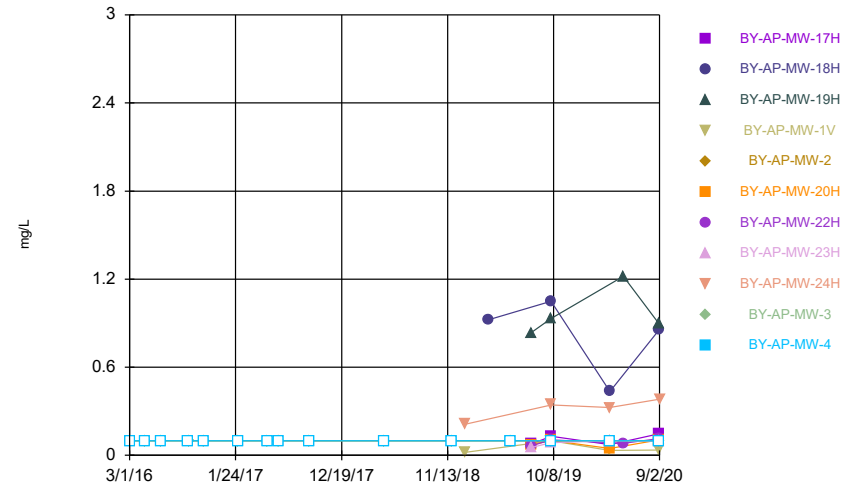
Time Series



Constituent: Boron Analysis Run 12/11/2020 9:13 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Hollow symbols indicate censored values.

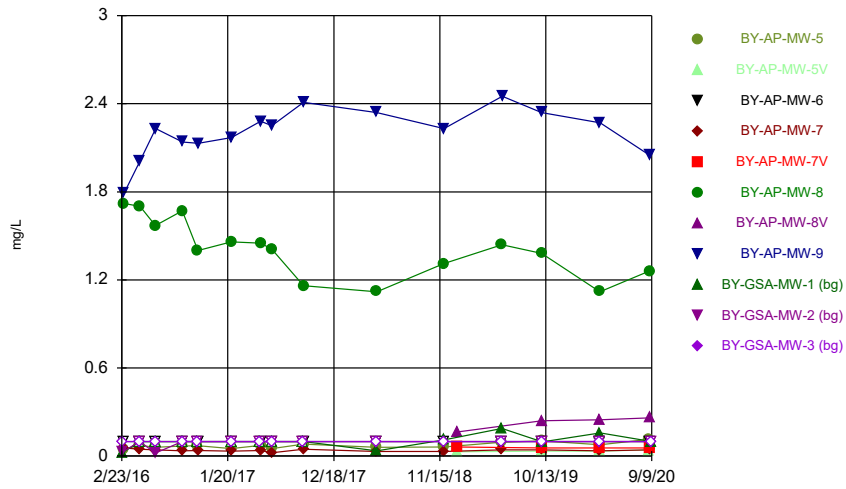
Time Series



Constituent: Boron Analysis Run 12/11/2020 9:13 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Hollow symbols indicate censored values.

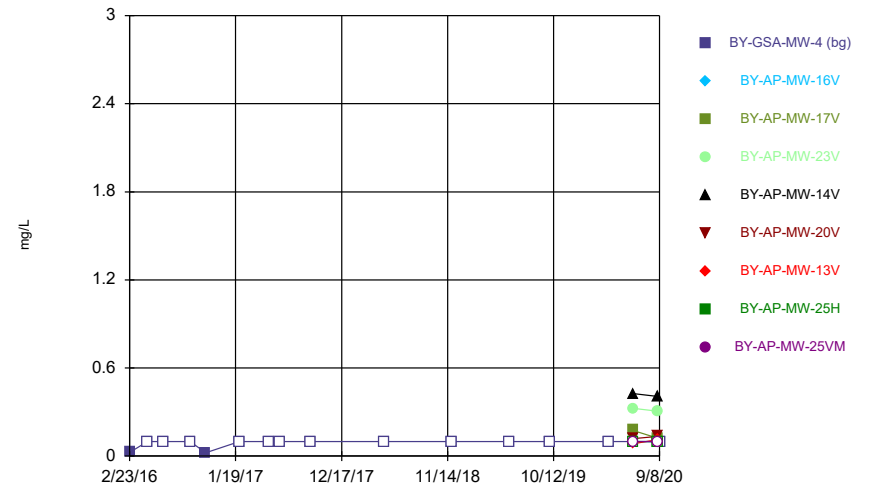
Time Series



Constituent: Boron Analysis Run 12/11/2020 9:13 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

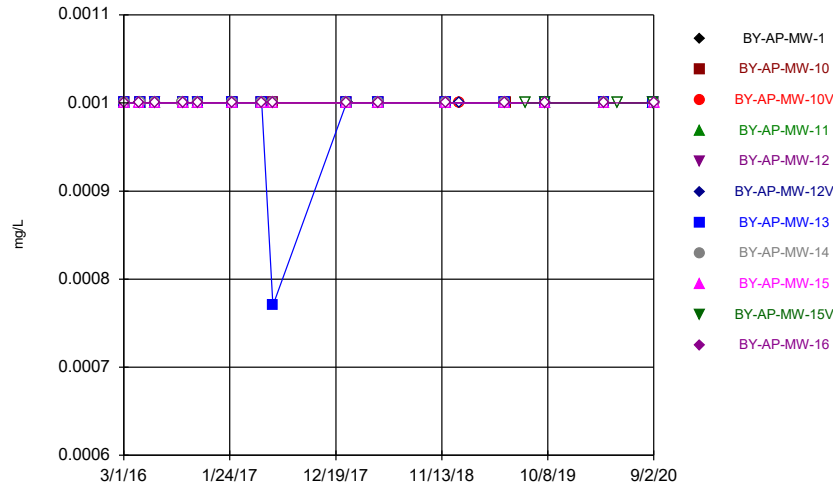
Hollow symbols indicate censored values.

Time Series



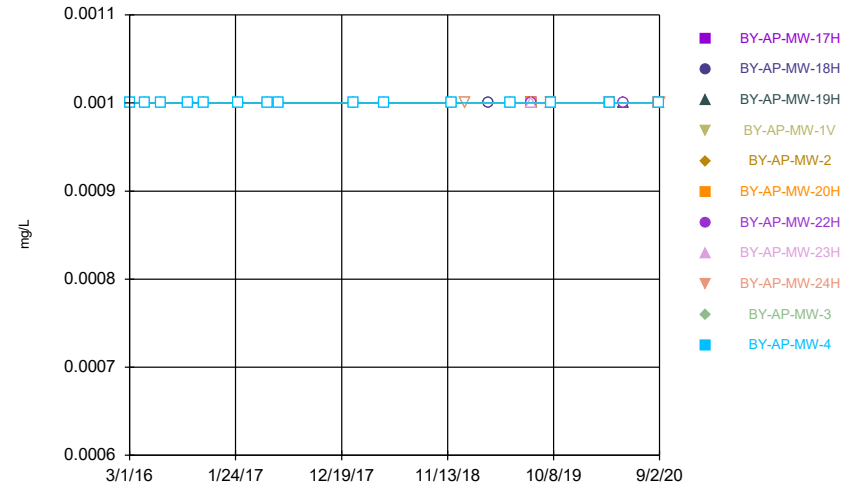
Constituent: Boron Analysis Run 12/11/2020 9:13 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



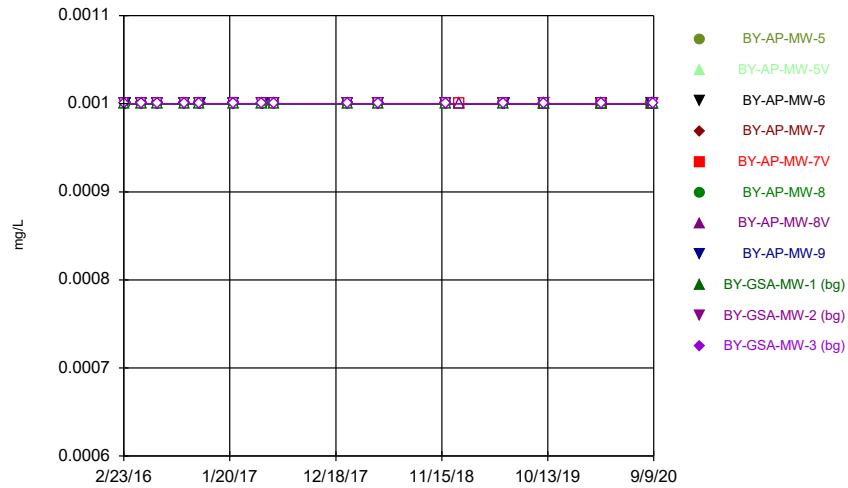
Constituent: Cadmium Analysis Run 12/11/2020 9:13 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



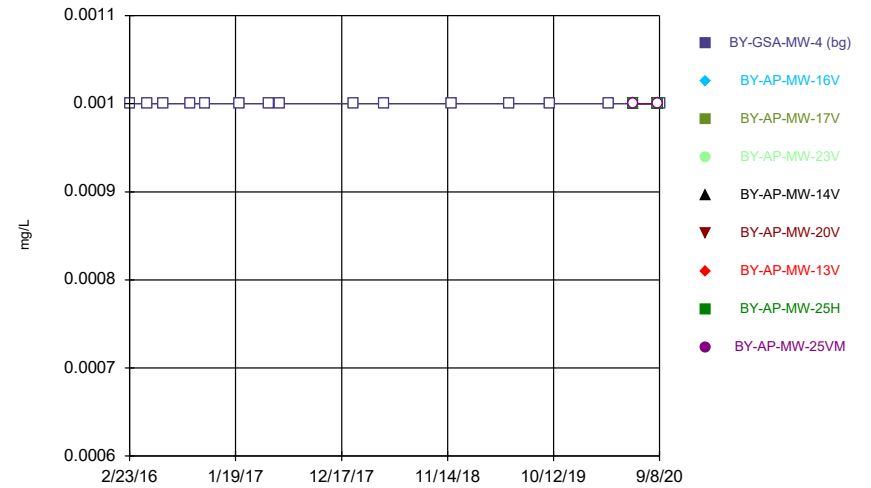
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



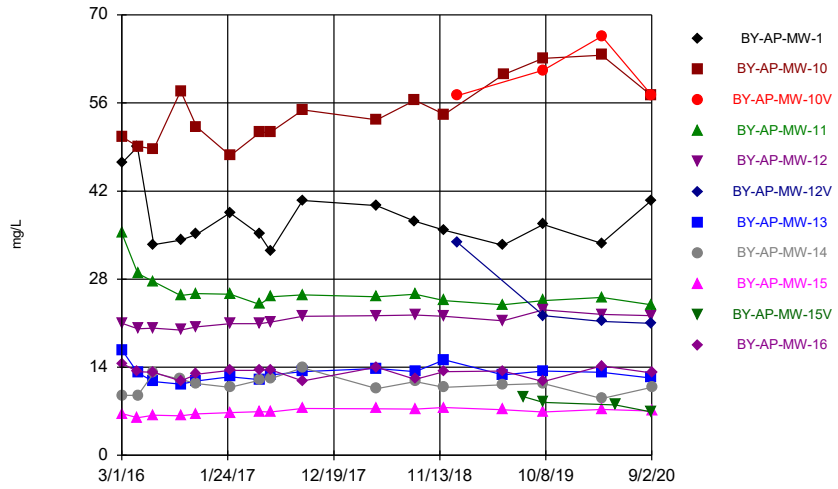
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



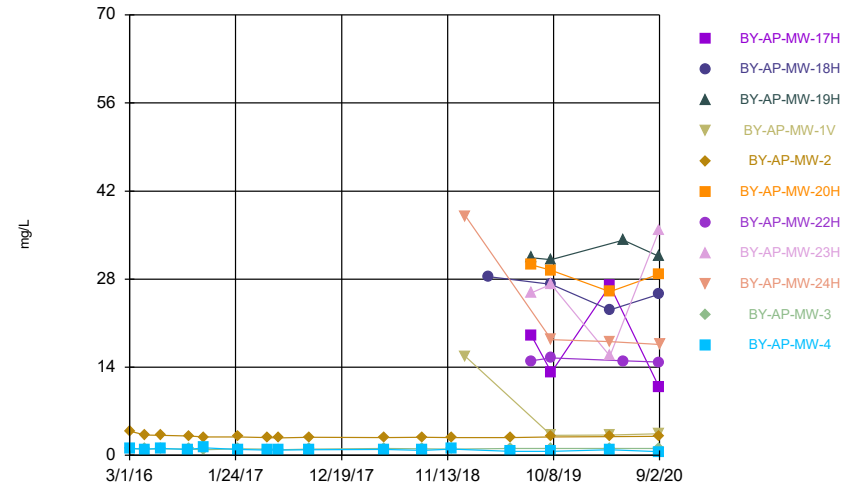
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



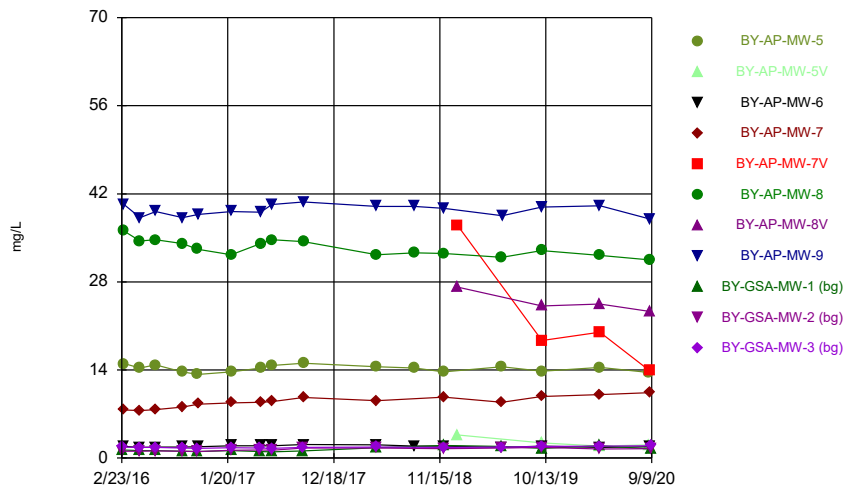
Constituent: Calcium Analysis Run 12/11/2020 9:13 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



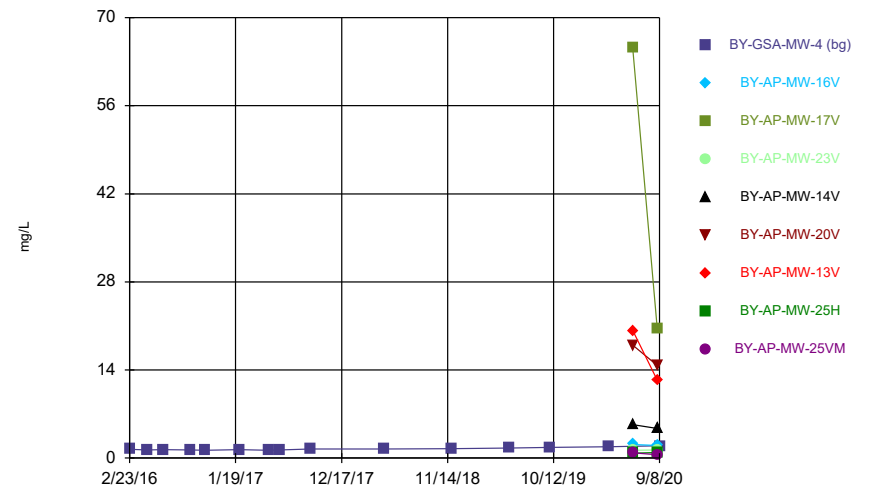
Constituent: Calcium Analysis Run 12/11/2020 9:13 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



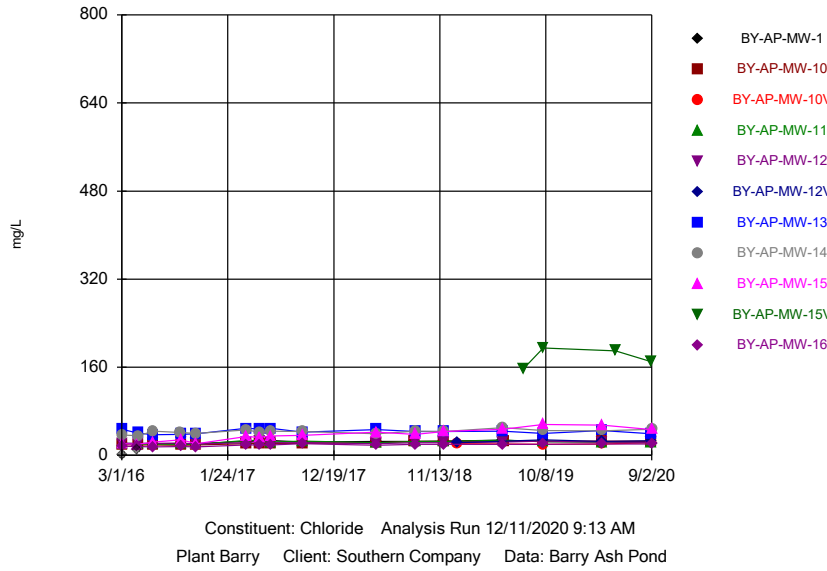
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series

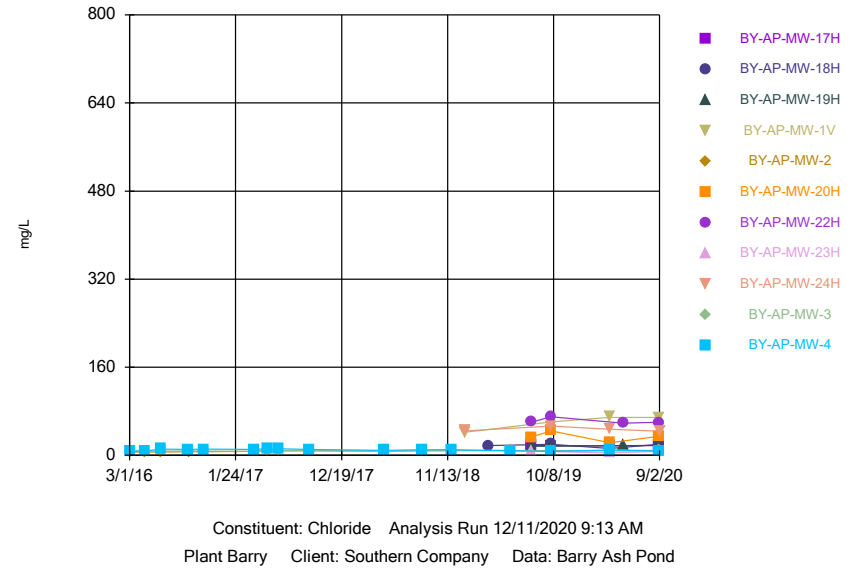


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 Plant Barry Client: Southern Company Data: Barry Ash Pond

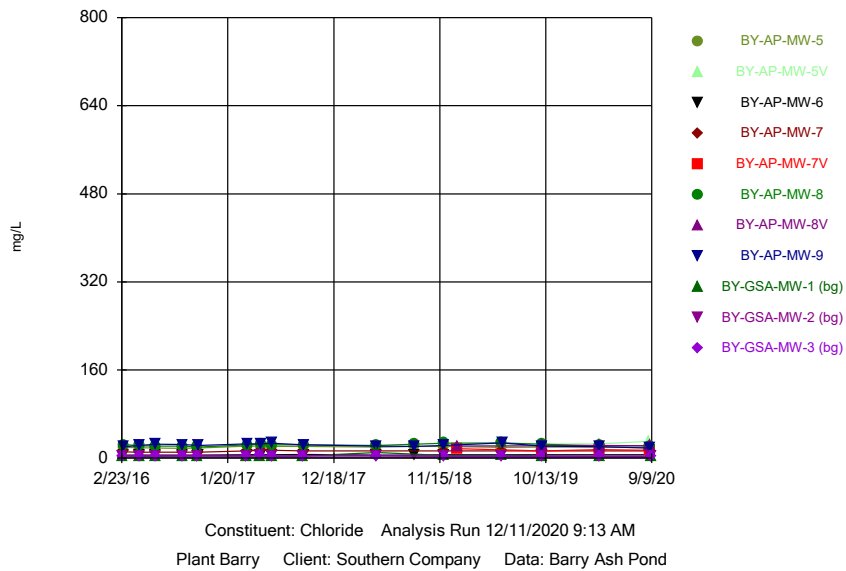
Time Series



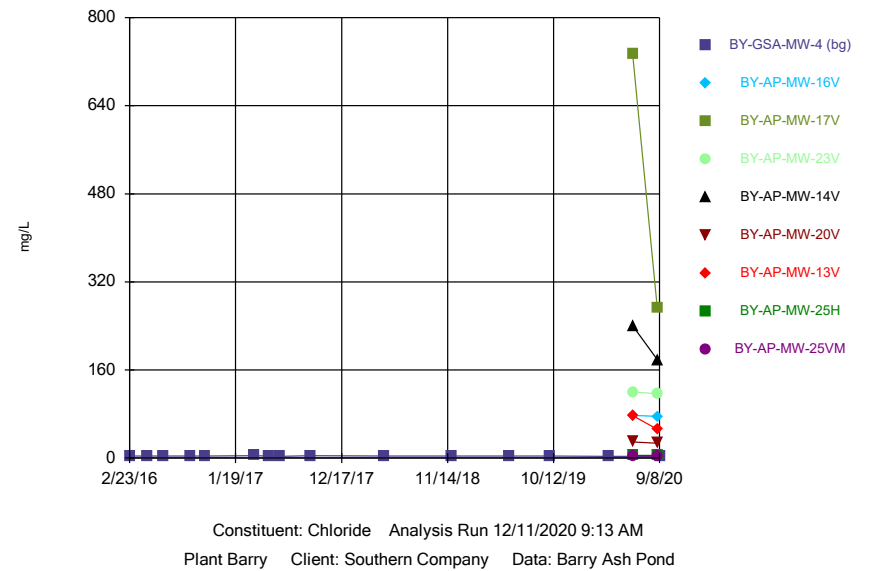
Time Series



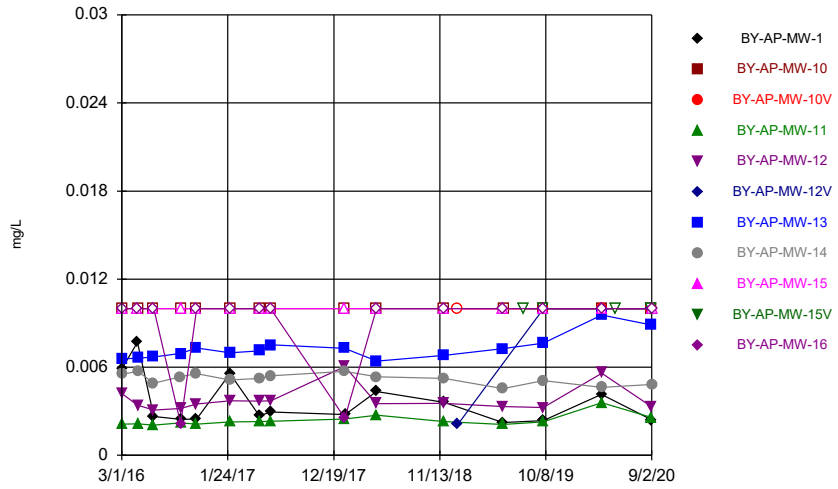
Time Series



Time Series

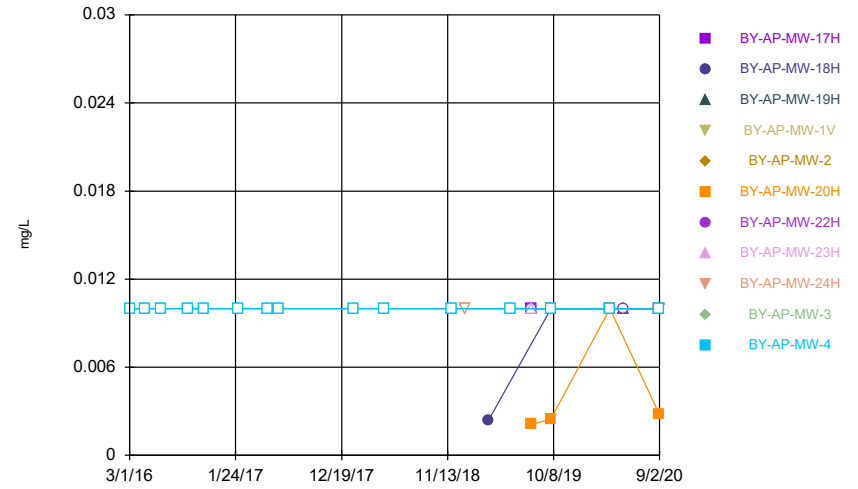


Time Series



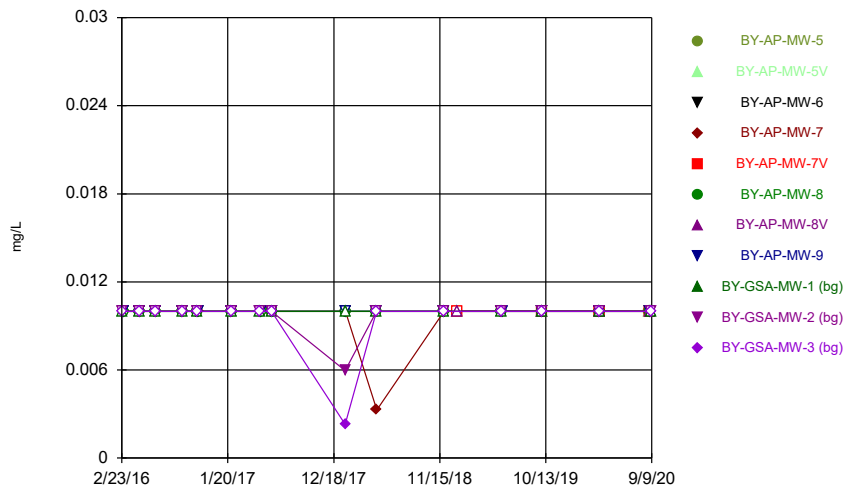
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



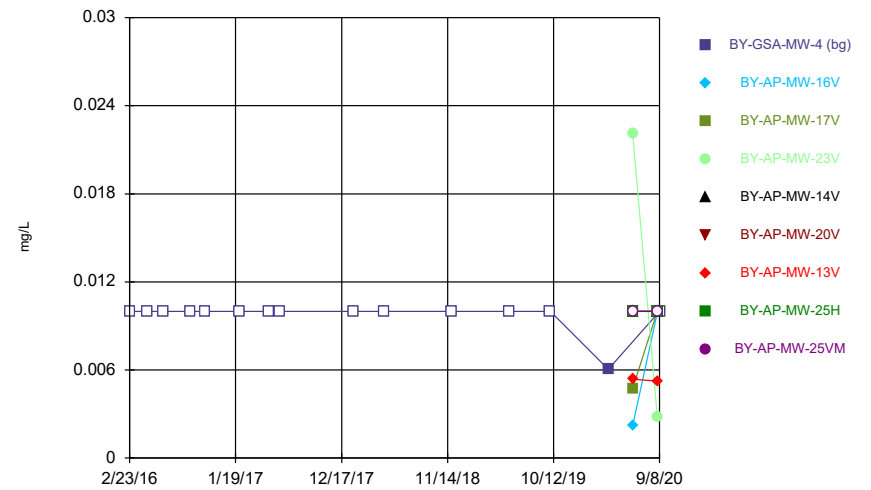
Constituent: Chromium Analysis Run 12/11/2020 9:13 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



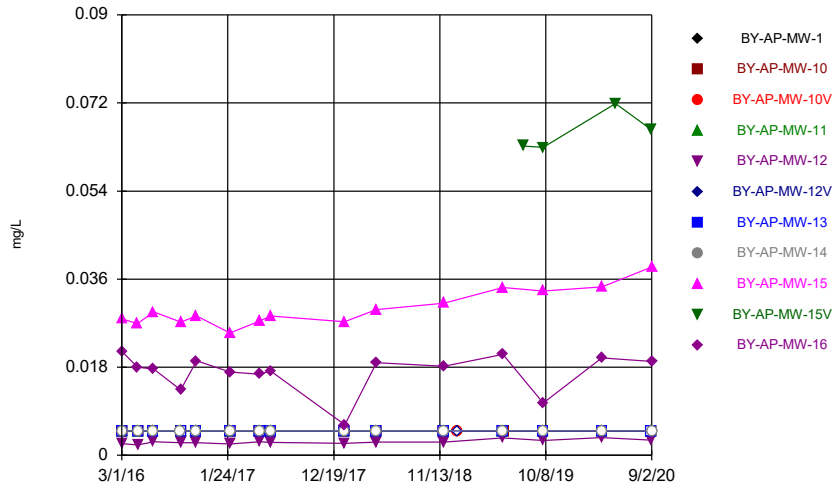
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



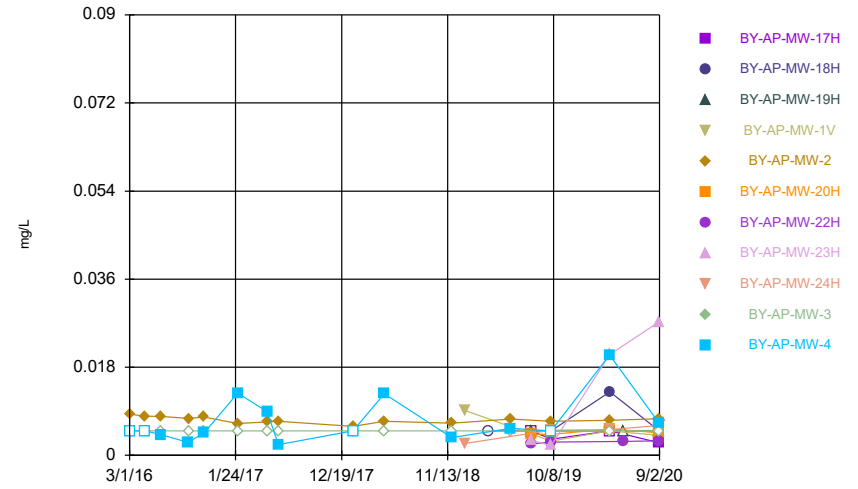
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



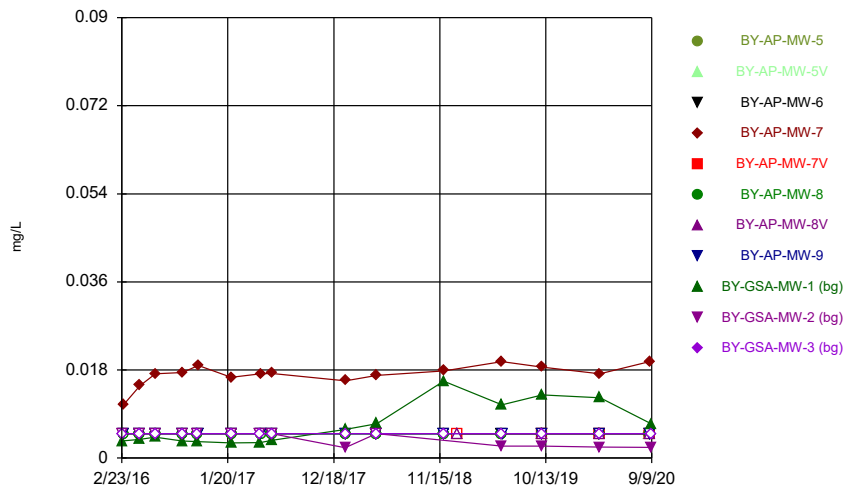
Constituent: Cobalt Analysis Run 12/11/2020 9:13 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



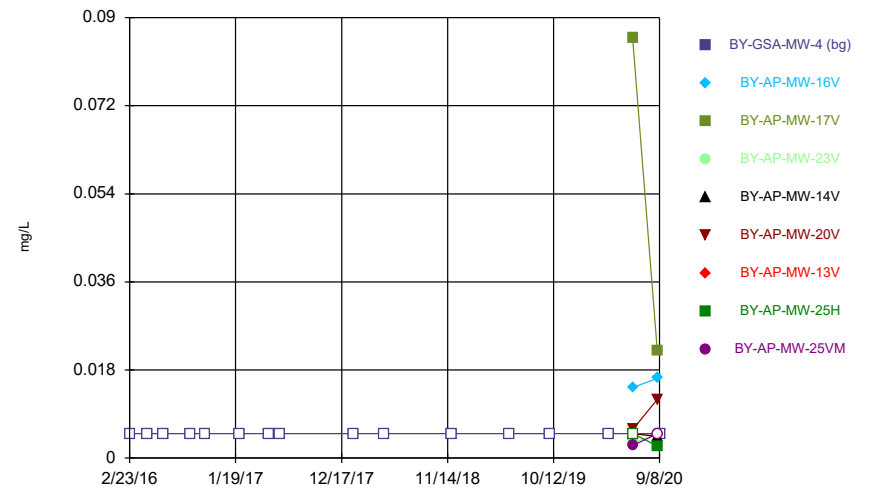
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



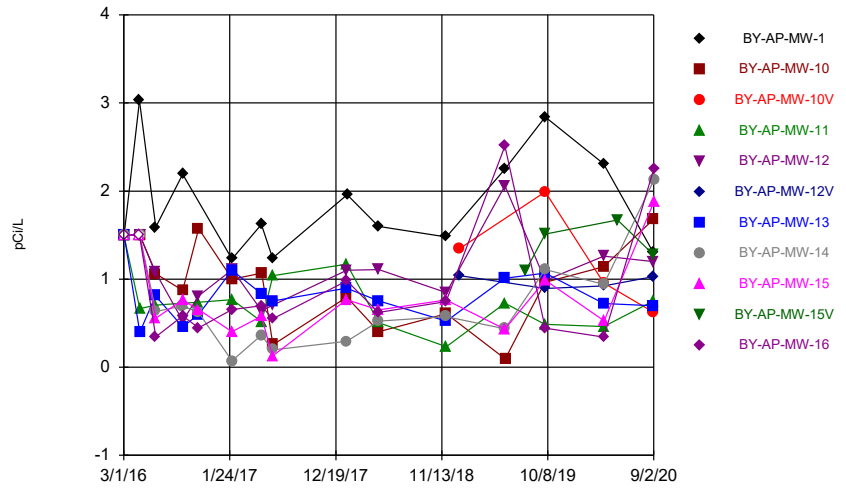
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



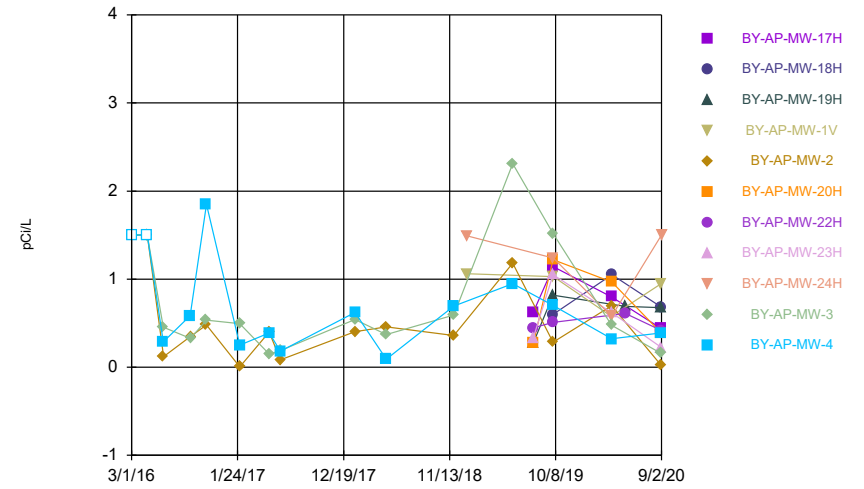
Constituent: Cobalt Analysis Run 12/11/2020 9:14 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



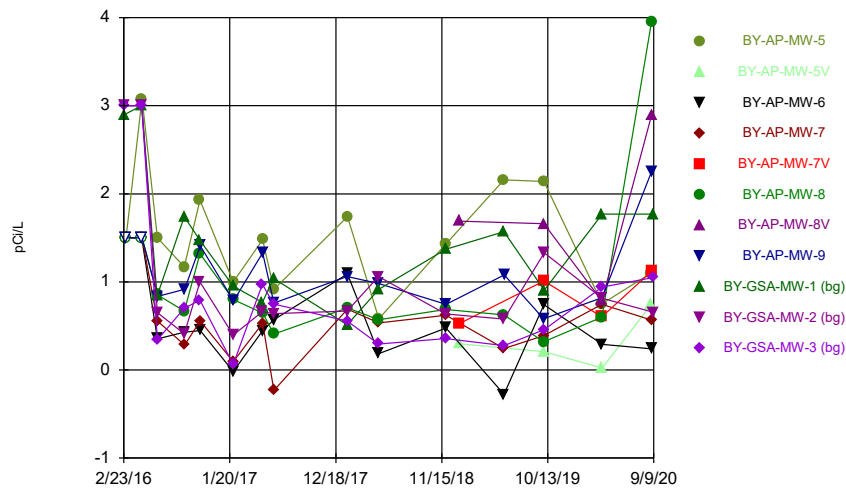
Constituent: Combined Radium 226 + 228 Analysis Run 12/11/2020 9:14 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



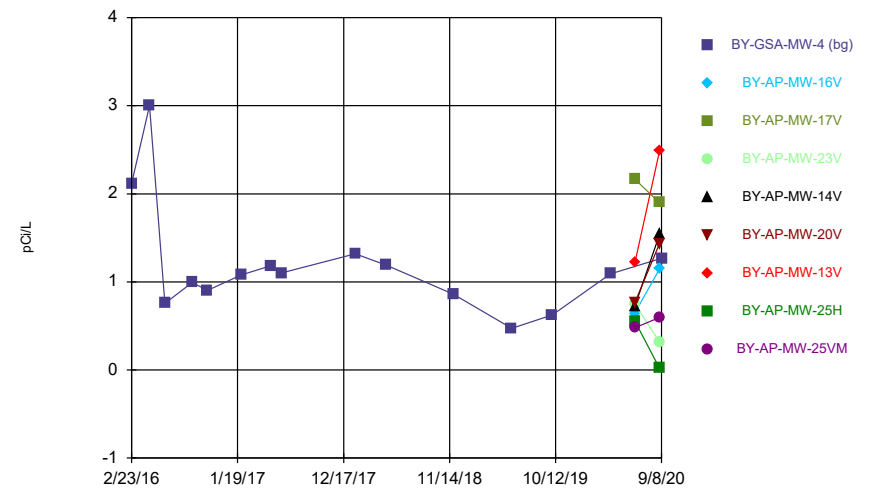
Constituent: Combined Radium 226 + 228 Analysis Run 12/11/2020 9:14 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



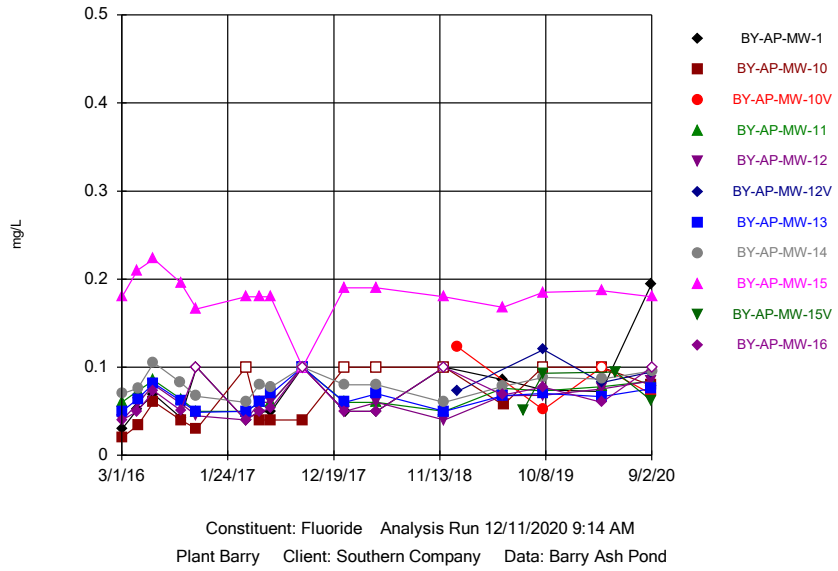
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series

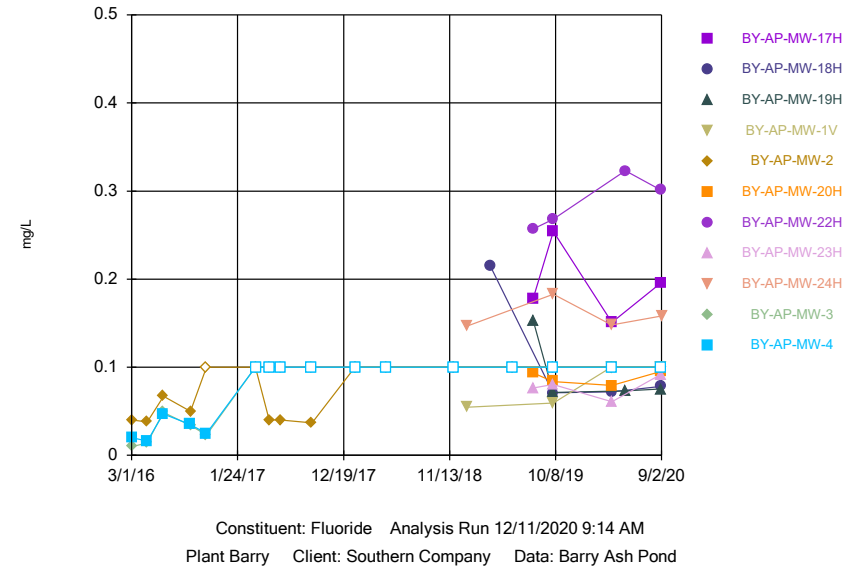


Constituent: Combined Radium 226 + 228 Analysis Run 12/11/2020 9:14 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

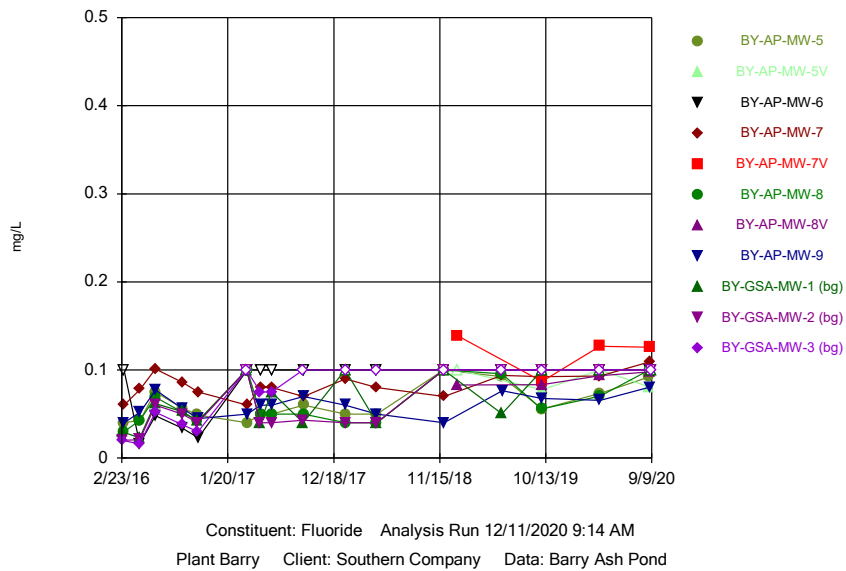
Time Series



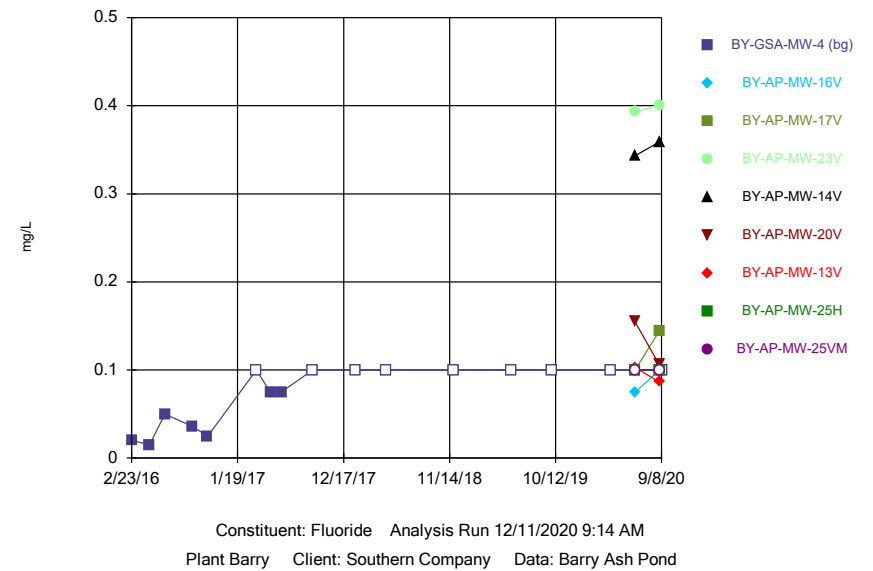
Time Series



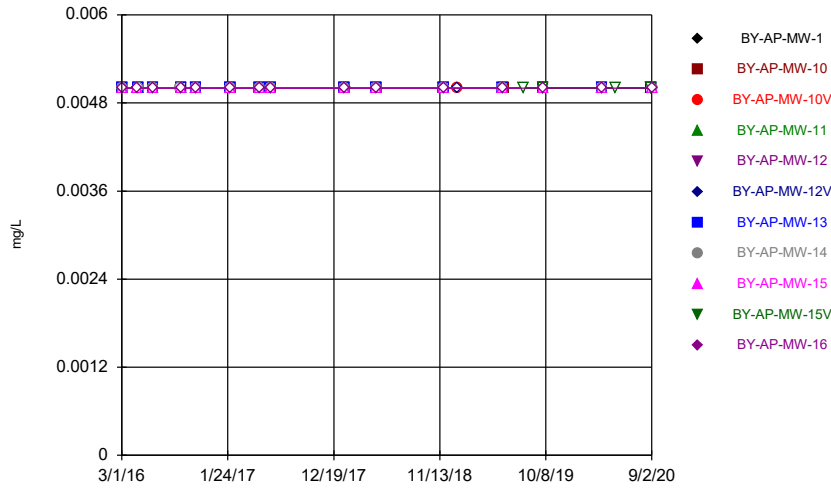
Time Series



Time Series

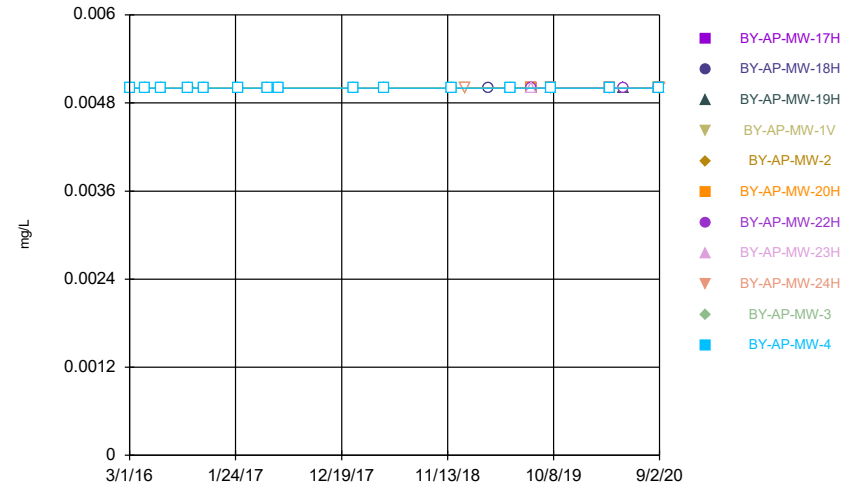


Time Series



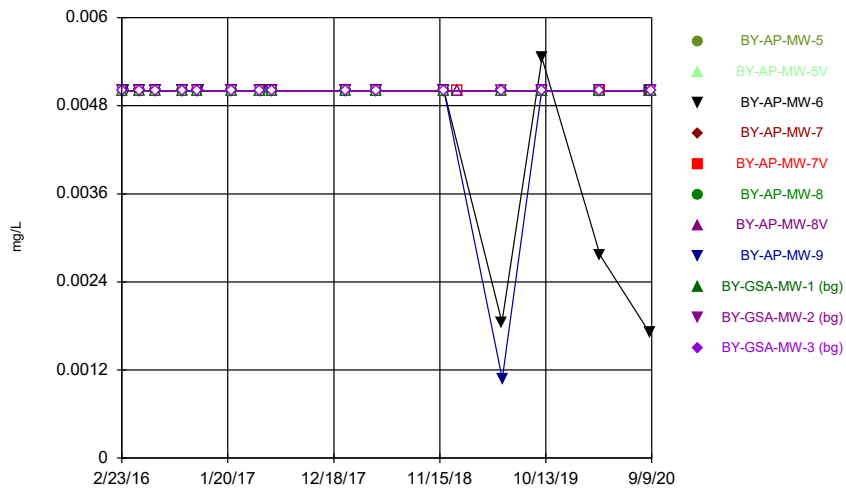
Constituent: Lead Analysis Run 12/11/2020 9:14 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



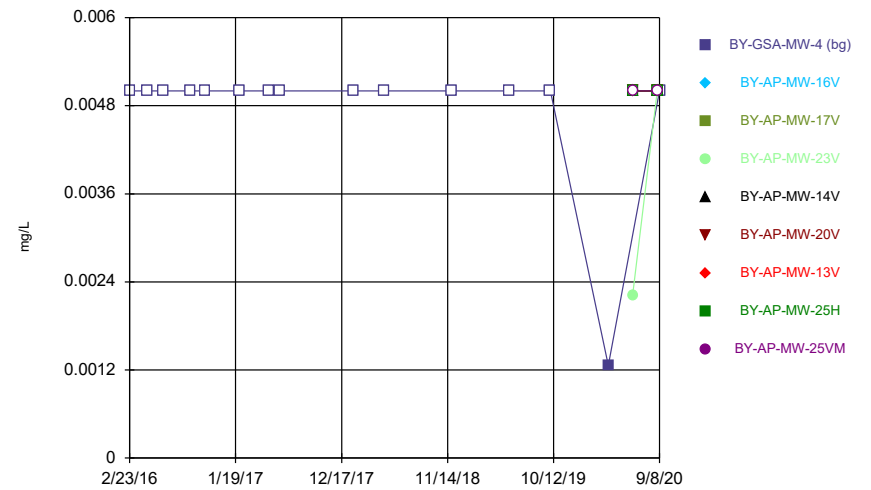
Constituent: Lead Analysis Run 12/11/2020 9:14 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



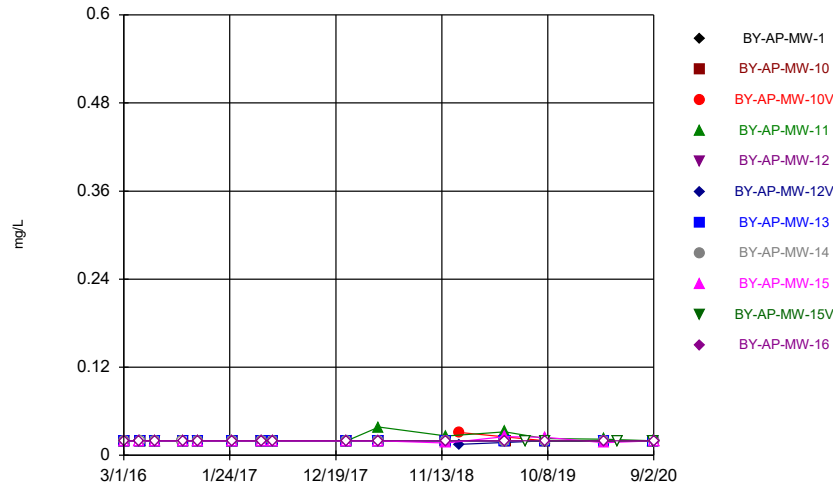
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



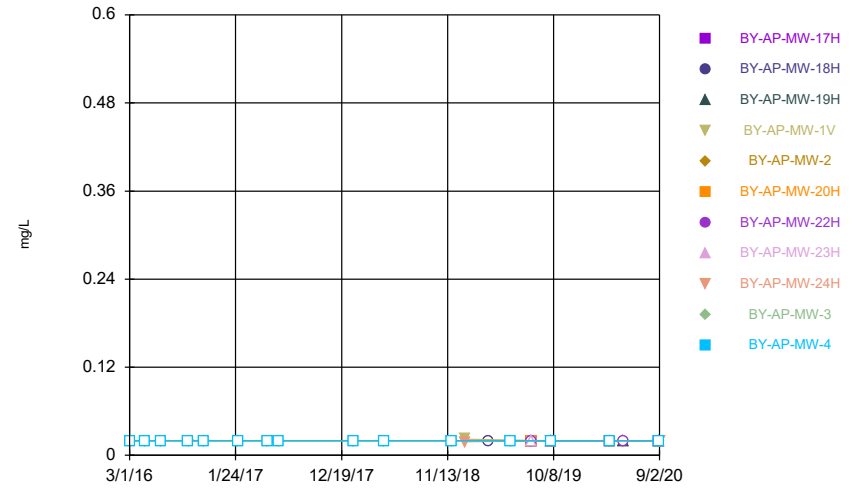
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



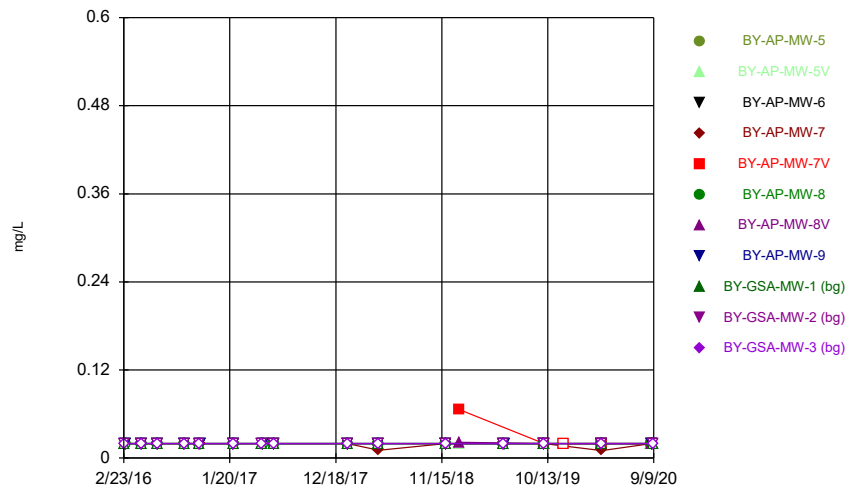
Constituent: Lithium Analysis Run 12/11/2020 9:14 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



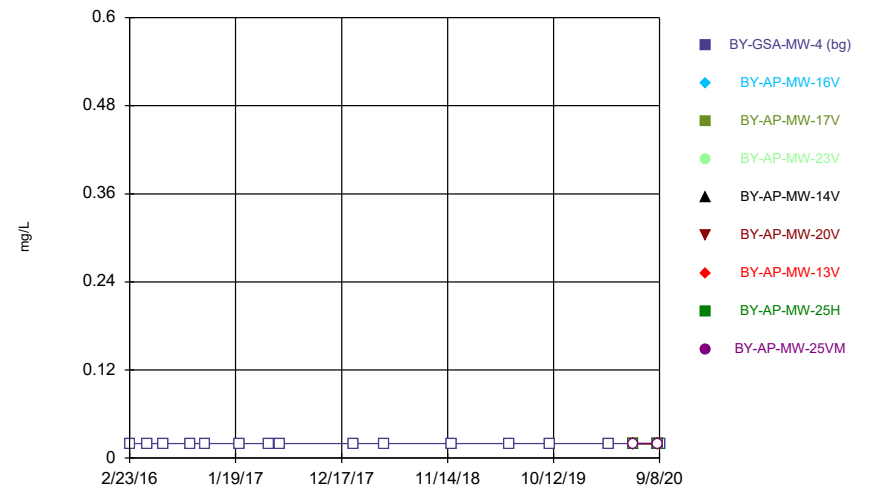
Constituent: Lithium Analysis Run 12/11/2020 9:14 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



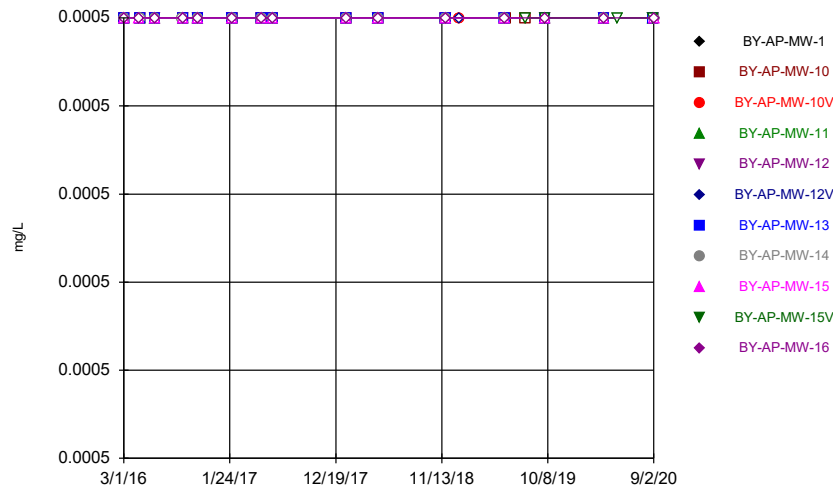
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



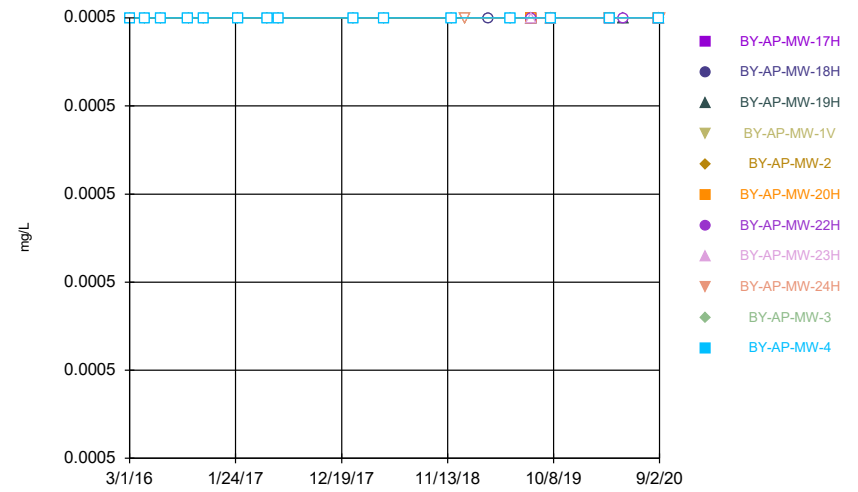
Constituent: Lithium Analysis Run 12/11/2020 9:14 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



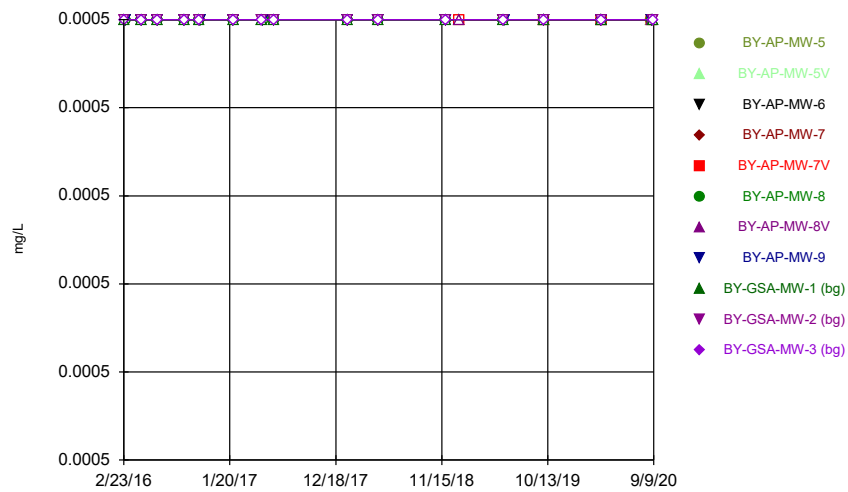
Constituent: Mercury Analysis Run 12/11/2020 9:14 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



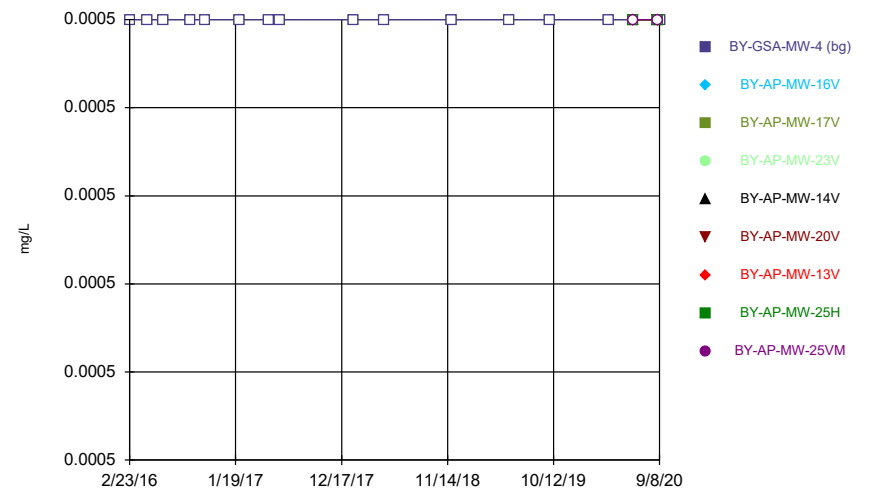
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



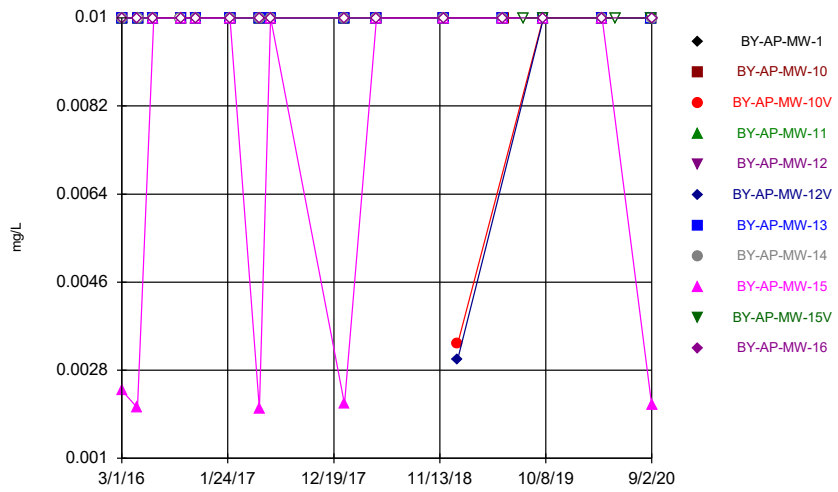
Constituent: Mercury Analysis Run 12/11/2020 9:14 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



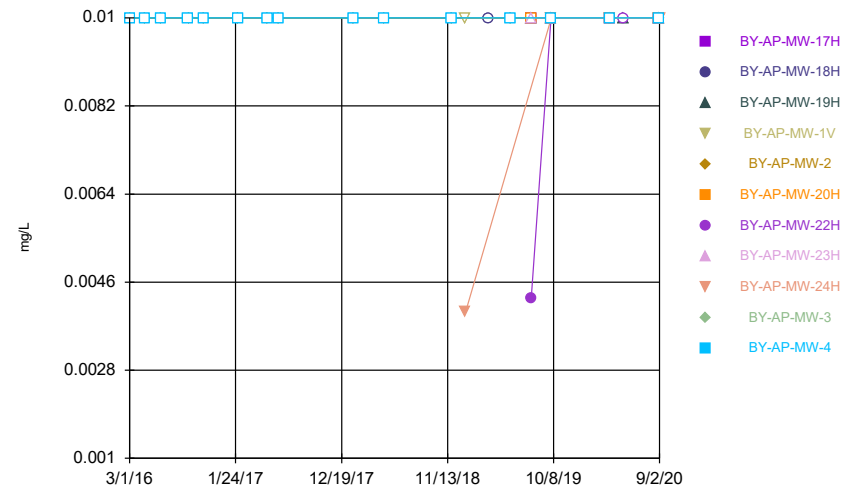
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



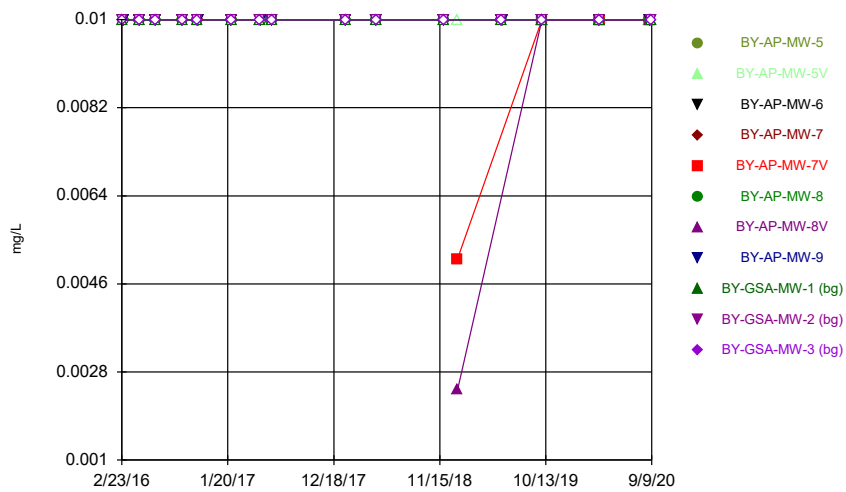
Constituent: Molybdenum Analysis Run 12/11/2020 9:14 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



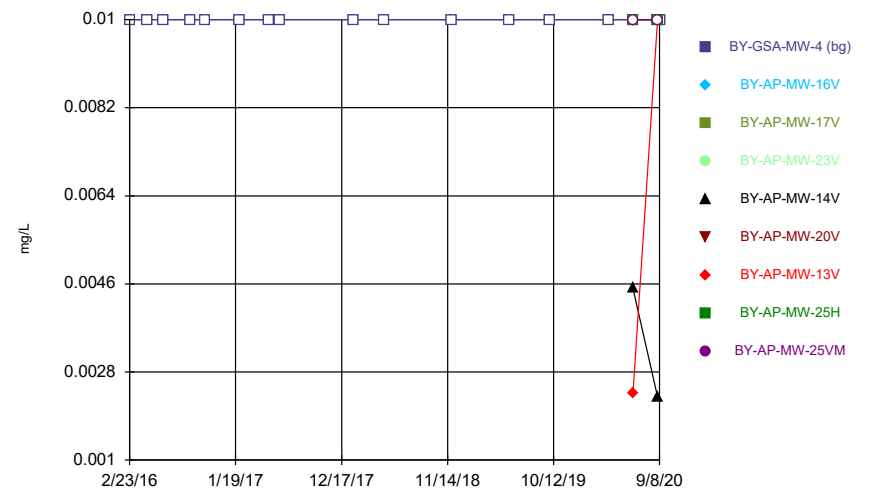
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



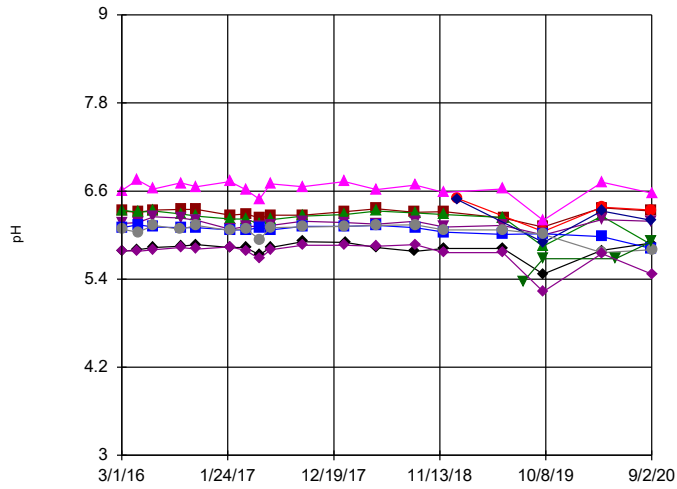
Constituent: Molybdenum Analysis Run 12/11/2020 9:14 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



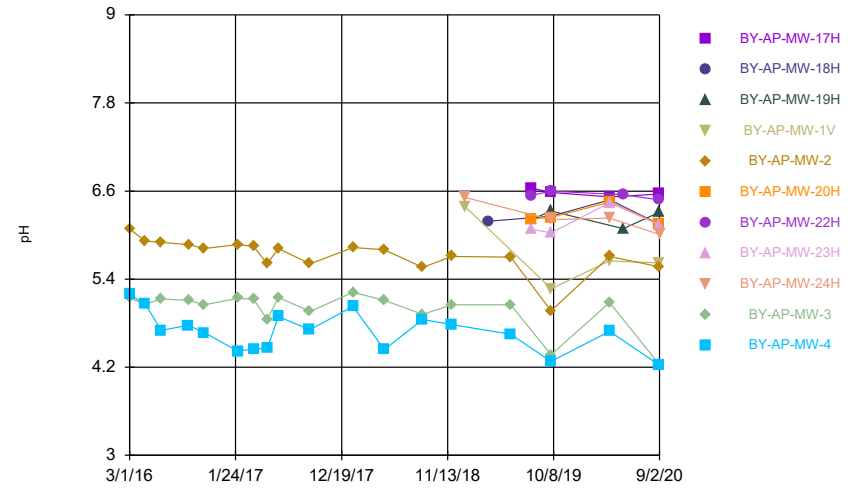
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



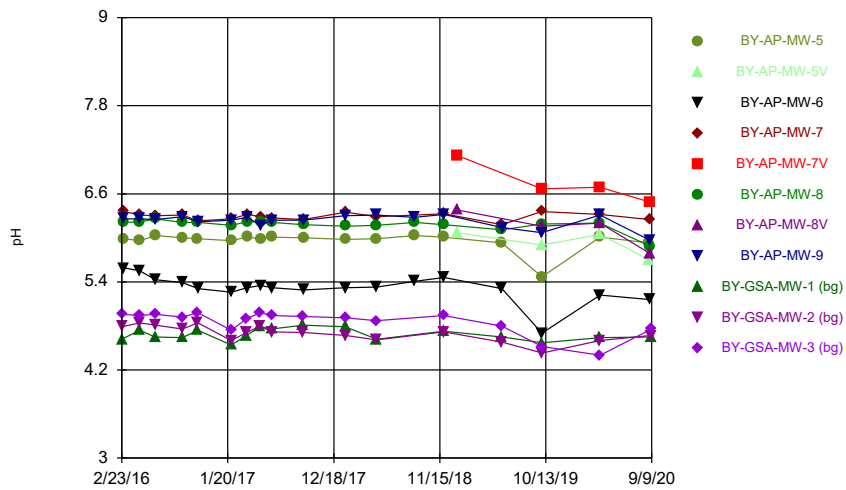
Constituent: pH Analysis Run 12/11/2020 9:14 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



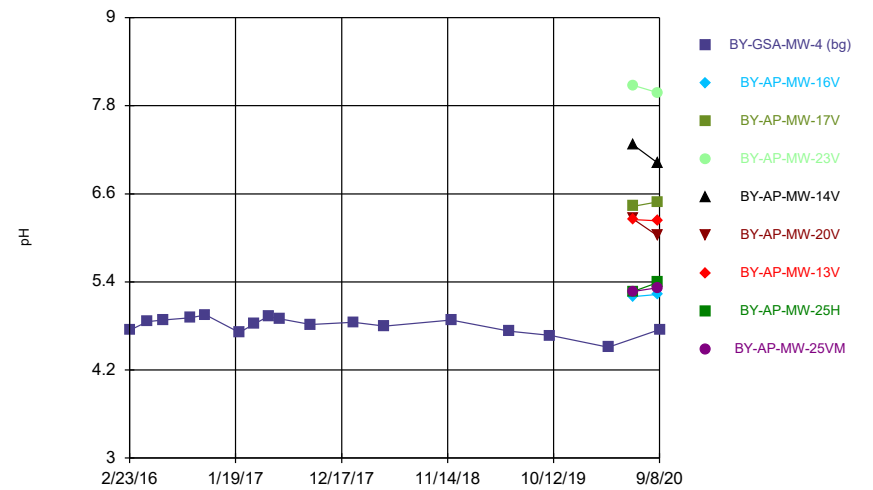
Constituent: pH Analysis Run 12/11/2020 9:14 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



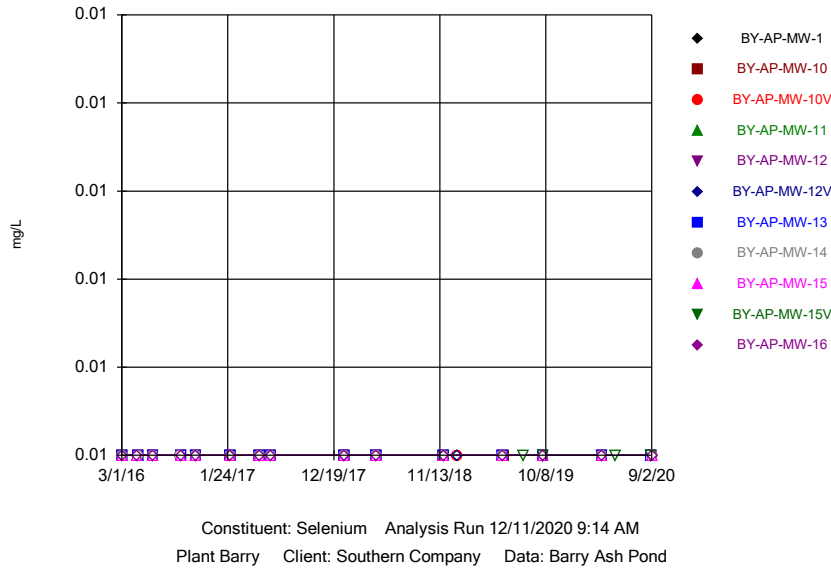
Constituent: pH Analysis Run 12/11/2020 9:14 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series

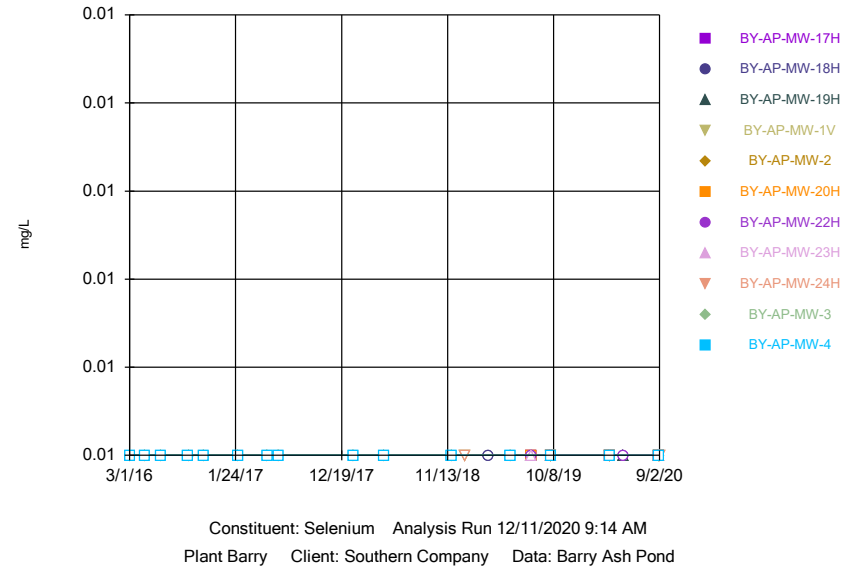


Constituent: pH Analysis Run 12/11/2020 9:14 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

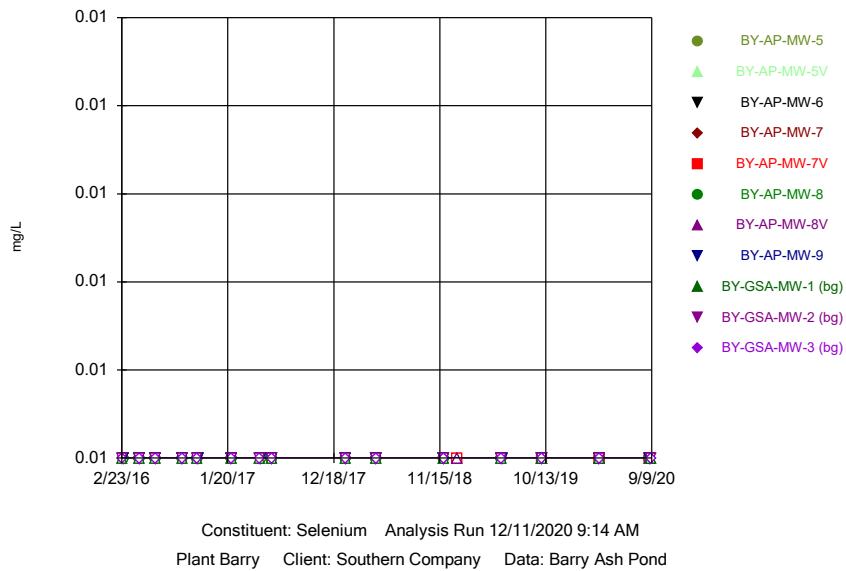
Time Series



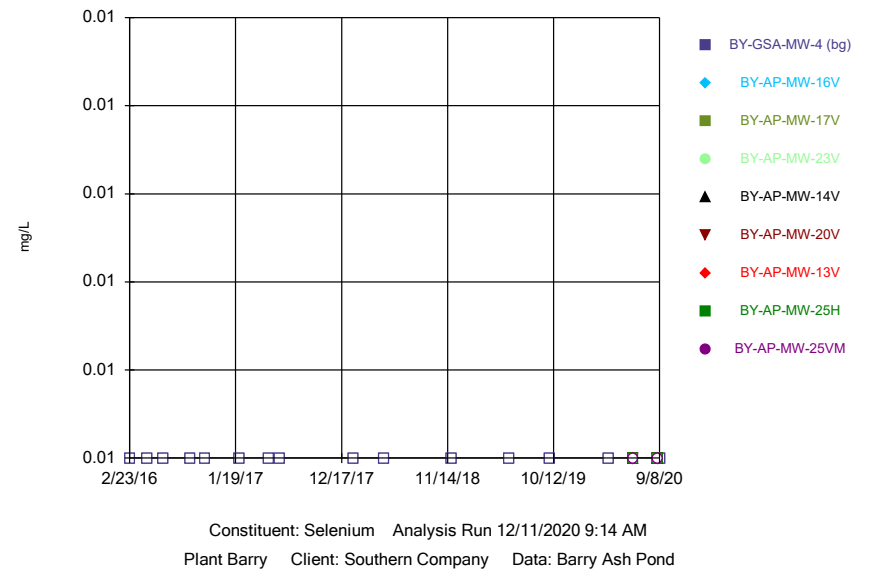
Time Series



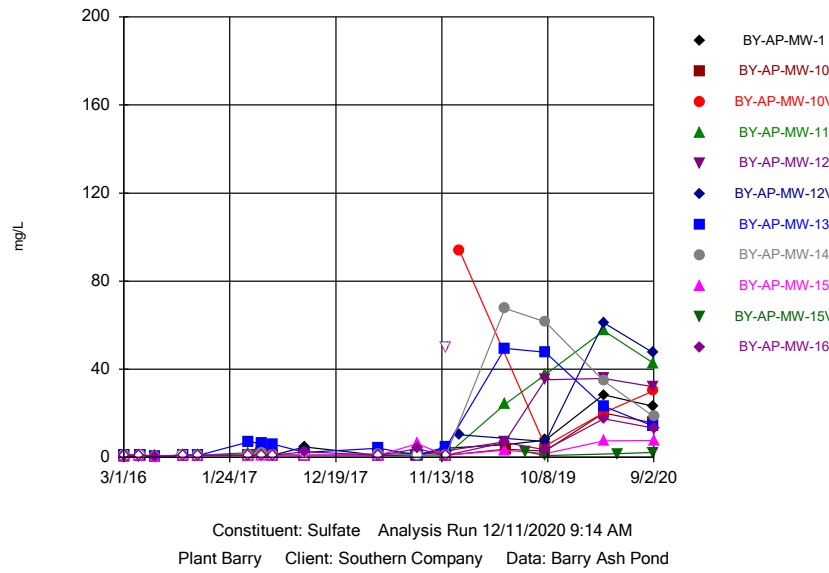
Time Series



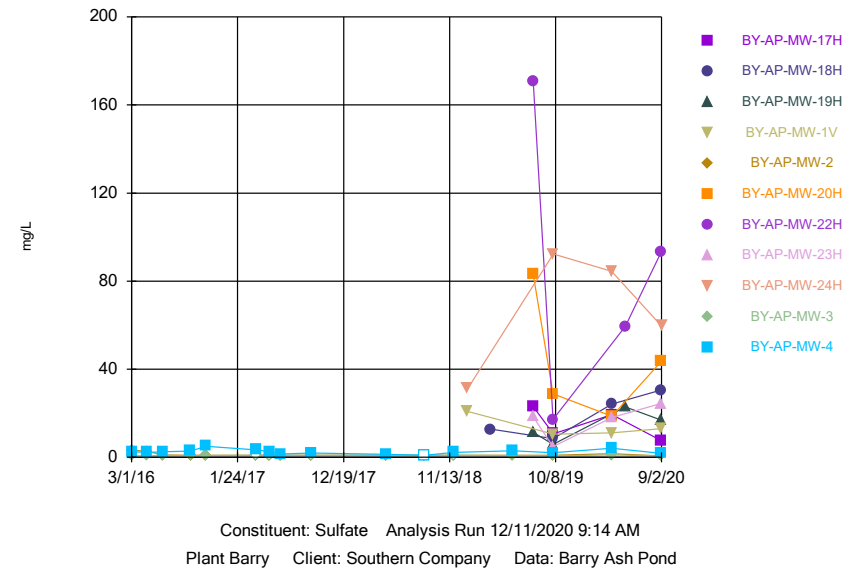
Time Series



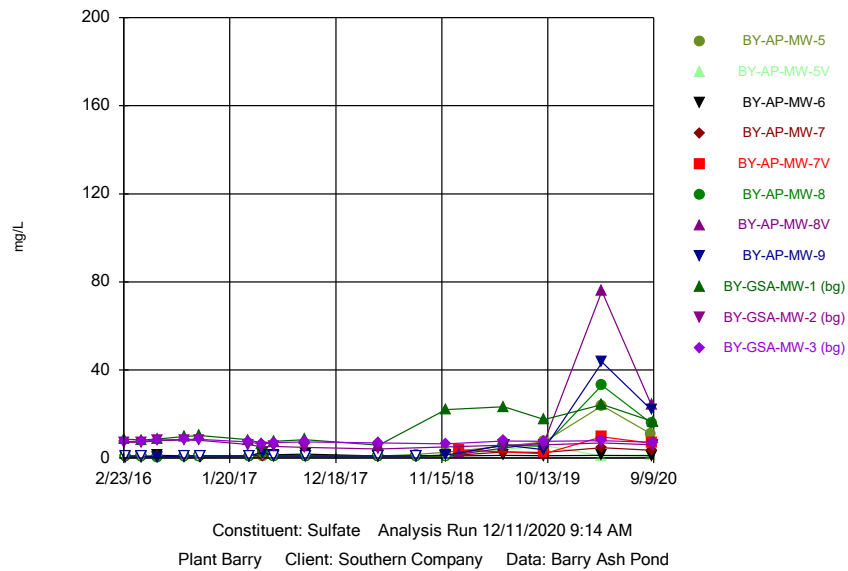
Time Series



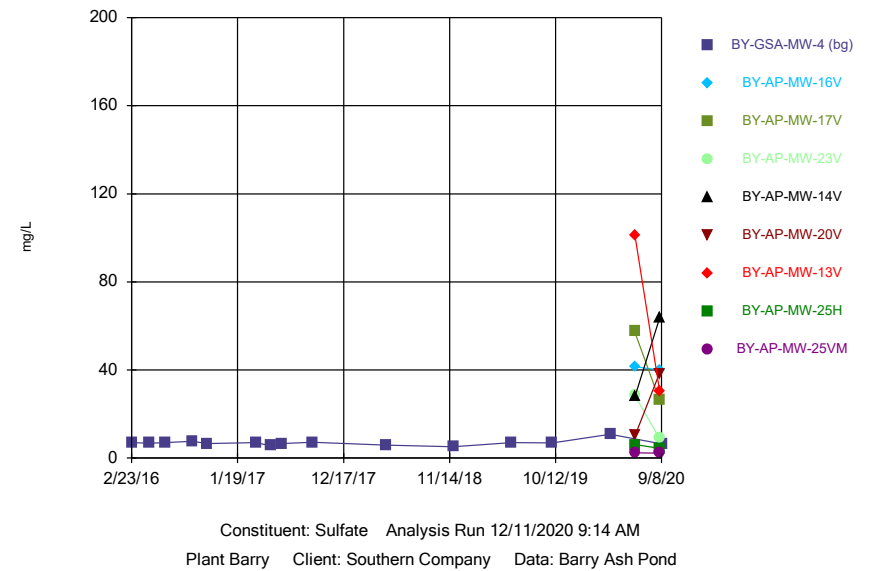
Time Series



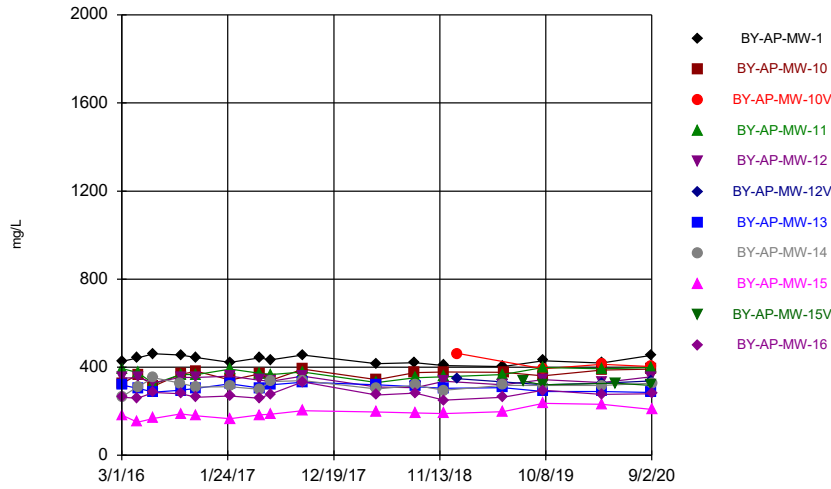
Time Series



Time Series

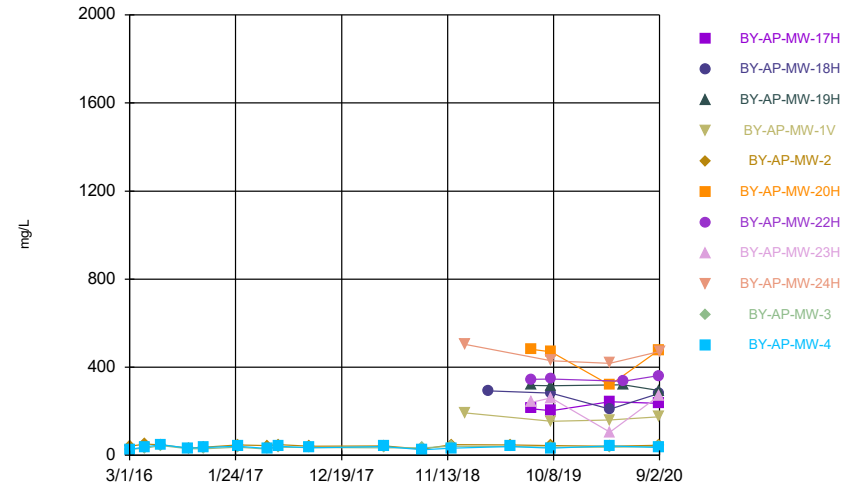


Time Series



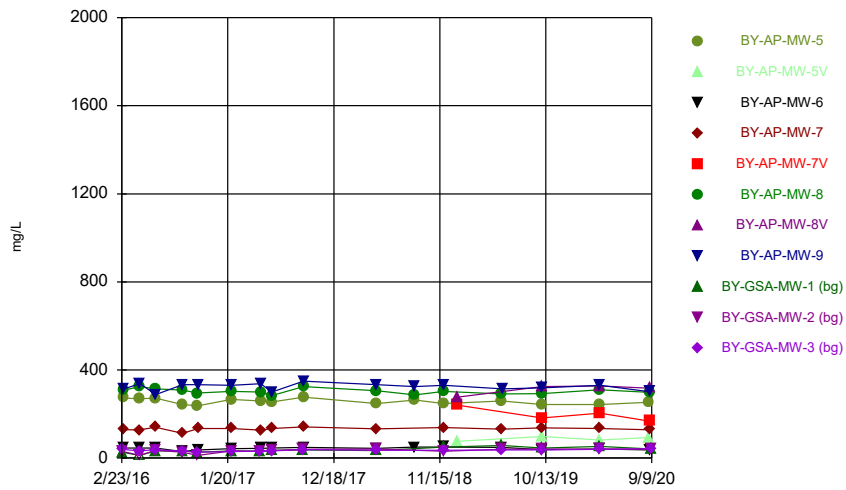
Constituent: TDS Analysis Run 12/11/2020 9:14 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



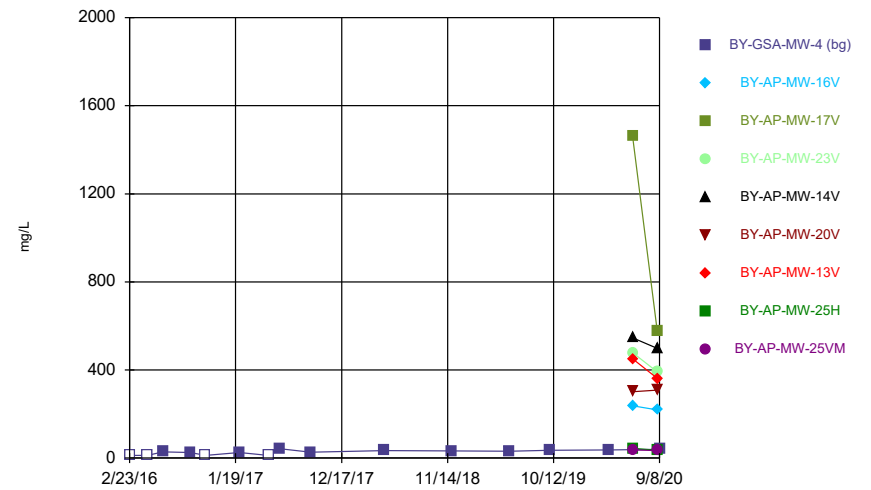
Constituent: TDS Analysis Run 12/11/2020 9:14 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



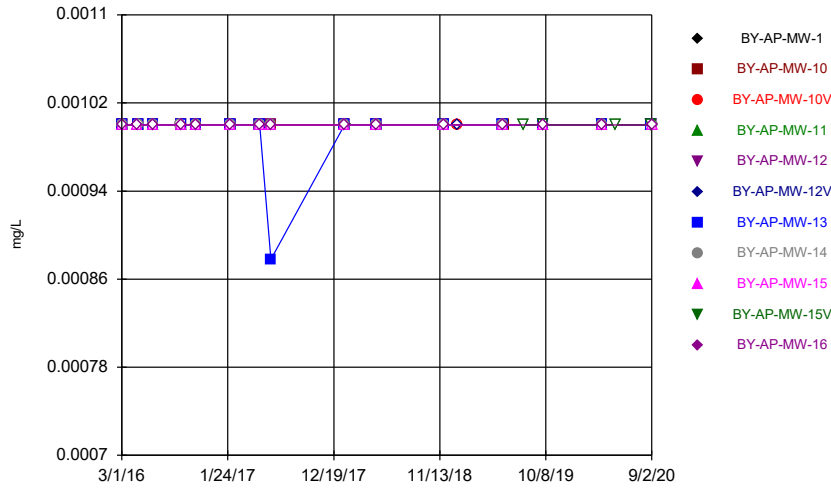
Constituent: TDS Analysis Run 12/11/2020 9:14 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



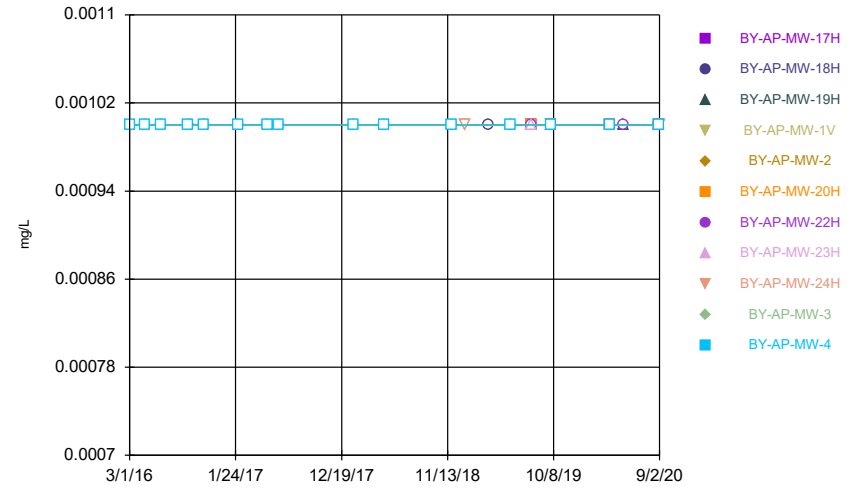
Constituent: TDS Analysis Run 12/11/2020 9:14 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



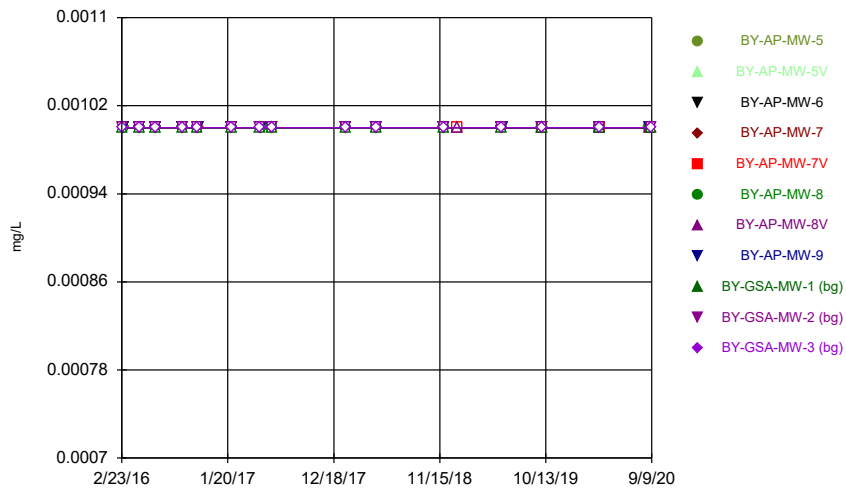
Constituent: Thallium Analysis Run 12/11/2020 9:14 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



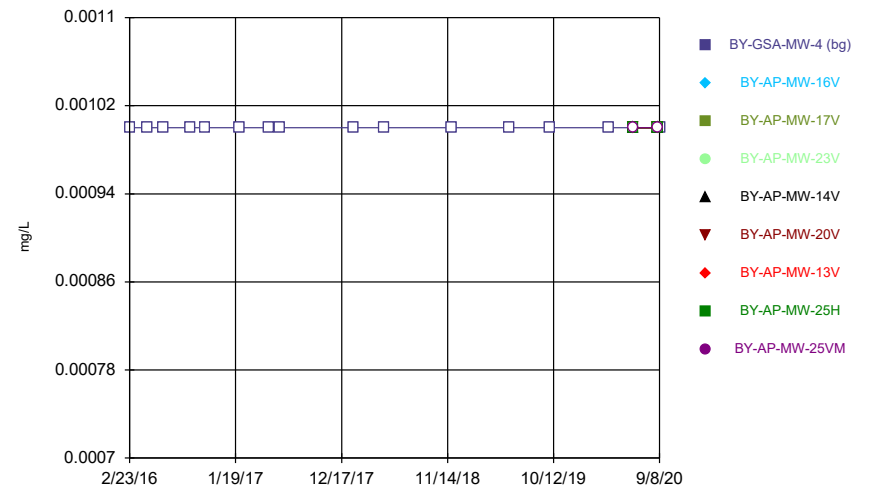
Constituent: Thallium Analysis Run 12/11/2020 9:15 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



Constituent: Thallium Analysis Run 12/11/2020 9:15 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



Constituent: Thallium Analysis Run 12/11/2020 9:15 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/11/2020 9:15 AM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-14	BY-AP-MW-15
3/1/2016		<0.003		<0.003					
3/2/2016	<0.003				<0.003		<0.003	<0.003	<0.003
4/19/2016	<0.003								<0.003
4/20/2016		<0.003		<0.003	<0.003		<0.003	<0.003	
6/8/2016	<0.003	<0.003		<0.003	<0.003		0.00111 (J)	<0.003	<0.003
8/30/2016								<0.003	
8/31/2016	<0.003	<0.003		<0.003	<0.003		<0.003		<0.003
10/18/2016								<0.003	
10/19/2016	<0.003	<0.003		<0.003	<0.003		<0.003		<0.003
1/31/2017	0.000687 (J)						0.000834 (J)	0.00086 (J)	0.000746 (J)
2/1/2017		0.000743 (J)		0.000812 (J)	0.000838 (J)				
5/2/2017	<0.003							<0.003	<0.003
5/3/2017		<0.003		<0.003	<0.003		<0.003		
6/6/2017	<0.003							<0.003	<0.003
6/7/2017		<0.003		<0.003	<0.003		0.000857 (J)		
1/22/2018							<0.003		<0.003
1/23/2018		<0.003		<0.003	<0.003			<0.003	
1/24/2018	<0.003								
5/1/2018	<0.003								<0.003
5/2/2018		<0.003		<0.003	<0.003		<0.003	<0.003	
11/27/2018								<0.003	<0.003
11/28/2018	<0.003	<0.003		<0.003	<0.003		<0.003		
1/8/2019			0.000965 (J)			0.00117 (J)			
5/29/2019	<0.003			<0.003	<0.003		<0.003	<0.003	<0.003
5/30/2019		<0.003							
7/31/2019									
9/30/2019		<0.003		<0.003					
10/1/2019	<0.003		<0.003		<0.003		<0.003	<0.003	<0.003
10/2/2019						<0.003			
3/30/2020	<0.003								
3/31/2020		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	
4/1/2020									<0.003
5/12/2020									
9/1/2020	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003		
9/2/2020								<0.003	<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/11/2020 9:15 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16
3/1/2016		
3/2/2016		<0.003
4/19/2016		<0.003
4/20/2016		
6/8/2016		<0.003
8/30/2016		
8/31/2016		<0.003
10/18/2016		
10/19/2016		<0.003
1/31/2017		0.000769 (J)
2/1/2017		
5/2/2017		<0.003
5/3/2017		
6/6/2017		<0.003
6/7/2017		
1/22/2018		
1/23/2018		<0.003
1/24/2018		
5/1/2018		<0.003
5/2/2018		
11/27/2018		<0.003
11/28/2018		
1/8/2019		
5/29/2019		<0.003
5/30/2019		
7/31/2019	0.00094 (J)	
9/30/2019		
10/1/2019	<0.003	<0.003
10/2/2019		
3/30/2020		
3/31/2020		<0.003
4/1/2020		
5/12/2020	<0.003	
9/1/2020	<0.003	
9/2/2020		<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/11/2020 9:15 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-3	BY-AP-MW-4
3/1/2016		<0.003
3/2/2016	<0.003	
4/19/2016	<0.003	<0.003
6/7/2016	0.000606 (J)	0.000869 (J)
6/8/2016		
8/30/2016		<0.003
8/31/2016	<0.003	
10/19/2016	<0.003	<0.003
1/31/2017	0.000637 (J)	0.00086 (J)
5/2/2017	<0.003	<0.003
6/6/2017	<0.003	<0.003
1/24/2018	<0.003	<0.003
5/1/2018	<0.003	<0.003
11/27/2018	<0.003	<0.003
1/8/2019		
3/20/2019		
5/29/2019	<0.003	<0.003
7/31/2019		
10/1/2019	<0.003	<0.003
10/2/2019		
3/30/2020		
3/31/2020	<0.003	<0.003
4/1/2020		
5/12/2020		
8/31/2020		
9/1/2020	<0.003	<0.003
9/2/2020		

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/11/2020 9:15 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-GSA-MW-2 (bg)	BY-GSA-MW-3 (bg)
2/23/2016	<0.003	<0.003
3/1/2016		
4/19/2016	<0.003	<0.003
4/20/2016		
6/6/2016		
6/7/2016	<0.003	<0.003
6/8/2016		
8/30/2016	<0.003	<0.003
8/31/2016		
10/18/2016	<0.003	<0.003
10/19/2016		
1/31/2017	0.000898 (J)	0.000911 (J)
2/1/2017		
5/2/2017	<0.003	<0.003
5/3/2017		
6/6/2017	<0.003	<0.003
6/7/2017		
1/23/2018	<0.003	<0.003
1/24/2018		
5/1/2018	<0.003	<0.003
5/2/2018		
11/27/2018	<0.003	<0.003
11/28/2018		
1/8/2019		
1/9/2019		
5/29/2019	<0.003	<0.003
5/30/2019		
9/30/2019		
10/1/2019		
10/2/2019	<0.003	<0.003
3/30/2020		
3/31/2020	<0.003	<0.003
9/1/2020		
9/2/2020		
9/9/2020	<0.003	<0.003

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/11/2020 9:15 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-14	BY-AP-MW-15
3/1/2016		0.0264		0.01					
3/2/2016	0.076				0.0215		0.0115	0.0101	0.0128
4/19/2016	0.0973								0.0157
4/20/2016		0.0303		0.0127	0.0214		0.0123	0.0119	
6/8/2016	0.0605	0.0306		0.0136	0.0221		0.0121	0.0119	0.0168
8/30/2016								0.0127	
8/31/2016	0.0687	0.0304		0.0149	0.0223		0.0127		0.0168
10/18/2016								0.0136	
10/19/2016	0.0701	0.0314		0.0149	0.0227		0.0131		0.0178
1/31/2017	0.0669						0.0131	0.0124	0.0164
2/1/2017		0.0274		0.0151	0.0215				
5/2/2017	0.0672							0.0131	0.0172
5/3/2017		0.03		0.0155	0.0227		0.014		
6/6/2017	0.0527							0.0129	0.0158
6/7/2017		0.0303		0.0145	0.0211		0.0141		
1/22/2018							0.0149		0.0173
1/23/2018		0.0362		0.0154	0.0227			0.0148	
1/24/2018	0.07								
5/1/2018	0.0777								0.0181
5/2/2018		0.0433		0.0158	0.0239		0.0175	0.0156	
11/27/2018								0.0145	0.0158
11/28/2018	0.0677	0.0536		0.014	0.0216		0.0141		
1/8/2019			<0.005			0.0112			
5/29/2019	0.0555			0.0132	0.0215		0.0138	0.014	0.0148
5/30/2019		0.0671							
7/31/2019		0.0649							
9/30/2019		0.0704		0.0145					
10/1/2019	0.0635		<0.005		0.0221		0.0144	0.0152	0.017
10/2/2019						0.022			
3/30/2020	0.0557								
3/31/2020		0.0702	<0.005	0.0158	0.0246	0.025	0.0154	0.0177	
4/1/2020									0.0183
5/12/2020									
9/1/2020	0.0811	0.0763	<0.005	0.0165	0.0246	0.0257	0.0148		
9/2/2020								0.0174	0.0206

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/11/2020 9:15 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16
3/1/2016		
3/2/2016		0.0102
4/19/2016		0.0103
4/20/2016		
6/8/2016		0.0105
8/30/2016		
8/31/2016		0.0117
10/18/2016		
10/19/2016		0.0108
1/31/2017		0.0102
2/1/2017		
5/2/2017		0.0102
5/3/2017		
6/6/2017		0.00982
6/7/2017		
1/22/2018		
1/23/2018		0.0151
1/24/2018		
5/1/2018		0.0114
5/2/2018		
11/27/2018		0.0108
11/28/2018		
1/8/2019		
5/29/2019		0.0106
5/30/2019		
7/31/2019	0.0174	
9/30/2019		
10/1/2019	0.0243	0.0138
10/2/2019		
3/30/2020		
3/31/2020		0.012
4/1/2020		
5/12/2020	0.0206	
9/1/2020	0.0401	
9/2/2020		0.0137

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-3	BY-AP-MW-4
3/1/2016		<0.005
3/2/2016	<0.005	
4/19/2016	<0.005	<0.005
6/7/2016	<0.005	<0.005
6/8/2016		
8/30/2016		<0.005
8/31/2016	<0.005	
10/19/2016	<0.005	<0.005
1/31/2017	<0.005	<0.005
5/2/2017	<0.005	<0.005
6/6/2017	<0.005	<0.005
1/24/2018	<0.005	<0.005
5/1/2018	<0.005	<0.005
11/27/2018	<0.005	<0.005
1/8/2019		
3/20/2019		
5/29/2019	<0.005	<0.005
7/31/2019		
10/1/2019	<0.005	<0.005
10/2/2019		
3/30/2020		
3/31/2020	<0.005	<0.005
4/1/2020		
5/12/2020		
8/31/2020		
9/1/2020	<0.005	<0.005
9/2/2020		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-GSA-MW-2 (bg)	BY-GSA-MW-3 (bg)
2/23/2016	<0.005	<0.005
3/1/2016		
4/19/2016	<0.005	<0.005
4/20/2016		
6/6/2016		
6/7/2016	<0.005	<0.005
6/8/2016		
8/30/2016	<0.005	<0.005
8/31/2016		
10/18/2016	<0.005	<0.005
10/19/2016		
1/31/2017	<0.005	<0.005
2/1/2017		
5/2/2017	<0.005	<0.005
5/3/2017		
6/6/2017	<0.005	<0.005
6/7/2017		
1/23/2018	<0.005	<0.005
1/24/2018		
5/1/2018	<0.005	<0.005
5/2/2018		
11/27/2018	<0.005	<0.005
11/28/2018		
1/8/2019		
1/9/2019		
5/29/2019	<0.005	<0.005
5/30/2019		
9/30/2019		
10/1/2019		
10/2/2019	<0.005	<0.005
3/30/2020		
3/31/2020	<0.005	<0.005
9/1/2020		
9/2/2020		
9/9/2020	<0.005	<0.005

Time Series

Constituent: Barium (mg/L) Analysis Run 12/11/2020 9:16 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-14	BY-AP-MW-15
3/1/2016		0.0634		0.122					
3/2/2016	0.219				0.0815		0.0947	0.0491	0.0468
4/19/2016	0.201								0.043
4/20/2016		0.0622		0.11	0.0692		0.0758	0.049	
6/8/2016	0.274	0.0642		0.105	0.0763		0.071	0.0627	0.0465
8/30/2016								0.0635	
8/31/2016	0.296	0.063		0.102	0.0741		0.0722		0.0464
10/18/2016								0.0603	
10/19/2016	0.281	0.0577		0.0953	0.0727		0.0707		0.0481
1/31/2017	0.211						0.0686	0.0533	0.0427
2/1/2017		0.0607		0.0917	0.0701				
5/2/2017	0.29							0.0616	0.0473
5/3/2017		0.0665		0.0951	0.078		0.0756		
6/6/2017	0.25							0.0585	0.0437
6/7/2017		0.0632		0.0864	0.0682		0.0695		
1/22/2018							0.0688		0.0501
1/23/2018		0.0673		0.0868	0.0744			0.0608	
1/24/2018	0.289								
5/1/2018	0.28								0.0575
5/2/2018		0.0752		0.0816	0.0814		0.0806	0.0614	
11/27/2018								0.0589	0.0557
11/28/2018	0.271	0.066		0.0796	0.0788		0.0697		
1/8/2019			0.149			0.144			
5/29/2019	0.29			0.0653	0.0769		0.0704	0.0617	0.0562
5/30/2019		0.063							
7/31/2019									
9/30/2019		0.0669		0.0759					
10/1/2019	0.293		0.167		0.0795		0.0696	0.0605	0.0628
10/2/2019						0.101			
3/30/2020	0.279								
3/31/2020		0.0727	0.184	0.0842	0.0851	0.0939	0.0728	0.0619	
4/1/2020									0.0697
5/12/2020									
9/1/2020	0.33	0.078	0.203	0.0923	0.0827	0.102	0.0722		
9/2/2020								0.0687	0.0736

Time Series

Constituent: Barium (mg/L) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16
3/1/2016		
3/2/2016		0.0921
4/19/2016		0.0775
4/20/2016		
6/8/2016		0.0798
8/30/2016		
8/31/2016		0.0801
10/18/2016		
10/19/2016		0.0766
1/31/2017		0.075
2/1/2017		
5/2/2017		0.0761
5/3/2017		
6/6/2017		0.07
6/7/2017		
1/22/2018		
1/23/2018		0.0779
1/24/2018		
5/1/2018		0.0877
5/2/2018		
11/27/2018		0.0792
11/28/2018		
1/8/2019		
5/29/2019		0.081
5/30/2019		
7/31/2019	0.144	
9/30/2019		
10/1/2019	0.13	0.0803
10/2/2019		
3/30/2020		
3/31/2020		0.091
4/1/2020		
5/12/2020	0.155	
9/1/2020	0.134	
9/2/2020		0.0954

Time Series

Constituent: Barium (mg/L) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-3	BY-AP-MW-4
3/1/2016		0.018
3/2/2016	0.0306	
4/19/2016	0.0292	0.0166
6/7/2016	0.0318	0.0271
6/8/2016		
8/30/2016		0.0312
8/31/2016	0.0324	
10/19/2016	0.0313	0.0443
1/31/2017	0.0306	0.0231
5/2/2017	0.0332	0.0241
6/6/2017	0.0275	0.0276
1/24/2018	0.0317	0.0293
5/1/2018	0.0356	0.0205
11/27/2018	0.0339	0.0321
1/8/2019		
3/20/2019		
5/29/2019	0.037	0.0203
7/31/2019		
10/1/2019	0.0356	0.0207
10/2/2019		
3/30/2020		
3/31/2020	0.0393	0.0193
4/1/2020		
5/12/2020		
8/31/2020		
9/1/2020	0.038	0.0131
9/2/2020		

Time Series

Constituent: Barium (mg/L) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-GSA-MW-2 (bg)	BY-GSA-MW-3 (bg)
2/23/2016	0.111	0.0862
3/1/2016		
4/19/2016	0.0875	0.0718
4/20/2016		
6/6/2016		
6/7/2016	0.0979	0.0754
6/8/2016		
8/30/2016	0.108	0.0768
8/31/2016		
10/18/2016	0.103	0.0727
10/19/2016		
1/31/2017	0.109	0.0698
2/1/2017		
5/2/2017	0.125	0.0723
5/3/2017		
6/6/2017	0.108	0.07
6/7/2017		
1/23/2018	0.153	0.0747
1/24/2018		
5/1/2018	0.167	0.0877
5/2/2018		
11/27/2018	0.158	0.0804
11/28/2018		
1/8/2019		
1/9/2019		
5/29/2019	0.172	0.0831
5/30/2019		
9/30/2019		
10/1/2019		
10/2/2019	0.183	0.089
3/30/2020		
3/31/2020	0.171	0.0927
9/1/2020		
9/2/2020		
9/9/2020	0.172	0.0919

Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/11/2020 9:16 AM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-14	BY-AP-MW-15
3/1/2016		<0.003		<0.003					
3/2/2016	<0.003				<0.003		<0.003	<0.003	<0.003
4/19/2016	<0.003								<0.003
4/20/2016		<0.003		<0.003	<0.003		<0.003	<0.003	
6/8/2016	<0.003	<0.003		<0.003	<0.003		<0.003	<0.003	<0.003
8/30/2016								<0.003	
8/31/2016	<0.003	<0.003		<0.003	<0.003		<0.003		<0.003
10/18/2016								<0.003	
10/19/2016	<0.003	<0.003		<0.003	<0.003		<0.003		<0.003
1/31/2017	<0.003						<0.003	<0.003	<0.003
2/1/2017		<0.003		<0.003	<0.003				
5/2/2017	<0.003							<0.003	<0.003
5/3/2017		<0.003		<0.003	<0.003		<0.003		
6/6/2017	<0.003							<0.003	<0.003
6/7/2017		<0.003		<0.003	<0.003		0.00103 (J)		
1/22/2018							<0.003		<0.003
1/23/2018		<0.003		<0.003	<0.003			<0.003	
1/24/2018	<0.003								
5/1/2018	<0.003								<0.003
5/2/2018		<0.003		<0.003	<0.003		<0.003	<0.003	
11/27/2018								<0.003	<0.003
11/28/2018	<0.003	<0.003		<0.003	<0.003		<0.003		
1/8/2019			<0.003			<0.003			
5/29/2019	<0.003			<0.003	<0.003		<0.003	<0.003	<0.003
5/30/2019		<0.003							
7/31/2019									
9/30/2019		<0.003		<0.003					
10/1/2019	<0.003		<0.003		<0.003		<0.003	<0.003	<0.003
10/2/2019						<0.003			
3/30/2020	<0.003								
3/31/2020		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	
4/1/2020									<0.003
5/12/2020									
9/1/2020	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003		
9/2/2020								<0.003	<0.003

Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16
3/1/2016		
3/2/2016		<0.003
4/19/2016		<0.003
4/20/2016		
6/8/2016		<0.003
8/30/2016		
8/31/2016		<0.003
10/18/2016		
10/19/2016		<0.003
1/31/2017		<0.003
2/1/2017		
5/2/2017		<0.003
5/3/2017		
6/6/2017		<0.003
6/7/2017		
1/22/2018		
1/23/2018		<0.003
1/24/2018		
5/1/2018		<0.003
5/2/2018		
11/27/2018		<0.003
11/28/2018		
1/8/2019		
5/29/2019		<0.003
5/30/2019		
7/31/2019	<0.003	
9/30/2019		
10/1/2019	<0.003	<0.003
10/2/2019		
3/30/2020		
3/31/2020		<0.003
4/1/2020		
5/12/2020	<0.003	
9/1/2020	<0.003	
9/2/2020		<0.003

Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-3	BY-AP-MW-4
3/1/2016		<0.003
3/2/2016	<0.003	
4/19/2016	<0.003	<0.003
6/7/2016	<0.003	<0.003
6/8/2016		
8/30/2016		<0.003
8/31/2016	<0.003	
10/19/2016	<0.003	<0.003
1/31/2017	<0.003	<0.003
5/2/2017	<0.003	<0.003
6/6/2017	<0.003	<0.003
1/24/2018	<0.003	<0.003
5/1/2018	<0.003	<0.003
11/27/2018	<0.003	0.00071 (J)
1/8/2019		
3/20/2019		
5/29/2019	<0.003	<0.003
7/31/2019		
10/1/2019	<0.003	<0.003
10/2/2019		
3/30/2020		
3/31/2020	<0.003	<0.003
4/1/2020		
5/12/2020		
8/31/2020		
9/1/2020	<0.003	<0.003
9/2/2020		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-GSA-MW-2 (bg)	BY-GSA-MW-3 (bg)
2/23/2016	<0.003	<0.003
3/1/2016		
4/19/2016	<0.003	<0.003
4/20/2016		
6/6/2016		
6/7/2016	0.00093 (J)	<0.003
6/8/2016		
8/30/2016	<0.003	<0.003
8/31/2016		
10/18/2016	<0.003	<0.003
10/19/2016		
1/31/2017	<0.003	<0.003
2/1/2017		
5/2/2017	<0.003	<0.003
5/3/2017		
6/6/2017	<0.003	<0.003
6/7/2017		
1/23/2018	<0.003	<0.003
1/24/2018		
5/1/2018	<0.003	<0.003
5/2/2018		
11/27/2018		<0.003
11/28/2018		
1/8/2019		
1/9/2019		
5/29/2019	<0.003	<0.003
5/30/2019		
9/30/2019		
10/1/2019		
10/2/2019	<0.003	<0.003
3/30/2020		
3/31/2020	<0.003	<0.003
9/1/2020		
9/2/2020		
9/9/2020	<0.003	<0.003

Time Series

Constituent: Boron (mg/L) Analysis Run 12/11/2020 9:16 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-14	BY-AP-MW-15
3/1/2016		1.39		0.0482 (J)					
3/2/2016	2.03				0.0502 (J)		0.0328 (J)	0.0395 (J)	0.0447 (J)
4/19/2016	2.2								0.0645 (J)
4/20/2016		1.51		0.059 (J)	0.0672 (J)		0.0434 (J)	0.0549 (J)	
6/8/2016	1.61	1.62		0.0568 (J)	0.0659 (J)		0.0391 (J)	0.0593 (J)	0.0592 (J)
8/30/2016								0.0534 (J)	
8/31/2016	1.55	1.73		0.0651 (J)	0.065 (J)		0.0401 (J)		0.0632 (J)
10/18/2016								0.0597 (J)	
10/19/2016	1.59	1.77		0.06 (J)	0.0721 (J)		0.0427 (J)		0.0637 (J)
1/31/2017	1.84						0.034 (J)	0.0479 (J)	0.0536 (J)
2/1/2017		1.42		0.0638 (J)	0.06 (J)				
5/2/2017	1.73							0.0587 (J)	0.0775 (J)
5/3/2017		1.52		0.0655 (J)	0.0768 (J)		0.0416 (J)		
6/6/2017	1.56							0.0428 (J)	0.0535 (J)
6/7/2017		1.52		0.0468 (J)	0.0625 (J)		0.0277 (J)		
9/13/2017	1.87			0.0751 (J)	0.0926 (J)		0.044 (J)	0.0647 (J)	0.0937 (J)
9/14/2017		1.96							
5/1/2018	1.81								0.0683 (J)
5/2/2018		2		0.0545 (J)	0.064 (J)		0.0393 (J)	0.0484 (J)	
11/27/2018								0.0493 (J)	0.0715 (J)
11/28/2018	1.8	2		0.0545 (J)	0.064 (J)		0.0417 (J)		
1/8/2019			0.677			0.0939 (J)			
5/29/2019	1.75			0.082 (J)	0.0952 (J)		0.0528 (J)	0.0682 (J)	0.116
5/30/2019		2.11							
7/31/2019									
9/30/2019		2.02		0.103					
10/1/2019	1.91		1.02		0.0967 (J)		0.0604 (J)	0.0701 (J)	0.116
10/2/2019						0.134			
3/30/2020	1.77								
3/31/2020		2.12	1.04	0.0815 (J)	0.0856 (J)	0.101	0.0505 (J)	0.0655 (J)	
4/1/2020									0.1
5/12/2020									
9/1/2020	2.11	2.02	1.06	0.104	0.115	0.149	0.0642 (J)		
9/2/2020								0.0789 (J)	0.148

Time Series

Constituent: Boron (mg/L) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16
3/1/2016		
3/2/2016		1.47
4/19/2016		1.53
4/20/2016		
6/8/2016		1.7
8/30/2016		
8/31/2016		1.68
10/18/2016		
10/19/2016		1.53
1/31/2017		1.51
2/1/2017		
5/2/2017		1.64
5/3/2017		
6/6/2017		1.57
6/7/2017		
9/13/2017		2.18
9/14/2017		
5/1/2018		1.57
5/2/2018		
11/27/2018		1.58
11/28/2018		
1/8/2019		
5/29/2019		1.7
5/30/2019		
7/31/2019	0.0439 (J)	
9/30/2019		
10/1/2019	0.0824 (J)	2.05
10/2/2019		
3/30/2020		
3/31/2020		1.74
4/1/2020		
5/12/2020	0.0559 (J)	
9/1/2020	0.0907 (J)	
9/2/2020		1.9

Time Series

Constituent: Boron (mg/L) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-3	BY-AP-MW-4
3/1/2016		<0.1
3/2/2016	<0.1	
4/19/2016	<0.1	<0.1
6/7/2016	<0.1	<0.1
6/8/2016		
8/30/2016		<0.1
8/31/2016	<0.1	
10/19/2016	<0.1	<0.1
1/31/2017	<0.1	<0.1
5/2/2017	<0.1	<0.1
6/6/2017	<0.1	<0.1
9/12/2017	<0.1	<0.1
5/1/2018	<0.1	<0.1
11/27/2018	<0.1	<0.1
1/8/2019		
3/20/2019		
5/29/2019	<0.1	<0.1
7/31/2019		
10/1/2019	<0.1	<0.1
10/2/2019		
3/30/2020		
3/31/2020	<0.1	<0.1
4/1/2020		
5/12/2020		
8/31/2020		
9/1/2020	<0.1	<0.1
9/2/2020		

Time Series

Constituent: Boron (mg/L) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-GSA-MW-2 (bg)	BY-GSA-MW-3 (bg)
2/23/2016	0.0252 (J)	<0.1
3/1/2016		
4/19/2016	<0.1	<0.1
4/20/2016		
6/6/2016		
6/7/2016	0.0202 (J)	<0.1
6/8/2016		
8/30/2016	<0.1	<0.1
8/31/2016		
10/18/2016	<0.1	<0.1
10/19/2016		
1/31/2017	<0.1	<0.1
2/1/2017		
5/2/2017	<0.1	<0.1
5/3/2017		
6/6/2017	<0.1	<0.1
6/7/2017		
9/13/2017	<0.1	<0.1
9/14/2017		
5/1/2018	<0.1	<0.1
5/2/2018		
11/27/2018		<0.1
11/28/2018		
1/8/2019		
1/9/2019		
5/29/2019	<0.1	<0.1
5/30/2019		
9/30/2019		
10/1/2019		
10/2/2019	<0.1	<0.1
3/30/2020		
3/31/2020	<0.1	<0.1
9/1/2020		
9/2/2020		
9/9/2020	<0.1	<0.1

Time Series

Constituent: Cadmium (mg/L) Analysis Run 12/11/2020 9:16 AM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-14	BY-AP-MW-15
3/1/2016		<0.001		<0.001					
3/2/2016	<0.001				<0.001		<0.001	<0.001	<0.001
4/19/2016	<0.001								<0.001
4/20/2016		<0.001		<0.001	<0.001		<0.001	<0.001	
6/8/2016	<0.001	<0.001		<0.001	<0.001		<0.001	<0.001	<0.001
8/30/2016								<0.001	
8/31/2016	<0.001	<0.001		<0.001	<0.001		<0.001		<0.001
10/18/2016								<0.001	
10/19/2016	<0.001	<0.001		<0.001	<0.001		<0.001		<0.001
1/31/2017	<0.001						<0.001	<0.001	<0.001
2/1/2017		<0.001		<0.001	<0.001				
5/2/2017	<0.001							<0.001	<0.001
5/3/2017		<0.001		<0.001	<0.001		<0.001		
6/6/2017	<0.001							<0.001	<0.001
6/7/2017		<0.001		<0.001	<0.001		0.00077 (J)		
1/22/2018							<0.001		<0.001
1/23/2018		<0.001		<0.001	<0.001			<0.001	
1/24/2018	<0.001								
5/1/2018	<0.001								<0.001
5/2/2018		<0.001		<0.001	<0.001		<0.001	<0.001	
11/27/2018								<0.001	<0.001
11/28/2018	<0.001	<0.001		<0.001	<0.001		<0.001		
1/8/2019			<0.001			<0.001			
5/29/2019	<0.001			<0.001	<0.001		<0.001	<0.001	<0.001
5/30/2019		<0.001							
7/31/2019									
9/30/2019		<0.001		<0.001					
10/1/2019	<0.001		<0.001		<0.001		<0.001	<0.001	<0.001
10/2/2019						<0.001			
3/30/2020	<0.001								
3/31/2020		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
4/1/2020									<0.001
5/12/2020									
9/1/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
9/2/2020								<0.001	<0.001

Time Series

Constituent: Cadmium (mg/L) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16
3/1/2016		
3/2/2016		<0.001
4/19/2016		<0.001
4/20/2016		
6/8/2016		<0.001
8/30/2016		
8/31/2016		<0.001
10/18/2016		
10/19/2016		<0.001
1/31/2017		<0.001
2/1/2017		
5/2/2017		<0.001
5/3/2017		
6/6/2017		<0.001
6/7/2017		
1/22/2018		
1/23/2018		<0.001
1/24/2018		
5/1/2018		<0.001
5/2/2018		
11/27/2018		<0.001
11/28/2018		
1/8/2019		
5/29/2019		<0.001
5/30/2019		
7/31/2019	<0.001	
9/30/2019		
10/1/2019	<0.001	<0.001
10/2/2019		
3/30/2020		
3/31/2020		<0.001
4/1/2020		
5/12/2020	<0.001	
9/1/2020	<0.001	
9/2/2020		<0.001

Time Series

Constituent: Cadmium (mg/L) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-3	BY-AP-MW-4
3/1/2016		<0.001
3/2/2016	<0.001	
4/19/2016	<0.001	<0.001
6/7/2016	<0.001	<0.001
6/8/2016		
8/30/2016		<0.001
8/31/2016	<0.001	
10/19/2016	<0.001	<0.001
1/31/2017	<0.001	<0.001
5/2/2017	<0.001	<0.001
6/6/2017	<0.001	<0.001
1/24/2018	<0.001	<0.001
5/1/2018	<0.001	<0.001
11/27/2018	<0.001	<0.001
1/8/2019		
3/20/2019		
5/29/2019	<0.001	<0.001
7/31/2019		
10/1/2019	<0.001	<0.001
10/2/2019		
3/30/2020		
3/31/2020	<0.001	<0.001
4/1/2020		
5/12/2020		
8/31/2020		
9/1/2020	<0.001	<0.001
9/2/2020		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-GSA-MW-2 (bg)	BY-GSA-MW-3 (bg)
2/23/2016	<0.001	<0.001
3/1/2016		
4/19/2016	<0.001	<0.001
4/20/2016		
6/6/2016		
6/7/2016	<0.001	<0.001
6/8/2016		
8/30/2016	<0.001	<0.001
8/31/2016		
10/18/2016	<0.001	<0.001
10/19/2016		
1/31/2017	<0.001	<0.001
2/1/2017		
5/2/2017	<0.001	<0.001
5/3/2017		
6/6/2017	<0.001	<0.001
6/7/2017		
1/23/2018	<0.001	<0.001
1/24/2018		
5/1/2018	<0.001	<0.001
5/2/2018		
11/27/2018	<0.001	<0.001
11/28/2018		
1/8/2019		
1/9/2019		
5/29/2019	<0.001	<0.001
5/30/2019		
9/30/2019		
10/1/2019		
10/2/2019	<0.001	<0.001
3/30/2020		
3/31/2020	<0.001	<0.001
9/1/2020		
9/2/2020		
9/9/2020	<0.001	<0.001

Time Series

Constituent: Calcium (mg/L) Analysis Run 12/11/2020 9:16 AM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-14	BY-AP-MW-15
3/1/2016		50.6		35.3					
3/2/2016	46.5				21		16.7	9.53	6.61
4/19/2016	49								5.97
4/20/2016		49.1		28.9	20.1		13.1	9.55	
6/8/2016	33.5	48.7		27.6	20.2		11.7	13.1	6.36
8/30/2016								12.1	
8/31/2016	34.2	57.9		25.4	19.9		11.3		6.28
10/18/2016								11.4	
10/19/2016	35.1	52.2		25.7	20.4		11.8		6.57
1/31/2017	38.5						12.5	10.8	6.77
2/1/2017		47.6		25.6	20.9				
5/2/2017	35.1							11.9	6.94
5/3/2017		51.3		24	20.9		12		
6/6/2017	32.4							12.2	6.88
6/7/2017		51.4		25.2	21.2		12.8		
9/13/2017	40.5			25.5	22.1		13.3	13.9	7.43
9/14/2017		54.9							
5/1/2018	39.7								7.42
5/2/2018		53.3		25.2	22.2		13.8	10.6	
8/28/2018	37.2	56.4							
8/29/2018				25.6	22.3		13.3	11.7	7.37
11/27/2018								10.8	7.58
11/28/2018	35.8	54.2		24.6	22.1		15.2		
1/8/2019			57.2			33.8			
5/29/2019	33.4			23.9	21.4		12.8	11.2	7.22
5/30/2019		60.5							
7/31/2019									
9/30/2019		63.1		24.6					
10/1/2019	36.7		61.2		23.1		13.4	11.4	6.9
10/2/2019						22.2			
3/30/2020	33.7								
3/31/2020		63.6	66.6	25.1	22.4	21.3	13.2	9.04	
4/1/2020									7.32
5/12/2020									
9/1/2020	40.5	57.2	57.3	23.9	22.2	21	12.3		
9/2/2020								10.8	7.04

Time Series

Constituent: Calcium (mg/L) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16
3/1/2016		
3/2/2016		14.6
4/19/2016		13.3
4/20/2016		
6/8/2016		13.2
8/30/2016		
8/31/2016		11.8
10/18/2016		
10/19/2016		12.9
1/31/2017		13.5
2/1/2017		
5/2/2017		13.5
5/3/2017		
6/6/2017		13.6
6/7/2017		
9/13/2017		11.8
9/14/2017		
5/1/2018		14
5/2/2018		
8/28/2018		
8/29/2018		12.1
11/27/2018		13.3
11/28/2018		
1/8/2019		
5/29/2019		13.4
5/30/2019		
7/31/2019	9.32	
9/30/2019		
10/1/2019	8.41	11.7
10/2/2019		
3/30/2020		
3/31/2020		14.2
4/1/2020		
5/12/2020	8.01	
9/1/2020	6.9	
9/2/2020		13.1

Time Series

Constituent: Calcium (mg/L) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-3	BY-AP-MW-4
3/1/2016		1.07
3/2/2016	1.11	
4/19/2016	1.01	0.969
6/7/2016	1.06	1.08
6/8/2016		
8/30/2016		0.952
8/31/2016	0.978	
10/19/2016	0.906	1.17
1/31/2017	1.04	0.946
5/2/2017	0.969	0.826
6/6/2017	0.902	0.834
9/12/2017	0.988	0.884
5/1/2018	1.07	0.921
8/28/2018	1.02	0.8
11/27/2018	0.999	1.01
1/8/2019		
3/20/2019		
5/29/2019	1.09	0.627
7/31/2019		
10/1/2019	1.08	0.645
10/2/2019		
3/30/2020		
3/31/2020	1.1	0.898
4/1/2020		
5/12/2020		
8/31/2020		
9/1/2020	1.08	0.566
9/2/2020		

Time Series

Constituent: Calcium (mg/L) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-GSA-MW-2 (bg)	BY-GSA-MW-3 (bg)
2/23/2016	1.11	1.77
3/1/2016		
4/19/2016	1.09	1.68
4/20/2016		
6/6/2016		
6/7/2016	1.16	1.68
6/8/2016		
8/30/2016	1.08	1.62
8/31/2016		
10/18/2016	1.03	1.53
10/19/2016		
1/31/2017	1.23	1.65
2/1/2017		
5/2/2017	1.28	1.58
5/3/2017		
6/6/2017	1.25	1.55
6/7/2017		
9/13/2017	1.6	1.71
9/14/2017		
5/1/2018	1.58	1.76
5/2/2018		
8/28/2018		
8/29/2018		
11/27/2018	1.49	1.69
11/28/2018		
1/8/2019		
1/9/2019		
5/29/2019	1.59	1.74
5/30/2019		
9/30/2019		
10/1/2019		
10/2/2019	1.7	1.86
3/30/2020		
3/31/2020	1.43	1.92
9/1/2020		
9/2/2020		
9/9/2020	1.5	1.97

Time Series

Constituent: Chloride (mg/L) Analysis Run 12/11/2020 9:16 AM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-14	BY-AP-MW-15
3/1/2016		19.6		21.7					
3/2/2016	2.18 (o)				22.2		47.3	36.6	20.9
4/19/2016	9.01 (o)								19.8
4/20/2016		18.8		20.7	21.7		40.5	35.5	
6/8/2016	21	18.6		20.4	22		37.2	43.8	24
8/30/2016								41.6	
8/31/2016	21	18.5		20.3	22.3		38.2		28
10/18/2016								39.5	
10/19/2016	21.4	18.7		20.3	20.8		39.4		21.3
3/21/2017	25								34
3/22/2017		21		27	23		49	46	
5/2/2017	26							42	33
5/3/2017		22		27	25		48		
6/6/2017	27							44	35
6/7/2017		22		24	23		49		
9/13/2017	24			26	23		42	43	36
9/14/2017		22							
5/1/2018	25								42
5/2/2018		23		23	21		47	39	
8/28/2018	25	25							
8/29/2018				25	23		43	44	38
11/27/2018								43	43
11/28/2018	26	25		25	23		43		
1/8/2019			21.3			23.1			
5/29/2019	27.6			27.8	24.1		44	50.1	47.2
5/30/2019		25.9							
7/31/2019									
9/30/2019		25.7		25					
10/1/2019	24.6		20		26.1		39.6	44.8	56.3
10/2/2019						28			
3/30/2020	24.9								
3/31/2020		26.1	20.7	24.1	23.9	25	44.9	44.7	
4/1/2020									54.7
5/12/2020									
9/1/2020	25.7	25	22.9	23.2	23.4	26.4	39.1		
9/2/2020								47.2	47

Time Series

Constituent: Chloride (mg/L) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16
3/1/2016		
3/2/2016		16.6
4/19/2016		15.7
4/20/2016		
6/8/2016		15.1
8/30/2016		
8/31/2016		15.9
10/18/2016		
10/19/2016		15.3
3/21/2017		19
3/22/2017		
5/2/2017		19
5/3/2017		
6/6/2017		19
6/7/2017		
9/13/2017		21
9/14/2017		
5/1/2018		18
5/2/2018		
8/28/2018		
8/29/2018		20
11/27/2018		20
11/28/2018		
1/8/2019		
5/29/2019		20
5/30/2019		
7/31/2019	157	
9/30/2019		
10/1/2019	195	20.3
10/2/2019		
3/30/2020		
3/31/2020		20.8
4/1/2020		
5/12/2020	190	
9/1/2020	170	
9/2/2020		20.8

Time Series

Constituent: Chloride (mg/L) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-3	BY-AP-MW-4
3/1/2016		7.74
3/2/2016	8.04	
4/19/2016	7.6	7.66
6/7/2016	7.7	11.3
6/8/2016		
8/30/2016		10.8
8/31/2016	7.7	
10/19/2016	7.73	11.1
3/21/2017	7.2	11
5/2/2017	8.6	12
6/6/2017	8.3	12
9/12/2017	8.5	11
5/1/2018	7.6	9.2
8/28/2018	8.2	10
11/27/2018	8.4	10
1/8/2019		
3/20/2019		
5/29/2019	9.01	8.53
7/31/2019		
10/1/2019	8.05	7.35
10/2/2019		
3/30/2020		
3/31/2020	9.07	9.54
4/1/2020		
5/12/2020		
8/31/2020		
9/1/2020	8.97	7.82
9/2/2020		

Time Series

Constituent: Chloride (mg/L) Analysis Run 12/11/2020 9:16 AM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-GSA-MW-2 (bg)	BY-GSA-MW-3 (bg)
2/23/2016	3.99	3.68
3/1/2016		
4/19/2016	4.08	3.72
4/20/2016		
6/6/2016		
6/7/2016	4.28	3.66
6/8/2016		
8/30/2016	4.26	3.7
8/31/2016		
10/18/2016	4.26	3.77
10/19/2016		
3/20/2017	4.1	3.7
3/22/2017		
5/2/2017	5 (D)	4.6 (D)
5/3/2017		
6/6/2017	3.9 (D)	3.4 (D)
6/7/2017		
9/13/2017	4.3	3.9
9/14/2017		
5/1/2018	3.7	4.1
5/2/2018		
8/28/2018		
8/29/2018		
11/27/2018	3.2	3.5
11/28/2018		
1/8/2019		
1/9/2019		
5/29/2019	2.93	3.58
5/30/2019		
9/30/2019		
10/1/2019		
10/2/2019	2.75	3.64
3/30/2020		
3/31/2020	2.72	3.47
9/1/2020		
9/2/2020		
9/9/2020	2.32	3.47

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/11/2020 9:16 AM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-14	BY-AP-MW-15
3/1/2016		<0.01		0.00213 (J)					
3/2/2016	0.00591 (J)				0.0042 (J)		0.00656 (J)	0.00552 (J)	<0.01
4/19/2016	0.0077 (J)								<0.01
4/20/2016		<0.01		0.00214 (J)	0.0034 (J)		0.00661 (J)	0.00572 (J)	
6/8/2016	0.00264 (J)	<0.01		0.00205 (J)	0.00308 (J)		0.0067 (J)	0.00492 (J)	<0.01
8/30/2016								0.00534 (J)	
8/31/2016	0.00246 (J)	<0.01		0.00221 (J)	0.0032 (J)		0.00693 (J)		<0.01
10/18/2016								0.00556 (J)	
10/19/2016	0.00248 (J)	<0.01		0.00213 (J)	0.0035 (J)		0.00732 (J)		<0.01
1/31/2017	0.00556 (J)						0.00699 (J)	0.00514 (J)	<0.01
2/1/2017		<0.01		0.00228 (J)	0.00371 (J)				
5/2/2017	0.00269 (J)							0.00524 (J)	<0.01
5/3/2017		<0.01		0.00229 (J)	0.00369 (J)		0.00712 (J)		
6/6/2017	0.00295 (J)							0.00541 (J)	<0.01
6/7/2017		<0.01		0.00233 (J)	0.00372 (J)		0.00752 (J)		
1/22/2018							0.00729 (J)		<0.01
1/23/2018		<0.01		0.00248 (J)	0.00605 (J)			0.00573 (J)	
1/24/2018	0.00278 (J)								
5/1/2018	0.00435 (J)								<0.01
5/2/2018		<0.01		0.00273 (J)	0.00351 (J)		0.00642 (J)	0.00534 (J)	
11/27/2018								0.00523 (J)	<0.01
11/28/2018	0.0036 (J)	<0.01		0.0023 (J)	0.00353 (J)		0.0068 (J)		
1/8/2019			<0.01			0.0021 (J)			
5/29/2019	0.00223 (J)			0.00211 (J)	0.00333 (J)		0.00727 (J)	0.00455 (J)	<0.01
5/30/2019		<0.01							
7/31/2019									
9/30/2019		<0.01		0.00228 (J)					
10/1/2019	0.00236 (J)		<0.01		0.00325 (J)		0.00764 (J)	0.00508 (J)	<0.01
10/2/2019						<0.01			
3/30/2020	0.00415 (J)								
3/31/2020		<0.01	<0.01	0.00358 (J)	0.0056 (J)	<0.01	0.00955 (J)	0.00463 (J)	
4/1/2020									<0.01
5/12/2020									
9/1/2020	0.00242 (J)	<0.01	<0.01	0.00259 (J)	0.00332 (J)	<0.01	0.00888 (J)		
9/2/2020								0.00482 (J)	<0.01

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16
3/1/2016		
3/2/2016		<0.01
4/19/2016		<0.01
4/20/2016		
6/8/2016		<0.01
8/30/2016		
8/31/2016		0.00215 (J)
10/18/2016		
10/19/2016		<0.01
1/31/2017		<0.01
2/1/2017		
5/2/2017		<0.01
5/3/2017		
6/6/2017		<0.01
6/7/2017		
1/22/2018		
1/23/2018		0.00253 (J)
1/24/2018		
5/1/2018		<0.01
5/2/2018		
11/27/2018		<0.01
11/28/2018		
1/8/2019		
5/29/2019		<0.01
5/30/2019		
7/31/2019	<0.01	
9/30/2019		
10/1/2019	<0.01	<0.01
10/2/2019		
3/30/2020		
3/31/2020		<0.01
4/1/2020		
5/12/2020	<0.01	
9/1/2020	<0.01	
9/2/2020		<0.01

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-3	BY-AP-MW-4
3/1/2016		<0.01
3/2/2016	<0.01	
4/19/2016	<0.01	<0.01
6/7/2016	<0.01	<0.01
6/8/2016		
8/30/2016		<0.01
8/31/2016	<0.01	
10/19/2016	<0.01	<0.01
1/31/2017	<0.01	<0.01
5/2/2017	<0.01	<0.01
6/6/2017	<0.01	<0.01
1/24/2018	<0.01	<0.01
5/1/2018	<0.01	<0.01
11/27/2018	<0.01	<0.01
1/8/2019		
3/20/2019		
5/29/2019	<0.01	<0.01
7/31/2019		
10/1/2019	<0.01	<0.01
10/2/2019		
3/30/2020		
3/31/2020	<0.01	<0.01
4/1/2020		
5/12/2020		
8/31/2020		
9/1/2020	<0.01	<0.01
9/2/2020		

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-GSA-MW-2 (bg)	BY-GSA-MW-3 (bg)
2/23/2016	<0.01	<0.01
3/1/2016		
4/19/2016	<0.01	<0.01
4/20/2016		
6/6/2016		
6/7/2016	<0.01	<0.01
6/8/2016		
8/30/2016	<0.01	<0.01
8/31/2016		
10/18/2016	<0.01	<0.01
10/19/2016		
1/31/2017	<0.01	<0.01
2/1/2017		
5/2/2017	<0.01	<0.01
5/3/2017		
6/6/2017	<0.01	<0.01
6/7/2017		
1/23/2018	0.00596 (J)	0.00229 (J)
1/24/2018		
5/1/2018	<0.01	<0.01
5/2/2018		
11/27/2018	<0.01	<0.01
11/28/2018		
1/8/2019		
1/9/2019		
5/29/2019	<0.01	<0.01
5/30/2019		
9/30/2019		
10/1/2019		
10/2/2019	<0.01	<0.01
3/30/2020		
3/31/2020	<0.01	<0.01
9/1/2020		
9/2/2020		
9/9/2020	<0.01	<0.01

Time Series

Constituent: Cobalt (mg/L) Analysis Run 12/11/2020 9:16 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-14	BY-AP-MW-15
3/1/2016		<0.005		<0.005					
3/2/2016	<0.005				0.00235 (J)		<0.005	<0.005	0.0279
4/19/2016	<0.005								0.0269
4/20/2016		<0.005		<0.005	0.00212 (J)		<0.005	<0.005	
6/8/2016	<0.005	<0.005		<0.005	0.00276 (J)		<0.005	<0.005	0.0293
8/30/2016								<0.005	
8/31/2016	<0.005	<0.005		<0.005	0.00261 (J)		<0.005		0.0272
10/18/2016								<0.005	
10/19/2016	<0.005	<0.005		<0.005	0.00256 (J)		<0.005		0.0285
1/31/2017	<0.005						<0.005	<0.005	0.025
2/1/2017		<0.005		<0.005	0.00231 (J)				
5/2/2017	<0.005							<0.005	0.0274
5/3/2017		<0.005		<0.005	0.00279 (J)		<0.005		
6/6/2017	<0.005							<0.005	0.0285
6/7/2017		<0.005		<0.005	0.00262 (J)		<0.005		
1/22/2018							<0.005		0.0273
1/23/2018		<0.005		<0.005	0.00248 (J)			<0.005	
1/24/2018	<0.005								
5/1/2018	<0.005								0.0298
5/2/2018		<0.005		<0.005	0.00271 (J)		<0.005	<0.005	
11/27/2018								<0.005	0.0311
11/28/2018	<0.005	<0.005		<0.005	0.00274 (J)		<0.005		
1/8/2019			<0.005			<0.005			
5/29/2019	<0.005			<0.005	0.00358 (J)		<0.005	<0.005	0.0343
5/30/2019		<0.005							
7/31/2019									
9/30/2019		<0.005		<0.005					
10/1/2019	<0.005		<0.005		0.00303 (J)		<0.005	<0.005	0.0336
10/2/2019						<0.005			
3/30/2020	<0.005								
3/31/2020		<0.005	<0.005	<0.005	0.00364 (J)	<0.005	<0.005	<0.005	
4/1/2020									0.0344
5/12/2020									
9/1/2020	<0.005	<0.005	<0.005	<0.005	0.0031 (J)	<0.005	<0.005		
9/2/2020								<0.005	0.0385

Time Series

Constituent: Cobalt (mg/L) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16
3/1/2016		
3/2/2016		0.0212
4/19/2016		0.018
4/20/2016		
6/8/2016		0.0176
8/30/2016		
8/31/2016		0.0134
10/18/2016		
10/19/2016		0.0193
1/31/2017		0.017
2/1/2017		
5/2/2017		0.0166
5/3/2017		
6/6/2017		0.0172
6/7/2017		
1/22/2018		
1/23/2018		0.00621 (J)
1/24/2018		
5/1/2018		0.0189
5/2/2018		
11/27/2018		0.0182
11/28/2018		
1/8/2019		
5/29/2019		0.0206
5/30/2019		
7/31/2019	0.0632	
9/30/2019		
10/1/2019	0.0629	0.0107
10/2/2019		
3/30/2020		
3/31/2020		0.0199
4/1/2020		
5/12/2020	0.0719	
9/1/2020	0.0665	
9/2/2020		0.0192

Time Series

Constituent: Cobalt (mg/L) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-3	BY-AP-MW-4
3/1/2016		<0.005
3/2/2016	<0.005	
4/19/2016	<0.005	<0.005
6/7/2016	<0.005	0.00424 (J)
6/8/2016		
8/30/2016		0.00262 (J)
8/31/2016	<0.005	
10/19/2016	<0.005	0.00469 (J)
1/31/2017	<0.005	0.0127
5/2/2017	<0.005	0.00891 (J)
6/6/2017	<0.005	0.00217 (J)
1/24/2018	<0.005	<0.005
5/1/2018	<0.005	0.0126
11/27/2018	<0.005	0.00363 (J)
1/8/2019		
3/20/2019		
5/29/2019	<0.005	0.00549
7/31/2019		
10/1/2019	<0.005	<0.005
10/2/2019		
3/30/2020		
3/31/2020	<0.005	0.0205
4/1/2020		
5/12/2020		
8/31/2020		
9/1/2020	<0.005	0.00657
9/2/2020		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-GSA-MW-2 (bg)	BY-GSA-MW-3 (bg)
2/23/2016	<0.005	<0.005
3/1/2016		
4/19/2016	<0.005	<0.005
4/20/2016		
6/6/2016		
6/7/2016	<0.005	<0.005
6/8/2016		
8/30/2016	<0.005	<0.005
8/31/2016		
10/18/2016	<0.005	<0.005
10/19/2016		
1/31/2017	<0.005	<0.005
2/1/2017		
5/2/2017	<0.005	<0.005
5/3/2017		
6/6/2017	<0.005	<0.005
6/7/2017		
1/23/2018	0.0021 (J)	<0.005
1/24/2018		
5/1/2018	<0.005	<0.005
5/2/2018		
11/27/2018		<0.005
11/28/2018		
1/8/2019		
1/9/2019		
5/29/2019	0.00248 (J)	<0.005
5/30/2019		
9/30/2019		
10/1/2019		
10/2/2019	0.00244 (J)	<0.005
3/30/2020		
3/31/2020	0.00224 (J)	<0.005
9/1/2020		
9/2/2020		
9/9/2020	0.00219 (J)	<0.005

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/11/2020 9:16 AM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-14	BY-AP-MW-15
3/1/2016		<3		<3					
3/2/2016	<3				<3		<3	<3	<3
4/19/2016	3.0268								<3
4/20/2016		<3		0.667	<3		0.398	<3	
6/7/2016					1.08		0.812		
6/8/2016	1.59	1.06		0.704				0.631	0.557
8/30/2016								0.693	
8/31/2016	2.19	0.871		0.726	0.528		0.46 (U)		0.765
10/18/2016								0.626	
10/19/2016		1.575 (D)		0.737	0.81		0.601		0.654
1/31/2017	1.23						1.1	0.0723 (U)	0.402 (U)
2/1/2017		1		0.766	1.11				
5/2/2017	1.62							0.363 (U)	0.578
5/3/2017		1.07		0.515	0.639		0.832		
6/6/2017	1.24							0.198 (U)	0.128 (U)
6/7/2017		0.254 (U)		1.04	0.705		0.752		
1/22/2018							0.898 (U)		0.768 (U)
1/23/2018		0.795 (U)		1.17 (U)	1.1 (U)			0.294 (U)	
1/24/2018	1.96 (U)								
5/1/2018	1.6								0.651
5/2/2018		0.405		0.505	1.11		0.752	0.522	
11/27/2018								0.576	0.764
11/28/2018	1.48	0.609		0.232 (U)	0.846		0.523		
1/8/2019			1.35			1.04			
5/29/2019	2.25			0.726	2.06		1.01	0.437 (U)	0.433
5/30/2019		0.0949 (U)							
7/31/2019									
9/30/2019		0.965		0.489 (U)					
10/1/2019	2.84		1.99		0.984		1.07	1.11	0.988
10/2/2019						0.896			
3/30/2020	2.31								
3/31/2020		1.14	0.957	0.462 (U)	1.26	0.923	0.725	0.941	
4/1/2020									0.527
5/12/2020									
9/1/2020	1.3	1.68	0.625 (U)	0.752	1.2	1.03	0.698		
9/2/2020								2.12	1.87

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/11/2020 9:16 AM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16
3/1/2016		
3/2/2016		<3
4/19/2016		<3
4/20/2016		
6/7/2016		
6/8/2016		0.344 (U)
8/30/2016		
8/31/2016		0.582
10/18/2016		
10/19/2016		0.448
1/31/2017		0.653
2/1/2017		
5/2/2017		0.698
5/3/2017		
6/6/2017		0.548
6/7/2017		
1/22/2018		
1/23/2018		0.98 (U)
1/24/2018		
5/1/2018		0.623
5/2/2018		
11/27/2018		0.744
11/28/2018		
1/8/2019		
5/29/2019		2.51
5/30/2019		
7/31/2019	1.09 (D)	
9/30/2019		
10/1/2019	1.51	0.443 (U)
10/2/2019		
3/30/2020		
3/31/2020		0.341 (U)
4/1/2020		
5/12/2020	1.67	
9/1/2020	1.28	
9/2/2020		2.25

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/11/2020 9:16 AM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-3	BY-AP-MW-4
3/1/2016		<3
3/2/2016	<3	
4/19/2016	<3	<3
6/7/2016	0.455	0.287 (U)
6/8/2016		
8/30/2016		0.585
8/31/2016	0.329 (U)	
10/19/2016	0.536	1.85
1/31/2017	0.496	0.25 (U)
5/2/2017	0.149 (U)	0.391 (U)
6/6/2017	0.191 (U)	0.183 (U)
1/24/2018	0.543 (U)	0.622 (U)
5/1/2018	0.372 (U)	0.0917 (U)
11/27/2018	0.591	0.695
1/8/2019		
5/29/2019	2.31	0.947
7/31/2019		
10/1/2019	1.52	0.7
10/2/2019		
3/30/2020		
3/31/2020	0.478 (U)	0.323 (U)
4/1/2020		
5/12/2020		
8/31/2020		
9/1/2020	0.158 (U)	0.39 (U)
9/2/2020		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/11/2020 9:16 AM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-GSA-MW-2 (bg)	BY-GSA-MW-3 (bg)
2/23/2016	3 (U)	3 (U)
3/1/2016		
4/19/2016	3 (U)	3 (U)
4/20/2016		
6/6/2016		
6/7/2016	0.652	0.342 (U)
6/8/2016		
8/30/2016	0.411 (U)	0.702
8/31/2016		
10/18/2016	1	0.791
10/19/2016		
1/31/2017	0.398 (U)	0.0613 (U)
2/1/2017		
5/2/2017	0.66	0.974
5/3/2017		
6/6/2017	0.639	0.748
6/7/2017		
1/23/2018	0.669 (U)	0.558 (U)
1/24/2018		
5/1/2018	1.06	0.296 (U)
5/2/2018		
11/27/2018	0.636	0.357 (U)
11/28/2018		
1/8/2019		
1/9/2019		
5/29/2019	0.579 (U)	0.275 (U)
5/30/2019		
9/30/2019		
10/1/2019		
10/2/2019	1.33	0.458 (U)
3/30/2020		
3/31/2020	0.814	0.941
9/1/2020		
9/2/2020		
9/9/2020	0.653 (U)	1.05

Time Series

Constituent: Fluoride (mg/L) Analysis Run 12/11/2020 9:16 AM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-14	BY-AP-MW-15
3/1/2016		0.02 (J)		0.06 (J)					
3/2/2016	0.03 (J)				0.04 (J)		0.05 (J)	0.07 (J)	0.18 (J)
4/19/2016	0.052 (J)								0.21 (J)
4/20/2016		0.034 (J)		0.073 (J)	0.059 (J)		0.064 (J)	0.076 (J)	
6/8/2016	0.069 (J)	0.061 (J)		0.085 (J)	0.08 (J)		0.082 (J)	0.105 (J)	0.223 (J)
8/30/2016								0.083 (J)	
8/31/2016	0.043 (J)	0.04 (J)		0.064 (J)	0.059 (J)		0.062 (J)		0.196 (J)
10/18/2016								0.067 (J)	
10/19/2016	<0.1	0.03 (J)		0.05 (J)	0.045 (J)		0.049 (J)		0.166 (J)
3/21/2017	0.04 (J)								0.18
3/22/2017		<0.1		0.05 (J)	0.04 (J)		0.05 (J)	0.06 (J)	
5/2/2017	0.05 (J)							0.08 (J)	0.18
5/3/2017		0.04 (J)		0.06 (J)	0.06 (J)		0.06 (J)		
6/6/2017	0.049 (J)							0.077 (J)	0.18
6/7/2017		0.04 (J)		0.06 (J)	0.06 (J)		0.07 (J)		
9/13/2017	<0.1 (U*)			<0.1 (U*)	<0.1 (U*)		<0.1 (U*)	<0.1 (U*)	<0.1 (U*)
9/14/2017		0.04 (J)							
1/22/2018							0.06 (J)		0.19
1/23/2018		<0.1		0.06 (J)	0.05 (J)			0.08 (J)	
1/24/2018	0.05 (J)								
5/1/2018	0.05 (J)								0.19
5/2/2018		<0.1		0.06 (J)	0.06 (J)		0.07 (J)	0.08 (J)	
11/27/2018								0.06 (J)	0.18
11/28/2018	<0.1	<0.1		0.05 (J)	0.04 (J)		0.05 (J)		
1/8/2019			0.123			0.0729 (J)			
5/29/2019	0.0858 (J)			0.0759 (J)	0.0677 (J)		0.0679 (J)	0.0781 (J)	0.168
5/30/2019		0.0573 (J)							
7/31/2019									
9/30/2019		<0.1		0.0733 (J)					
10/1/2019	0.0744 (J)		0.0517 (J)		0.0682 (J)		0.0703 (J)	0.0885 (J)	0.185
10/2/2019						0.12			
3/30/2020	0.0726 (J)								
3/31/2020		<0.1	<0.1	0.078 (J)	0.0755 (J)	0.0828 (J)	0.0665 (J)	0.0867 (J)	
4/1/2020									0.187
5/12/2020									
9/1/2020	0.194	0.0794 (J)	0.0695 (J)	0.0841 (J)	0.0845 (J)	0.0947 (J)	0.0757 (J)		
9/2/2020								0.0957 (J)	0.18

Time Series

Constituent: Fluoride (mg/L) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16
3/1/2016		
3/2/2016		0.04 (J)
4/19/2016		0.05 (J)
4/20/2016		
6/8/2016		0.073 (J)
8/30/2016		
8/31/2016		0.051 (J)
10/18/2016		
10/19/2016		<0.1
3/21/2017		0.04 (J)
3/22/2017		
5/2/2017		0.05 (J)
5/3/2017		
6/6/2017		0.053 (J)
6/7/2017		
9/13/2017		<0.1 (U*)
9/14/2017		
1/22/2018		
1/23/2018		0.05 (J)
1/24/2018		
5/1/2018		0.05 (J)
5/2/2018		
11/27/2018		<0.1
11/28/2018		
1/8/2019		
5/29/2019		0.0683 (J)
5/30/2019		
7/31/2019	0.0515 (J)	
9/30/2019		
10/1/2019	0.0931 (J)	0.0774 (J)
10/2/2019		
3/30/2020		
3/31/2020		0.0602 (J)
4/1/2020		
5/12/2020	0.0946 (J)	
9/1/2020	0.0624 (J)	
9/2/2020		<0.1

Time Series

Constituent: Fluoride (mg/L) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-3	BY-AP-MW-4
3/1/2016		0.02 (J)
3/2/2016	0.01 (J)	
4/19/2016	0.014 (J)	0.016 (J)
6/7/2016	0.049 (J)	0.047 (J)
6/8/2016		
8/30/2016		0.035 (J)
8/31/2016	0.034 (J)	
10/19/2016	0.023 (J)	0.025 (J)
3/21/2017	<0.1	<0.1
5/2/2017	<0.1	<0.1
6/6/2017	<0.1	<0.1
9/12/2017	<0.1	<0.1
1/24/2018	<0.1	<0.1
5/1/2018	<0.1	<0.1
11/27/2018	<0.1	<0.1
1/8/2019		
3/20/2019		
5/29/2019	<0.1	<0.1
7/31/2019		
10/1/2019	<0.1	<0.1
10/2/2019		
3/30/2020		
3/31/2020	<0.1	<0.1
4/1/2020		
5/12/2020		
8/31/2020		
9/1/2020	<0.1	<0.1
9/2/2020		

Time Series

Constituent: Fluoride (mg/L) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-GSA-MW-2 (bg)	BY-GSA-MW-3 (bg)
2/23/2016	0.02 (J)	0.02 (J)
3/1/2016		
4/19/2016	0.021 (J)	0.016 (J)
4/20/2016		
6/6/2016		
6/7/2016	0.06 (J)	0.052 (J)
6/8/2016		
8/30/2016	0.05 (J)	0.038 (J)
8/31/2016		
10/18/2016	0.04 (J)	0.03 (J)
10/19/2016		
3/20/2017	<0.1	<0.1
3/22/2017		
5/2/2017	0.04 (JD)	0.075 (D)
5/3/2017		
6/6/2017	0.04 (JD)	0.075 (D)
6/7/2017		
9/13/2017	0.043 (J)	<0.1
9/14/2017		
1/23/2018	0.04 (J)	<0.1
1/24/2018		
5/1/2018	0.04 (J)	<0.1
5/2/2018		
11/27/2018	<0.1	<0.1
11/28/2018		
1/8/2019		
1/9/2019		
5/29/2019	<0.1	<0.1
5/30/2019		
9/30/2019		
10/1/2019		
10/2/2019	<0.1	<0.1
3/30/2020		
3/31/2020	<0.1	<0.1
9/1/2020		
9/2/2020		
9/9/2020	<0.1	<0.1

Time Series

Constituent: Lead (mg/L) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-14	BY-AP-MW-15
3/1/2016		<0.005		<0.005					
3/2/2016	<0.005				<0.005		<0.005	<0.005	<0.005
4/19/2016	<0.005								<0.005
4/20/2016		<0.005		<0.005	<0.005		<0.005	<0.005	
6/8/2016	<0.005	<0.005		<0.005	<0.005		<0.005	<0.005	<0.005
8/30/2016								<0.005	
8/31/2016	<0.005	<0.005		<0.005	<0.005		<0.005		<0.005
10/18/2016								<0.005	
10/19/2016	<0.005	<0.005		<0.005	<0.005		<0.005		<0.005
1/31/2017	<0.005						<0.005	<0.005	<0.005
2/1/2017		<0.005		<0.005	<0.005				
5/2/2017	<0.005							<0.005	<0.005
5/3/2017		<0.005		<0.005	<0.005		<0.005		
6/6/2017	<0.005							<0.005	<0.005
6/7/2017		<0.005		<0.005	<0.005		<0.005		
1/22/2018							<0.005		<0.005
1/23/2018		<0.005		<0.005	<0.005			<0.005	
1/24/2018	<0.005								
5/1/2018	<0.005								<0.005
5/2/2018		<0.005		<0.005	<0.005		<0.005	<0.005	
11/27/2018								<0.005	<0.005
11/28/2018	<0.005	<0.005		<0.005	<0.005		<0.005		
1/8/2019			<0.005			<0.005			
5/29/2019	<0.005			<0.005	<0.005		<0.005	<0.005	<0.005
5/30/2019		<0.005							
7/31/2019									
9/30/2019		<0.005		<0.005					
10/1/2019	<0.005		<0.005		<0.005		<0.005	<0.005	<0.005
10/2/2019						<0.005			
3/30/2020	<0.005								
3/31/2020		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
4/1/2020									<0.005
5/12/2020									
9/1/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		
9/2/2020								<0.005	<0.005

Time Series

Constituent: Lead (mg/L) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16
3/1/2016		
3/2/2016		<0.005
4/19/2016		<0.005
4/20/2016		
6/8/2016		<0.005
8/30/2016		
8/31/2016		<0.005
10/18/2016		
10/19/2016		<0.005
1/31/2017		<0.005
2/1/2017		
5/2/2017		<0.005
5/3/2017		
6/6/2017		<0.005
6/7/2017		
1/22/2018		
1/23/2018		<0.005
1/24/2018		
5/1/2018		<0.005
5/2/2018		
11/27/2018		<0.005
11/28/2018		
1/8/2019		
5/29/2019		<0.005
5/30/2019		
7/31/2019	<0.005	
9/30/2019		
10/1/2019	<0.005	<0.005
10/2/2019		
3/30/2020		
3/31/2020		<0.005
4/1/2020		
5/12/2020	<0.005	
9/1/2020	<0.005	
9/2/2020		<0.005

Time Series

Constituent: Lead (mg/L) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-3	BY-AP-MW-4
3/1/2016		<0.005
3/2/2016	<0.005	
4/19/2016	<0.005	<0.005
6/7/2016	<0.005	<0.005
6/8/2016		
8/30/2016		<0.005
8/31/2016	<0.005	
10/19/2016	<0.005	<0.005
1/31/2017	<0.005	<0.005
5/2/2017	<0.005	<0.005
6/6/2017	<0.005	<0.005
1/24/2018	<0.005	<0.005
5/1/2018	<0.005	<0.005
11/27/2018	<0.005	<0.005
1/8/2019		
3/20/2019		
5/29/2019	<0.005	<0.005
7/31/2019		
10/1/2019	<0.005	<0.005
10/2/2019		
3/30/2020		
3/31/2020	<0.005	<0.005
4/1/2020		
5/12/2020		
8/31/2020		
9/1/2020	<0.005	<0.005
9/2/2020		

Time Series

Constituent: Lead (mg/L) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-GSA-MW-2 (bg)	BY-GSA-MW-3 (bg)
2/23/2016	<0.005	<0.005
3/1/2016		
4/19/2016	<0.005	<0.005
4/20/2016		
6/6/2016		
6/7/2016	<0.005	<0.005
6/8/2016		
8/30/2016	<0.005	<0.005
8/31/2016		
10/18/2016	<0.005	<0.005
10/19/2016		
1/31/2017	<0.005	<0.005
2/1/2017		
5/2/2017	<0.005	<0.005
5/3/2017		
6/6/2017	<0.005	<0.005
6/7/2017		
1/23/2018	<0.005	<0.005
1/24/2018		
5/1/2018	<0.005	<0.005
5/2/2018		
11/27/2018	<0.005	<0.005
11/28/2018		
1/8/2019		
1/9/2019		
5/29/2019	<0.005	<0.005
5/30/2019		
9/30/2019		
10/1/2019		
10/2/2019	<0.005	<0.005
3/30/2020		
3/31/2020	<0.005	<0.005
9/1/2020		
9/2/2020		
9/9/2020	<0.005	<0.005

Time Series

Constituent: Lithium (mg/L) Analysis Run 12/11/2020 9:16 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-14	BY-AP-MW-15
3/1/2016		<0.02		<0.02					
3/2/2016	<0.02				<0.02		<0.02	<0.02	<0.02
4/19/2016	<0.02								<0.02
4/20/2016		<0.02		<0.02	<0.02		<0.02	<0.02	
6/8/2016	<0.02	<0.02		<0.02	<0.02		<0.02	<0.02	<0.02
8/30/2016								<0.02	
8/31/2016	<0.02	<0.02		<0.02	<0.02		<0.02		<0.02
10/18/2016								<0.02	
10/19/2016	<0.02	<0.02		<0.02	<0.02		<0.02		<0.02
1/31/2017	<0.02						<0.02	<0.02	<0.02
2/1/2017		<0.02		<0.02	<0.02				
5/2/2017	<0.02							<0.02	<0.02
5/3/2017		<0.02		<0.02	<0.02		<0.02		
6/6/2017	<0.02							<0.02	<0.02
6/7/2017		<0.02		<0.02	<0.02		<0.02		
1/22/2018							<0.02		<0.02
1/23/2018		<0.02		<0.02	<0.02			<0.02	
1/24/2018	<0.02								
5/1/2018	<0.02								<0.02
5/2/2018		<0.02		0.0384 (J)	<0.02		<0.02	<0.02	
11/27/2018								<0.02	0.0169 (J)
11/28/2018	<0.02	<0.02		0.0262	<0.02		<0.02		
1/8/2019			0.0313			0.0148 (J)			
5/29/2019	<0.02			0.0321	<0.02		<0.02	<0.02	0.0254
5/30/2019		<0.02							
7/31/2019									
9/30/2019		<0.02		0.0228					
10/1/2019	<0.02		<0.02		<0.02		<0.02	<0.02	0.0248
10/2/2019						<0.02			
3/30/2020	<0.02								
3/31/2020		<0.02	<0.02	0.022	<0.02	<0.02	<0.02	<0.02	
4/1/2020									0.0174 (J)
5/12/2020									
9/1/2020	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02		
9/2/2020								<0.02	<0.02

Time Series

Constituent: Lithium (mg/L) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16
3/1/2016		
3/2/2016		<0.02
4/19/2016		<0.02
4/20/2016		
6/8/2016		<0.02
8/30/2016		
8/31/2016		<0.02
10/18/2016		
10/19/2016		<0.02
1/31/2017		<0.02
2/1/2017		
5/2/2017		<0.02
5/3/2017		
6/6/2017		<0.02
6/7/2017		
1/22/2018		
1/23/2018		<0.02
1/24/2018		
5/1/2018		<0.02
5/2/2018		
11/27/2018		<0.02
11/28/2018		
1/8/2019		
5/29/2019		<0.02
5/30/2019		
7/31/2019	<0.02	
9/30/2019		
10/1/2019	<0.02	<0.02
10/2/2019		
3/30/2020		
3/31/2020		<0.02
4/1/2020		
5/12/2020	<0.02	
9/1/2020	<0.02	
9/2/2020		<0.02

Time Series

Constituent: Lithium (mg/L) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-3	BY-AP-MW-4
3/1/2016		<0.02
3/2/2016	<0.02	
4/19/2016	<0.02	<0.02
6/7/2016	<0.02	<0.02
6/8/2016		
8/30/2016		<0.02
8/31/2016	<0.02	
10/19/2016	<0.02	<0.02
1/31/2017	<0.02	<0.02
5/2/2017	<0.02	<0.02
6/6/2017	<0.02	<0.02
1/24/2018	<0.02	<0.02
5/1/2018	<0.02	<0.02
11/27/2018	<0.02	<0.02
1/8/2019		
3/20/2019		
5/29/2019	<0.02	<0.02
7/31/2019		
10/1/2019	<0.02	<0.02
10/2/2019		
3/30/2020		
3/31/2020	<0.02	<0.02
4/1/2020		
5/12/2020		
8/31/2020		
9/1/2020	<0.02	<0.02
9/2/2020		

Time Series

Constituent: Lithium (mg/L) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-GSA-MW-2 (bg)	BY-GSA-MW-3 (bg)
2/23/2016	<0.02	<0.02
3/1/2016		
4/19/2016	<0.02	<0.02
4/20/2016		
6/6/2016		
6/7/2016	<0.02	<0.02
6/8/2016		
8/30/2016	<0.02	<0.02
8/31/2016		
10/18/2016	<0.02	<0.02
10/19/2016		
1/31/2017	<0.02	<0.02
2/1/2017		
5/2/2017	<0.02	<0.02
5/3/2017		
6/6/2017	<0.02	<0.02
6/7/2017		
1/23/2018	<0.02	<0.02
1/24/2018		
5/1/2018	<0.02	<0.02
5/2/2018		
11/27/2018	<0.02	<0.02
11/28/2018		
1/8/2019		
1/9/2019		
5/29/2019	<0.02	<0.02
5/30/2019		
9/30/2019		
10/1/2019		
10/2/2019	<0.02	<0.02
12/2/2019		
3/30/2020		
3/31/2020	<0.02	<0.02
9/1/2020		
9/2/2020		
9/9/2020	<0.02	<0.02

Time Series

Constituent: Mercury (mg/L) Analysis Run 12/11/2020 9:16 AM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-14	BY-AP-MW-15
3/1/2016		<0.0005		<0.0005					
3/2/2016	<0.0005				<0.0005		<0.0005	<0.0005	<0.0005
4/19/2016	<0.0005								<0.0005
4/20/2016		<0.0005		<0.0005	<0.0005		<0.0005	<0.0005	
6/8/2016	<0.0005	<0.0005		<0.0005	<0.0005		<0.0005	<0.0005	<0.0005
8/30/2016								<0.0005	
8/31/2016	<0.0005	<0.0005		<0.0005	<0.0005		<0.0005		<0.0005
10/18/2016								<0.0005	
10/19/2016	<0.0005	<0.0005		<0.0005	<0.0005		<0.0005		<0.0005
1/31/2017	<0.0005						<0.0005	<0.0005	<0.0005
2/1/2017		<0.0005		<0.0005	<0.0005				
5/2/2017	<0.0005							<0.0005	<0.0005
5/3/2017		<0.0005		<0.0005	<0.0005		<0.0005		
6/6/2017	<0.0005							<0.0005	<0.0005
6/7/2017		<0.0005		<0.0005	<0.0005		<0.0005		
1/22/2018							<0.0005		<0.0005
1/23/2018		<0.0005		<0.0005	<0.0005			<0.0005	
1/24/2018	<0.0005								
5/1/2018	<0.0005								<0.0005
5/2/2018		<0.0005		<0.0005	<0.0005		<0.0005	<0.0005	
11/27/2018								<0.0005	<0.0005
11/28/2018	<0.0005	<0.0005		<0.0005	<0.0005		<0.0005		
1/8/2019			<0.0005			<0.0005			
5/29/2019	<0.0005			<0.0005	<0.0005		<0.0005	<0.0005	<0.0005
5/30/2019		<0.0005							
7/31/2019		<0.0005							
9/30/2019		<0.0005		<0.0005					
10/1/2019	<0.0005		<0.0005		<0.0005		<0.0005	<0.0005	<0.0005
10/2/2019						<0.0005			
3/30/2020	<0.0005								
3/31/2020		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
4/1/2020									<0.0005
5/12/2020									
9/1/2020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
9/2/2020								<0.0005	<0.0005

Time Series

Constituent: Mercury (mg/L) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16
3/1/2016		
3/2/2016		<0.0005
4/19/2016		<0.0005
4/20/2016		
6/8/2016		<0.0005
8/30/2016		
8/31/2016		<0.0005
10/18/2016		
10/19/2016		<0.0005
1/31/2017		<0.0005
2/1/2017		
5/2/2017		<0.0005
5/3/2017		
6/6/2017		<0.0005
6/7/2017		
1/22/2018		
1/23/2018		<0.0005
1/24/2018		
5/1/2018		<0.0005
5/2/2018		
11/27/2018		<0.0005
11/28/2018		
1/8/2019		
5/29/2019		<0.0005
5/30/2019		
7/31/2019	<0.0005	
9/30/2019		
10/1/2019	<0.0005	<0.0005
10/2/2019		
3/30/2020		
3/31/2020		<0.0005
4/1/2020		
5/12/2020	<0.0005	
9/1/2020	<0.0005	
9/2/2020		<0.0005

Time Series

Constituent: Mercury (mg/L) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-3	BY-AP-MW-4
3/1/2016		<0.0005
3/2/2016	<0.0005	
4/19/2016	<0.0005	<0.0005
6/7/2016	<0.0005	<0.0005
6/8/2016		
8/30/2016		<0.0005
8/31/2016	<0.0005	
10/19/2016	<0.0005	<0.0005
1/31/2017	<0.0005	<0.0005
5/2/2017	<0.0005	<0.0005
6/6/2017	<0.0005	<0.0005
1/24/2018	<0.0005	<0.0005
5/1/2018	<0.0005	<0.0005
11/27/2018	<0.0005	<0.0005
1/8/2019		
3/20/2019		
5/29/2019	<0.0005	<0.0005
7/31/2019		
10/1/2019	<0.0005	<0.0005
10/2/2019		
3/30/2020		
3/31/2020	<0.0005	<0.0005
4/1/2020		
5/12/2020		
8/31/2020		
9/1/2020	<0.0005	<0.0005
9/2/2020		

Time Series

Constituent: Mercury (mg/L) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-GSA-MW-2 (bg)	BY-GSA-MW-3 (bg)
2/23/2016	<0.0005	<0.0005
3/1/2016		
4/19/2016	<0.0005	<0.0005
4/20/2016		
6/6/2016		
6/7/2016	<0.0005	<0.0005
6/8/2016		
8/30/2016	<0.0005	<0.0005
8/31/2016		
10/18/2016	<0.0005	<0.0005
10/19/2016		
1/31/2017	<0.0005	<0.0005
2/1/2017		
5/2/2017	<0.0005	<0.0005
5/3/2017		
6/6/2017	<0.0005	<0.0005
6/7/2017		
1/23/2018	<0.0005	<0.0005
1/24/2018		
5/1/2018	<0.0005	<0.0005
5/2/2018		
11/27/2018	<0.0005	<0.0005
11/28/2018		
1/8/2019		
1/9/2019		
5/29/2019	<0.0005	<0.0005
5/30/2019		
9/30/2019		
10/1/2019		
10/2/2019	<0.0005	<0.0005
3/30/2020		
3/31/2020	<0.0005	<0.0005
9/1/2020		
9/2/2020		
9/9/2020	<0.0005	<0.0005

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 12/11/2020 9:16 AM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-14	BY-AP-MW-15
3/1/2016		<0.01		<0.01					
3/2/2016	<0.01				<0.01		<0.01	<0.01	0.00238 (J)
4/19/2016	<0.01								0.00203 (J)
4/20/2016		<0.01		<0.01	<0.01		<0.01	<0.01	
6/8/2016	<0.01	<0.01		<0.01	<0.01		<0.01	<0.01	<0.01
8/30/2016								<0.01	
8/31/2016	<0.01	<0.01		<0.01	<0.01		<0.01		<0.01
10/18/2016								<0.01	
10/19/2016	<0.01	<0.01		<0.01	<0.01		<0.01		<0.01
1/31/2017	<0.01						<0.01	<0.01	<0.01
2/1/2017		<0.01		<0.01	<0.01				
5/2/2017	<0.01							<0.01	0.00201 (J)
5/3/2017		<0.01		<0.01	<0.01		<0.01		
6/6/2017	<0.01							<0.01	<0.01
6/7/2017		<0.01		<0.01	<0.01		<0.01		
1/22/2018							<0.01		0.00211 (J)
1/23/2018		<0.01		<0.01	<0.01			<0.01	
1/24/2018	<0.01								
5/1/2018	<0.01								<0.01
5/2/2018		<0.01		<0.01	<0.01		<0.01	<0.01	
11/27/2018								<0.01	<0.01
11/28/2018	<0.01	<0.01		<0.01	<0.01		<0.01		
1/8/2019			0.00335 (J)			0.00303 (J)			
5/29/2019	<0.01			<0.01	<0.01		<0.01	<0.01	<0.01
5/30/2019		<0.01							
7/31/2019									
9/30/2019		<0.01		<0.01					
10/1/2019	<0.01		<0.01		<0.01		<0.01	<0.01	<0.01
10/2/2019						<0.01			
3/30/2020	<0.01								
3/31/2020		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
4/1/2020									<0.01
5/12/2020									
9/1/2020	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
9/2/2020								<0.01	0.00209 (J)

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16
3/1/2016		
3/2/2016		<0.01
4/19/2016		<0.01
4/20/2016		
6/8/2016		<0.01
8/30/2016		
8/31/2016		<0.01
10/18/2016		
10/19/2016		<0.01
1/31/2017		<0.01
2/1/2017		
5/2/2017		<0.01
5/3/2017		
6/6/2017		<0.01
6/7/2017		
1/22/2018		
1/23/2018		<0.01
1/24/2018		
5/1/2018		<0.01
5/2/2018		
11/27/2018		<0.01
11/28/2018		
1/8/2019		
5/29/2019		<0.01
5/30/2019		
7/31/2019	<0.01	
9/30/2019		
10/1/2019	<0.01	<0.01
10/2/2019		
3/30/2020		
3/31/2020		<0.01
4/1/2020		
5/12/2020	<0.01	
9/1/2020	<0.01	
9/2/2020		<0.01

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-3	BY-AP-MW-4
3/1/2016		<0.01
3/2/2016	<0.01	
4/19/2016	<0.01	<0.01
6/7/2016	<0.01	<0.01
6/8/2016		
8/30/2016		<0.01
8/31/2016	<0.01	
10/19/2016	<0.01	<0.01
1/31/2017	<0.01	<0.01
5/2/2017	<0.01	<0.01
6/6/2017	<0.01	<0.01
1/24/2018	<0.01	<0.01
5/1/2018	<0.01	<0.01
11/27/2018	<0.01	<0.01
1/8/2019		
3/20/2019		
5/29/2019	<0.01	<0.01
7/31/2019		
10/1/2019	<0.01	<0.01
10/2/2019		
3/30/2020		
3/31/2020	<0.01	<0.01
4/1/2020		
5/12/2020		
8/31/2020		
9/1/2020	<0.01	<0.01
9/2/2020		

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 12/11/2020 9:16 AM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-GSA-MW-2 (bg)	BY-GSA-MW-3 (bg)
2/23/2016	<0.01	<0.01
3/1/2016		
4/19/2016	<0.01	<0.01
4/20/2016		
6/6/2016		
6/7/2016	<0.01	<0.01
6/8/2016		
8/30/2016	<0.01	<0.01
8/31/2016		
10/18/2016	<0.01	<0.01
10/19/2016		
1/31/2017	<0.01	<0.01
2/1/2017		
5/2/2017	<0.01	<0.01
5/3/2017		
6/6/2017	<0.01	<0.01
6/7/2017		
1/23/2018	<0.01	<0.01
1/24/2018		
5/1/2018	<0.01	<0.01
5/2/2018		
11/27/2018	<0.01	<0.01
11/28/2018		
1/8/2019		
1/9/2019		
5/29/2019	<0.01	<0.01
5/30/2019		
9/30/2019		
10/1/2019		
10/2/2019	<0.01	<0.01
3/30/2020		
3/31/2020	<0.01	<0.01
9/1/2020		
9/2/2020		
9/9/2020	<0.01	<0.01

Time Series

Constituent: pH (pH) Analysis Run 12/11/2020 9:16 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-14	BY-AP-MW-15
3/1/2016		6.33		6.34					
3/2/2016	5.78				6.16		6.1	6.08	6.61
4/19/2016	5.8								6.75
4/20/2016		6.31		6.31	6.17		6.14	6.04	
6/8/2016	5.83	6.34		6.33	6.25		6.11	6.13	6.63
8/30/2016								6.08	
8/31/2016	5.85	6.35		6.29	6.23		6.1		6.71
10/18/2016								6.13	
10/19/2016	5.87	6.35		6.26	6.2		6.1		6.66
1/31/2017	5.83						6.07	6.06	6.73
2/1/2017		6.27		6.22	6.08				
3/21/2017	5.83								6.62
3/22/2017		6.29		6.22	6.12		6.07	6.09	
5/2/2017	5.73							5.94	6.49
5/3/2017		6.23		6.15	6.12		6.1		
6/6/2017	5.83							6.1	6.7
6/7/2017		6.27		6.21	6.13		6.07		
9/13/2017	5.91			6.26	6.19		6.12	6.11	6.66
9/14/2017		6.27							
1/22/2018							6.12		6.73
1/23/2018		6.32		6.28	6.17			6.12	
1/24/2018	5.9								
5/1/2018	5.83								6.62
5/2/2018		6.36		6.33	6.15		6.13	6.13	
8/28/2018	5.78	6.31							
8/29/2018				6.3	6.19		6.1	6.14	6.68
11/27/2018								6.07	6.58
11/28/2018	5.82	6.32		6.28	6.11		6.04		
1/8/2019			6.5			6.48			
5/29/2019	5.82			6.24	6.13		6.01	6.07	6.63
5/30/2019		6.23							
7/31/2019									
9/30/2019		6.11		5.85					
10/1/2019	5.47		6.05		6		6.02	6.01	6.2
10/2/2019						5.9			
3/30/2020	5.79								
3/31/2020		6.37	6.38	6.26	6.21	6.33	5.98	5.76	
4/1/2020									6.72
5/12/2020									
9/1/2020	5.89	6.33	6.34	5.87	6.19	6.2	5.82		
9/2/2020								5.8	6.57

Time Series

Constituent: pH (pH) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16
3/1/2016		
3/2/2016		5.79
4/19/2016		5.78
4/20/2016		
6/8/2016		5.8
8/30/2016		
8/31/2016		5.83
10/18/2016		
10/19/2016		5.81
1/31/2017		5.84
2/1/2017		
3/21/2017		5.79
3/22/2017		
5/2/2017		5.68
5/3/2017		
6/6/2017		5.8
6/7/2017		
9/13/2017		5.86
9/14/2017		
1/22/2018		
1/23/2018		5.86
1/24/2018		
5/1/2018		5.85
5/2/2018		
8/28/2018		
8/29/2018		5.87
11/27/2018		5.76
11/28/2018		
1/8/2019		
5/29/2019		5.76
5/30/2019		
7/31/2019	5.37	
9/30/2019		
10/1/2019	5.68	5.23
10/2/2019		
3/30/2020		
3/31/2020		5.75
4/1/2020		
5/12/2020	5.68	
9/1/2020	5.91	
9/2/2020		5.47

Time Series

Constituent: pH (pH) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-3	BY-AP-MW-4
3/1/2016		5.19
3/2/2016	5.14	
4/19/2016	5.06	5.06
6/7/2016	5.13	4.7
6/8/2016		
8/30/2016		4.77
8/31/2016	5.11	
10/19/2016	5.05	4.67
1/31/2017	5.14	4.42
3/21/2017	5.13	4.45
5/2/2017	4.85	4.46
6/6/2017	5.15	4.89
9/12/2017	4.96	4.71
1/24/2018	5.22	5.03
5/1/2018	5.11	4.44
8/28/2018	4.92	4.85
11/27/2018	5.05	4.78
1/8/2019		
3/20/2019		
5/29/2019	5.05	4.65
7/31/2019		
10/1/2019	4.37	4.28
10/2/2019		
3/30/2020		
3/31/2020	5.08	4.69
4/1/2020		
5/12/2020		
8/31/2020		
9/1/2020	4.24	4.23
9/2/2020		

Time Series

Constituent: pH (pH) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-GSA-MW-2 (bg)	BY-GSA-MW-3 (bg)
2/23/2016	4.79	4.96
3/1/2016		
4/19/2016	4.84	4.94
4/20/2016		
6/6/2016		
6/7/2016	4.81	4.96
6/8/2016		
8/30/2016	4.76	4.92
8/31/2016		
10/18/2016	4.84	4.98
10/19/2016		
1/31/2017	4.6	4.74
2/1/2017		
3/20/2017	4.71	4.9
3/22/2017		
5/2/2017	4.8	4.98
5/3/2017		
6/6/2017	4.72	4.94
6/7/2017		
9/13/2017	4.71	4.93
9/14/2017		
1/23/2018	4.67	4.91
1/24/2018		
5/1/2018	4.61	4.87
5/2/2018		
8/28/2018		
8/29/2018		
11/27/2018	4.72	4.94
11/28/2018		
1/8/2019		
1/9/2019		
5/29/2019	4.58	4.8
5/30/2019		
9/30/2019		
10/1/2019		
10/2/2019	4.43	4.52
3/30/2020		
3/31/2020	4.6	4.4
9/1/2020		
9/2/2020		
9/9/2020	4.67	4.76

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/11/2020 9:16 AM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-14	BY-AP-MW-15
3/1/2016		<0.01		<0.01					
3/2/2016	<0.01				<0.01		<0.01	<0.01	<0.01
4/19/2016	<0.01								<0.01
4/20/2016		<0.01		<0.01	<0.01		<0.01	<0.01	
6/8/2016	<0.01	<0.01		<0.01	<0.01		<0.01	<0.01	<0.01
8/30/2016								<0.01	
8/31/2016	<0.01	<0.01		<0.01	<0.01		<0.01		<0.01
10/18/2016								<0.01	
10/19/2016	<0.01	<0.01		<0.01	<0.01		<0.01		<0.01
1/31/2017	<0.01						<0.01	<0.01	<0.01
2/1/2017		<0.01		<0.01	<0.01				
5/2/2017	<0.01							<0.01	<0.01
5/3/2017		<0.01		<0.01	<0.01		<0.01		
6/6/2017	<0.01							<0.01	<0.01
6/7/2017		<0.01		<0.01	<0.01		<0.01		
1/22/2018							<0.01		<0.01
1/23/2018		<0.01		<0.01	<0.01			<0.01	
1/24/2018	<0.01								
5/1/2018	<0.01								<0.01
5/2/2018		<0.01		<0.01	<0.01		<0.01	<0.01	
11/27/2018								<0.01	<0.01
11/28/2018	<0.01	<0.01		<0.01	<0.01		<0.01		
1/8/2019			<0.01			<0.01			
5/29/2019	<0.01			<0.01	<0.01		<0.01	<0.01	<0.01
5/30/2019		<0.01							
7/31/2019									
9/30/2019		<0.01		<0.01					
10/1/2019	<0.01		<0.01		<0.01		<0.01	<0.01	<0.01
10/2/2019						<0.01			
3/30/2020	<0.01								
3/31/2020		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
4/1/2020									<0.01
5/12/2020									
9/1/2020	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
9/2/2020								<0.01	<0.01

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16
3/1/2016		
3/2/2016		<0.01
4/19/2016		<0.01
4/20/2016		
6/8/2016		<0.01
8/30/2016		
8/31/2016		<0.01
10/18/2016		
10/19/2016		<0.01
1/31/2017		<0.01
2/1/2017		
5/2/2017		<0.01
5/3/2017		
6/6/2017		<0.01
6/7/2017		
1/22/2018		
1/23/2018		<0.01
1/24/2018		
5/1/2018		<0.01
5/2/2018		
11/27/2018		<0.01
11/28/2018		
1/8/2019		
5/29/2019		<0.01
5/30/2019		
7/31/2019	<0.01	
9/30/2019		
10/1/2019	<0.01	<0.01
10/2/2019		
3/30/2020		
3/31/2020		<0.01
4/1/2020		
5/12/2020	<0.01	
9/1/2020	<0.01	
9/2/2020		<0.01

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-3	BY-AP-MW-4
3/1/2016		<0.01
3/2/2016	<0.01	
4/19/2016	<0.01	<0.01
6/7/2016	<0.01	<0.01
6/8/2016		
8/30/2016		<0.01
8/31/2016	<0.01	
10/19/2016	<0.01	<0.01
1/31/2017	<0.01	<0.01
5/2/2017	<0.01	<0.01
6/6/2017	<0.01	<0.01
1/24/2018	<0.01	<0.01
5/1/2018	<0.01	<0.01
11/27/2018	<0.01	<0.01
1/8/2019		
3/20/2019		
5/29/2019	<0.01	<0.01
7/31/2019		
10/1/2019	<0.01	<0.01
10/2/2019		
3/30/2020		
3/31/2020	<0.01	<0.01
4/1/2020		
5/12/2020		
8/31/2020		
9/1/2020	<0.01	<0.01
9/2/2020		

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-GSA-MW-2 (bg)	BY-GSA-MW-3 (bg)
2/23/2016	<0.01	<0.01
3/1/2016		
4/19/2016	<0.01	<0.01
4/20/2016		
6/6/2016		
6/7/2016	<0.01	<0.01
6/8/2016		
8/30/2016	<0.01	<0.01
8/31/2016		
10/18/2016	<0.01	<0.01
10/19/2016		
1/31/2017	<0.01	<0.01
2/1/2017		
5/2/2017	<0.01	<0.01
5/3/2017		
6/6/2017	<0.01	<0.01
6/7/2017		
1/23/2018	<0.01	<0.01
1/24/2018		
5/1/2018	<0.01	<0.01
5/2/2018		
11/27/2018	<0.01	<0.01
11/28/2018		
1/8/2019		
1/9/2019		
5/29/2019	<0.01	<0.01
5/30/2019		
9/30/2019		
10/1/2019		
10/2/2019	<0.01	<0.01
3/30/2020		
3/31/2020	<0.01	<0.01
9/1/2020		
9/2/2020		
9/9/2020	<0.01	<0.01

Time Series

Constituent: Sulfate (mg/L) Analysis Run 12/11/2020 9:16 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-14	BY-AP-MW-15
3/1/2016		0.34 (J)		1.02					
3/2/2016	0.31 (J)				<1		<1	<1	<1
4/19/2016	0.335 (J)								<1
4/20/2016		<1		1.1	<1		<1	<1	
6/8/2016	0.556 (J)	0.538 (J)		0.701 (J)	0.511 (J)		0.496 (J)	0.514 (J)	0.489 (J)
8/30/2016								<1	
8/31/2016	<1	<1		<1	<1		<1		<1
10/18/2016								<1	
10/19/2016	<1	<1		<1	<1		<1		<1
3/21/2017	<1								<1
3/22/2017		<1		2.1 (J)	<1		6.9	<1	
5/2/2017	6							1.8 (J)	<1
5/3/2017		4.1 (J)		3.6 (J)	2.1 (J)		6.6		
6/6/2017	<1							<1	<1
6/7/2017		<1		<1	<1		6		
9/13/2017	4.7 (J)			<1	<1		2.2 (J)	<1	<1
9/14/2017		<1							
5/1/2018	<1								<1
5/2/2018		<1		<1	<1		4.1 (J)	1.6 (J)	
8/28/2018	<1	<1							
8/29/2018				2.3 (J)	<1		<1	<1	6.2
11/27/2018								<1	<1
11/28/2018	4.1 (J)	<1		<1	<50 (o)		4.9 (J)		
1/8/2019			93.7			10.3			
5/29/2019	5.75			24.1	7.04		49.5	67.6	3.27
5/30/2019		3.76							
7/31/2019									
9/30/2019		2.77		37.4					
10/1/2019	7.82		5.19		35.3		47.7	61.6	1.72
10/2/2019						7.18			
3/30/2020	28.4								
3/31/2020		20.1	20.3	57.5	35.8	61.1	23.2	34.7	
4/1/2020									7.5
5/12/2020									
9/1/2020	23.1	15.6	30.1	42.8	32.1	47.5	14.2		
9/2/2020								18.5	7.61

Time Series

Constituent: Sulfate (mg/L) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16
3/1/2016		
3/2/2016		<1
4/19/2016		<1
4/20/2016		
6/8/2016		0.514 (J)
8/30/2016		
8/31/2016		<1
10/18/2016		
10/19/2016		<1
3/21/2017		<1
3/22/2017		
5/2/2017		<1
5/3/2017		
6/6/2017		<1
6/7/2017		
9/13/2017		2.6 (J)
9/14/2017		
5/1/2018		<1
5/2/2018		
8/28/2018		
8/29/2018		3.9 (J)
11/27/2018		<1
11/28/2018		
1/8/2019		
5/29/2019		6.72
5/30/2019		
7/31/2019	2.65	
9/30/2019		
10/1/2019	0.854 (J)	3.4
10/2/2019		
3/30/2020		
3/31/2020		17.5
4/1/2020		
5/12/2020	1.61	
9/1/2020	2.21	
9/2/2020		13.3

Time Series

Constituent: Sulfate (mg/L) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-3	BY-AP-MW-4
3/1/2016		2.58
3/2/2016	0.79 (J)	
4/19/2016	0.674 (J)	2.3
6/7/2016	1	2.58
6/8/2016		
8/30/2016		2.81
8/31/2016	0.702 (J)	
10/19/2016	0.739 (J)	5.06
3/21/2017	<1	3.4 (J)
5/2/2017	<1	2.7 (J)
6/6/2017	<1	1.5 (J)
9/12/2017	<1	1.9 (J)
5/1/2018	<1	1.4 (J)
8/28/2018	<1	<1
11/27/2018	<1	2.3 (J)
1/8/2019		
3/20/2019		
5/29/2019	0.747 (J)	2.92
7/31/2019		
10/1/2019	0.61 (J)	2.09
10/2/2019		
3/30/2020		
3/31/2020	1.02	4.12
4/1/2020		
5/12/2020		
8/31/2020		
9/1/2020	0.705 (J)	1.83
9/2/2020		

Time Series

Constituent: Sulfate (mg/L) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-GSA-MW-2 (bg)	BY-GSA-MW-3 (bg)
2/23/2016	7.2	7.44
3/1/2016		
4/19/2016	7.22	7.66
4/20/2016		
6/6/2016		
6/7/2016	7.92	8.16
6/8/2016		
8/30/2016	8.17	8.43
8/31/2016		
10/18/2016	7.99	8.47
10/19/2016		
3/20/2017	6.1	7.4
3/22/2017		
5/2/2017	5 (D)	6.3 (D)
5/3/2017		
6/6/2017	5.3 (D)	7.1 (D)
6/7/2017		
9/13/2017	4.9 (J)	7.3
9/14/2017		
5/1/2018	4.2 (J)	6.9
5/2/2018		
8/28/2018		
8/29/2018		
11/27/2018		6.5
11/28/2018		
1/8/2019		
1/9/2019		
5/29/2019	5.94	7.81
5/30/2019		
9/30/2019		
10/1/2019		
10/2/2019	6.04	7.62
3/30/2020		
3/31/2020	6.83	7.98
9/1/2020		
9/2/2020		
9/9/2020	6.08	7.13

Time Series

Constituent: TDS (mg/L) Analysis Run 12/11/2020 9:16 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-14	BY-AP-MW-15
3/1/2016		326		395					
3/2/2016	426				351		319	266	182
4/19/2016	442								151
4/20/2016		366		376	353		305	311	
6/8/2016	461	314		324	330		287	353	168
8/30/2016								328	
8/31/2016	456	368		367	354		295		188
10/18/2016								310	
10/19/2016	444	381		367	354		305		180
1/31/2017	422						325	312	166
2/1/2017		342		391	360				
5/2/2017	442							300	183
5/3/2017		369		373	341		306		
6/6/2017	433							335	187
6/7/2017		340		367	337		320		
9/13/2017	456			378	359		332	339	202
9/14/2017		391							
5/1/2018	416								197
5/2/2018		343		330	310		320	301	
8/28/2018	420	375							
8/29/2018				352	307		312	318	192
11/27/2018								295	190
11/28/2018	408	378		357	336		304		
1/8/2019			462			348			
5/29/2019	403			367	321		307	318	198
5/30/2019		377							
7/31/2019									
9/30/2019		361		399					
10/1/2019	430		393		344		290	317	236
10/2/2019						321			
3/30/2020	419								
3/31/2020		387	413	393	331	328	290	317	
4/1/2020									231
5/12/2020									
9/1/2020	454	392	403	399	356	338	285		
9/2/2020								327	208

Time Series

Constituent: TDS (mg/L) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16
3/1/2016		
3/2/2016		263
4/19/2016		259
4/20/2016		
6/8/2016		285
8/30/2016		
8/31/2016		279
10/18/2016		
10/19/2016		264
1/31/2017		270
2/1/2017		
5/2/2017		259
5/3/2017		
6/6/2017		278
6/7/2017		
9/13/2017		333
9/14/2017		
5/1/2018		274
5/2/2018		
8/28/2018		
8/29/2018		283
11/27/2018		250
11/28/2018		
1/8/2019		
5/29/2019		264
5/30/2019		
7/31/2019	337	
9/30/2019		
10/1/2019	321	295
10/2/2019		
3/30/2020		
3/31/2020		276
4/1/2020		
5/12/2020	327	
9/1/2020	318	
9/2/2020		279

Time Series

Constituent: TDS (mg/L) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-3	BY-AP-MW-4
3/1/2016		27.3
3/2/2016	27.3	
4/19/2016	33.3	38
6/7/2016	44	48.7
6/8/2016		
8/30/2016		32.7
8/31/2016	29.3	
10/19/2016	29.3	36
1/31/2017	36.7	40.7
5/2/2017	28	30.7
6/6/2017	36.7	41.3
9/12/2017	35.3	34.7
5/1/2018	34.7	39.3
8/28/2018	34	26
11/27/2018	41.3	32
1/8/2019		
3/20/2019		
5/29/2019	40	39.3
7/31/2019		
10/1/2019	36.7	32
10/2/2019		
3/30/2020		
3/31/2020	37.3	42.7
4/1/2020		
5/12/2020		
8/31/2020		
9/1/2020	39.3	36
9/2/2020		

Time Series

Constituent: TDS (mg/L) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-GSA-MW-2 (bg)	BY-GSA-MW-3 (bg)
2/23/2016	30.7	40
3/1/2016		
4/19/2016	<25	32
4/20/2016		
6/6/2016		
6/7/2016	35.3	38.7
6/8/2016		
8/30/2016	27.3	31.3
8/31/2016		
10/18/2016	<25	26.7
10/19/2016		
1/31/2017	32.7	30
2/1/2017		
5/2/2017	30.7	30.7
5/3/2017		
6/6/2017	34.7	32.7
6/7/2017		
9/13/2017	39.3	38
9/14/2017		
5/1/2018	42	35.3
5/2/2018		
8/28/2018		
8/29/2018		
11/27/2018	31.3	36
11/28/2018		
1/8/2019		
1/9/2019		
5/29/2019	40	37.3
5/30/2019		
9/30/2019		
10/1/2019		
10/2/2019	41.3	36.7
3/30/2020		
3/31/2020	40	39.3
9/1/2020		
9/2/2020		
9/9/2020	40.7	42.7

Time Series

Constituent: Thallium (mg/L) Analysis Run 12/11/2020 9:16 AM

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-14	BY-AP-MW-15
3/1/2016		<0.001		<0.001					
3/2/2016	<0.001				<0.001		<0.001	<0.001	<0.001
4/19/2016	<0.001								<0.001
4/20/2016		<0.001		<0.001	<0.001		<0.001	<0.001	
6/8/2016	<0.001	<0.001		<0.001	<0.001		<0.001	<0.001	<0.001
8/30/2016								<0.001	
8/31/2016	<0.001	<0.001		<0.001	<0.001		<0.001		<0.001
10/18/2016								<0.001	
10/19/2016	<0.001	<0.001		<0.001	<0.001		<0.001		<0.001
1/31/2017	<0.001						<0.001	<0.001	<0.001
2/1/2017		<0.001		<0.001	<0.001				
5/2/2017	<0.001							<0.001	<0.001
5/3/2017		<0.001		<0.001	<0.001		<0.001		
6/6/2017	<0.001							<0.001	<0.001
6/7/2017		<0.001		<0.001	<0.001		0.000878 (J)		
1/22/2018							<0.001		<0.001
1/23/2018		<0.001		<0.001	<0.001			<0.001	
1/24/2018	<0.001								
5/1/2018	<0.001								<0.001
5/2/2018		<0.001		<0.001	<0.001		<0.001	<0.001	
11/27/2018								<0.001	<0.001
11/28/2018	<0.001	<0.001		<0.001	<0.001		<0.001		
1/8/2019			<0.001			<0.001			
5/29/2019	<0.001			<0.001	<0.001		<0.001	<0.001	<0.001
5/30/2019		<0.001							
7/31/2019									
9/30/2019		<0.001		<0.001					
10/1/2019	<0.001		<0.001		<0.001		<0.001	<0.001	<0.001
10/2/2019						<0.001			
3/30/2020	<0.001								
3/31/2020		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
4/1/2020									<0.001
5/12/2020									
9/1/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
9/2/2020								<0.001	<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16
3/1/2016		
3/2/2016		<0.001
4/19/2016		<0.001
4/20/2016		
6/8/2016		<0.001
8/30/2016		
8/31/2016		<0.001
10/18/2016		
10/19/2016		<0.001
1/31/2017		<0.001
2/1/2017		
5/2/2017		<0.001
5/3/2017		
6/6/2017		<0.001
6/7/2017		
1/22/2018		
1/23/2018		<0.001
1/24/2018		
5/1/2018		<0.001
5/2/2018		
11/27/2018		<0.001
11/28/2018		
1/8/2019		
5/29/2019		<0.001
5/30/2019		
7/31/2019	<0.001	
9/30/2019		
10/1/2019	<0.001	<0.001
10/2/2019		
3/30/2020		
3/31/2020		<0.001
4/1/2020		
5/12/2020	<0.001	
9/1/2020	<0.001	
9/2/2020		<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-3	BY-AP-MW-4
3/1/2016		<0.001
3/2/2016	<0.001	
4/19/2016	<0.001	<0.001
6/7/2016	<0.001	<0.001
6/8/2016		
8/30/2016		<0.001
8/31/2016	<0.001	
10/19/2016	<0.001	<0.001
1/31/2017	<0.001	<0.001
5/2/2017	<0.001	<0.001
6/6/2017	<0.001	<0.001
1/24/2018	<0.001	<0.001
5/1/2018	<0.001	<0.001
11/27/2018	<0.001	<0.001
1/8/2019		
3/20/2019		
5/29/2019	<0.001	<0.001
7/31/2019		
10/1/2019	<0.001	<0.001
10/2/2019		
3/30/2020		
3/31/2020	<0.001	<0.001
4/1/2020		
5/12/2020		
8/31/2020		
9/1/2020	<0.001	<0.001
9/2/2020		

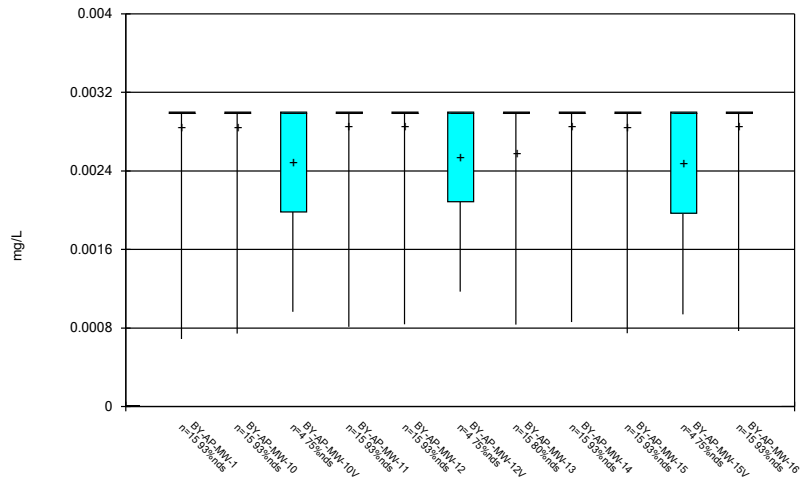
Time Series

Constituent: Thallium (mg/L) Analysis Run 12/11/2020 9:16 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-GSA-MW-2 (bg)	BY-GSA-MW-3 (bg)
2/23/2016	<0.001	<0.001
3/1/2016		
4/19/2016	<0.001	<0.001
4/20/2016		
6/6/2016		
6/7/2016	<0.001	<0.001
6/8/2016		
8/30/2016	<0.001	<0.001
8/31/2016		
10/18/2016	<0.001	<0.001
10/19/2016		
1/31/2017	<0.001	<0.001
2/1/2017		
5/2/2017	<0.001	<0.001
5/3/2017		
6/6/2017	<0.001	<0.001
6/7/2017		
1/23/2018	<0.001	<0.001
1/24/2018		
5/1/2018	<0.001	<0.001
5/2/2018		
11/27/2018	<0.001	<0.001
11/28/2018		
1/8/2019		
1/9/2019		
5/29/2019	<0.001	<0.001
5/30/2019		
9/30/2019		
10/1/2019		
10/2/2019	<0.001	<0.001
3/30/2020		
3/31/2020	<0.001	<0.001
9/1/2020		
9/2/2020		
9/9/2020	<0.001	<0.001

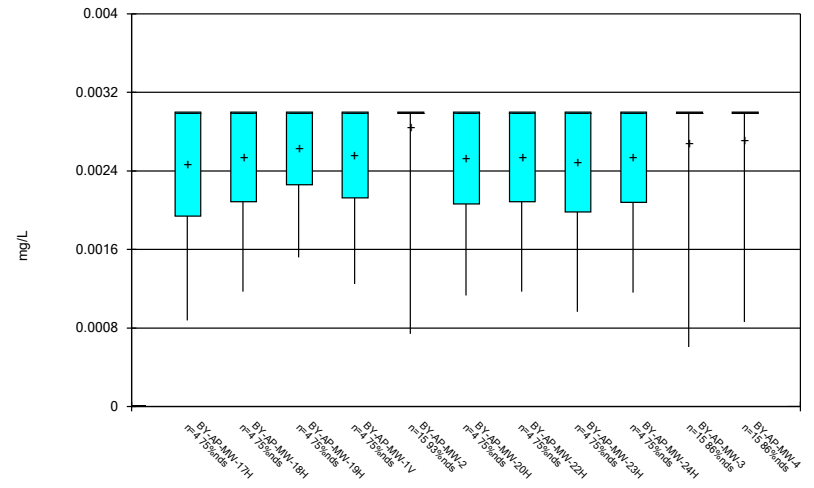
FIGURE B.

Box & Whiskers Plot



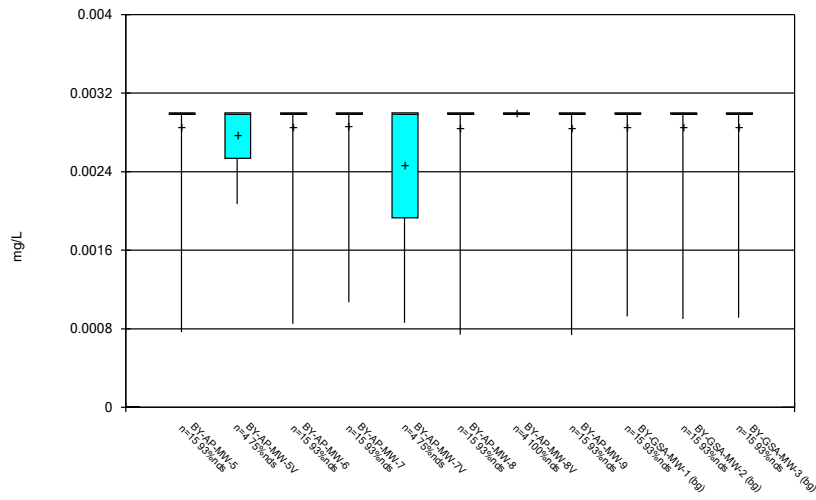
Constituent: Antimony Analysis Run 12/11/2020 9:17 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



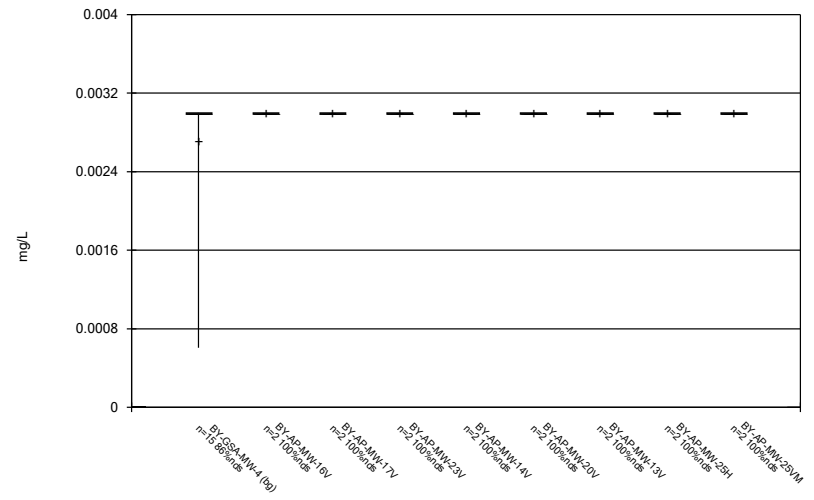
Constituent: Antimony Analysis Run 12/11/2020 9:17 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



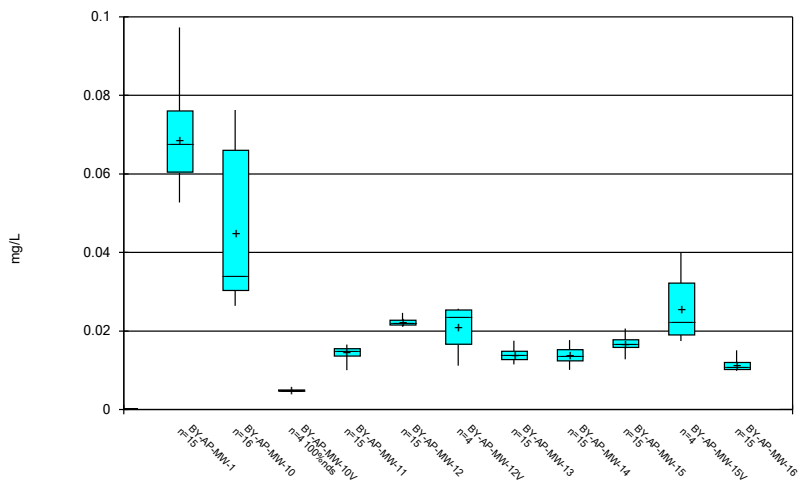
Constituent: Antimony Analysis Run 12/11/2020 9:17 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



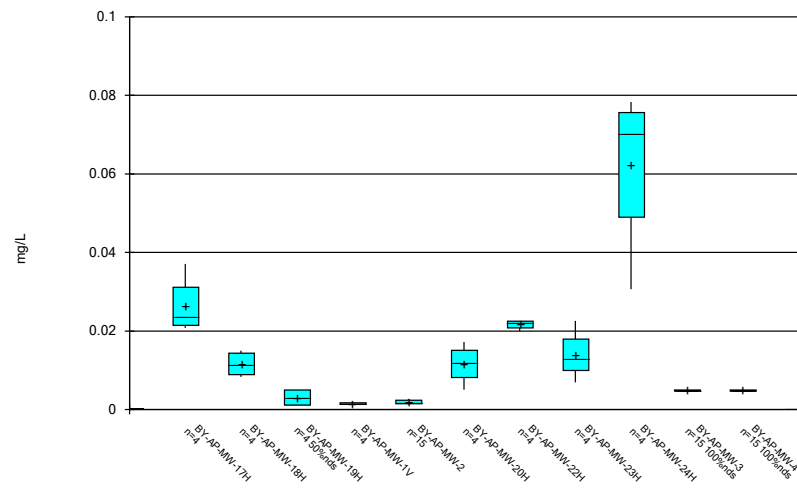
Constituent: Antimony Analysis Run 12/11/2020 9:17 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



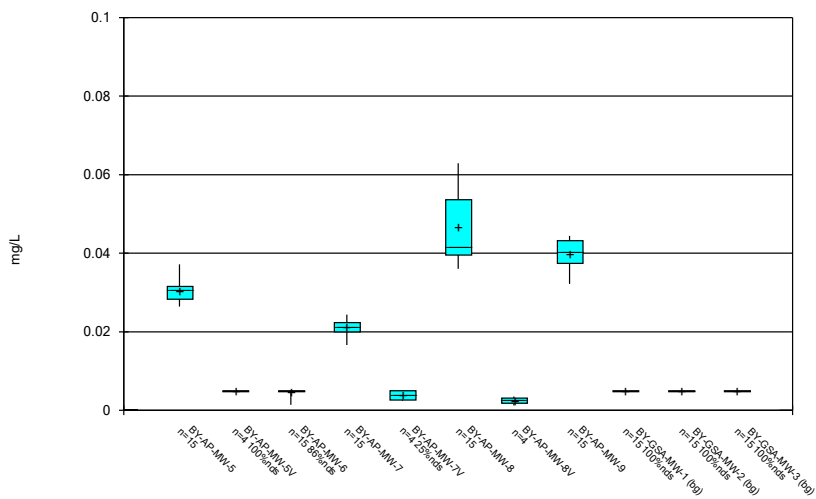
Constituent: Arsenic Analysis Run 12/11/2020 9:17 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



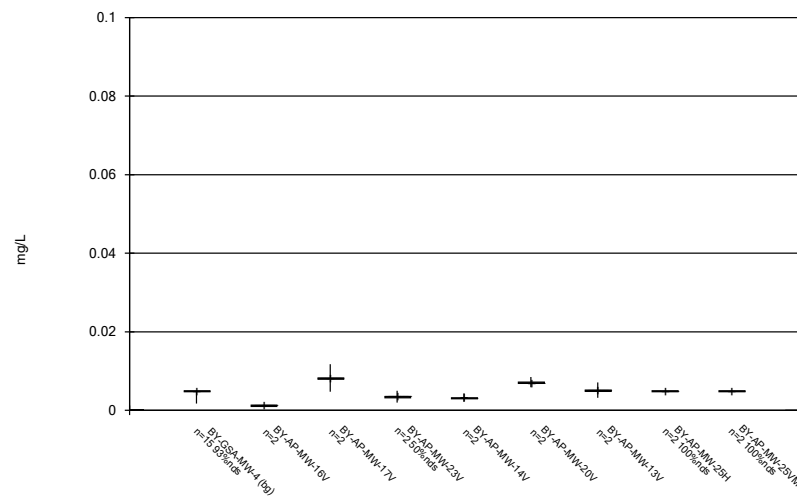
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



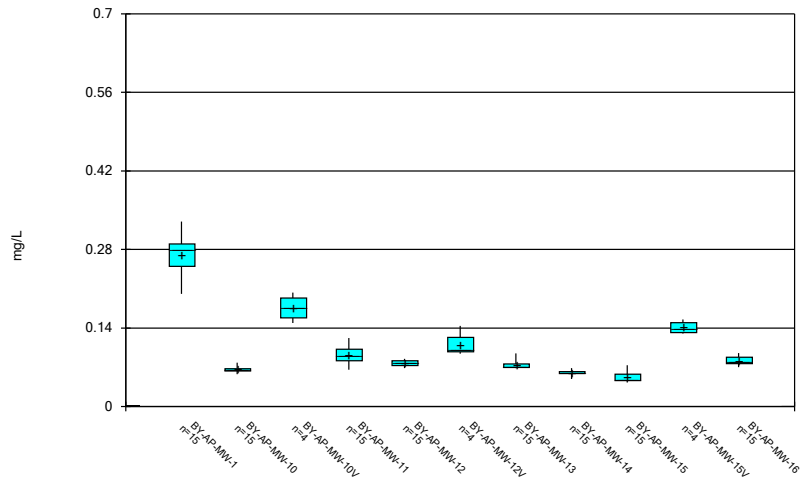
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



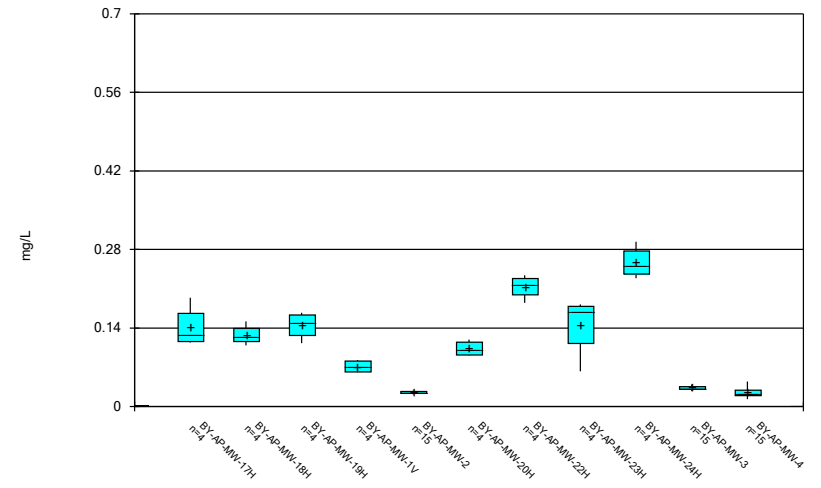
Constituent: Arsenic Analysis Run 12/11/2020 9:17 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



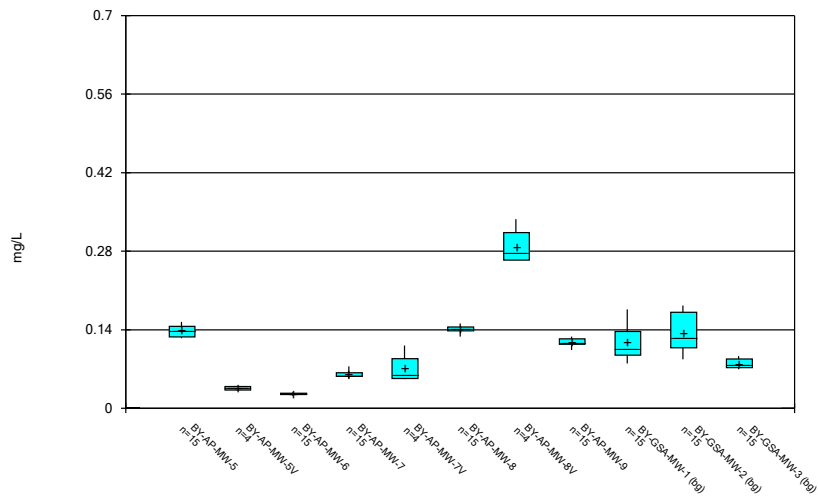
Constituent: Barium Analysis Run 12/11/2020 9:17 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



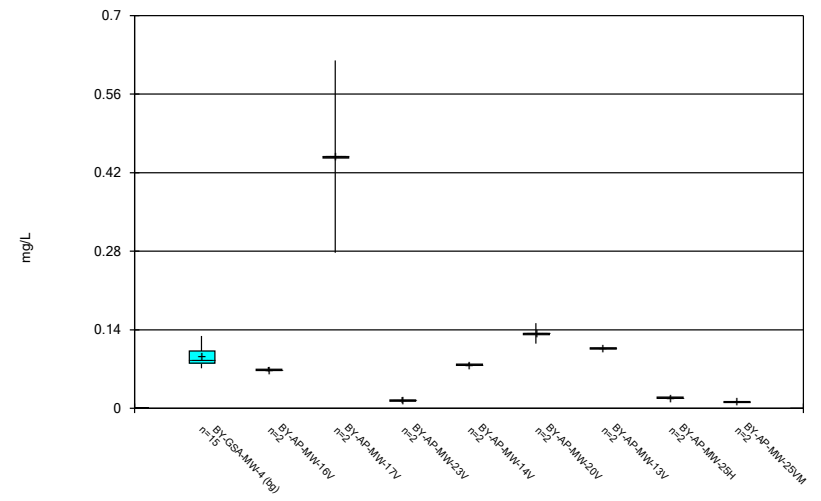
Constituent: Barium Analysis Run 12/11/2020 9:17 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



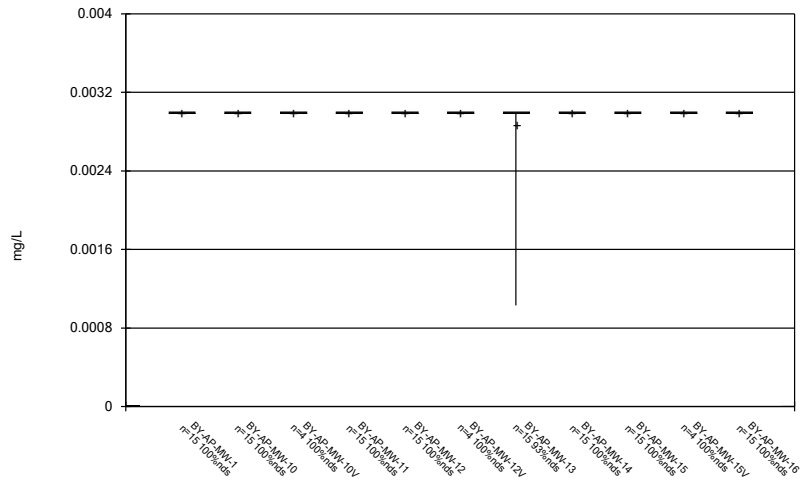
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



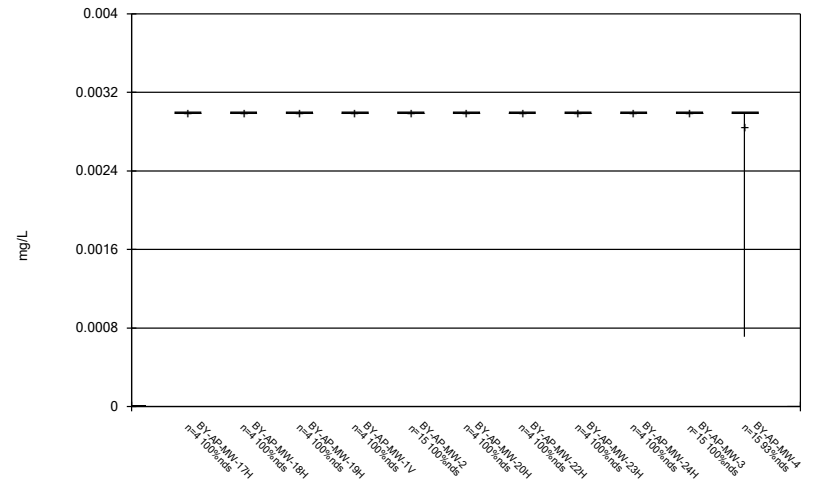
Constituent: Barium Analysis Run 12/11/2020 9:17 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



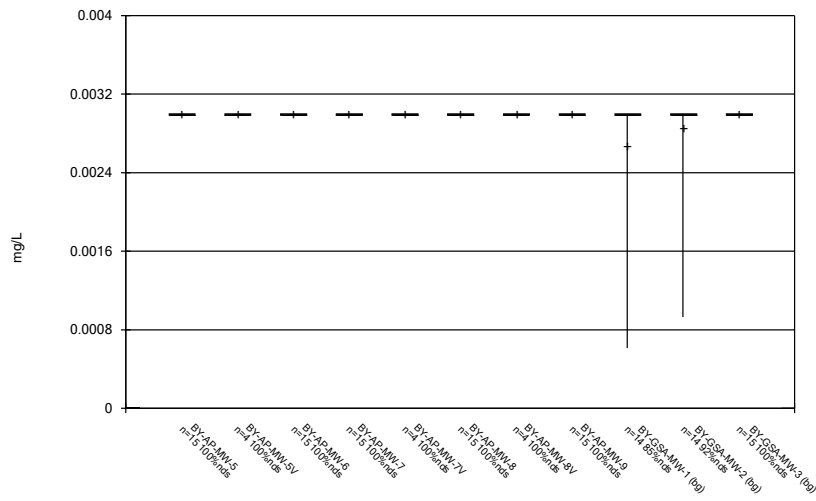
Constituent: Beryllium Analysis Run 12/11/2020 9:17 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



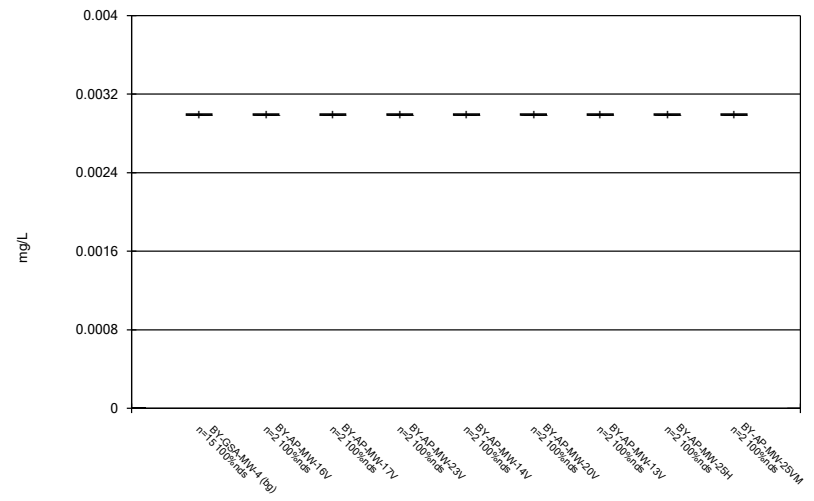
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



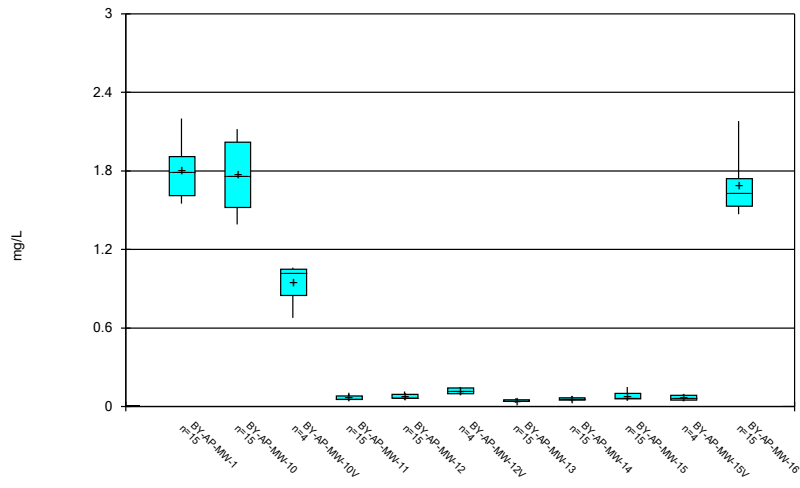
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



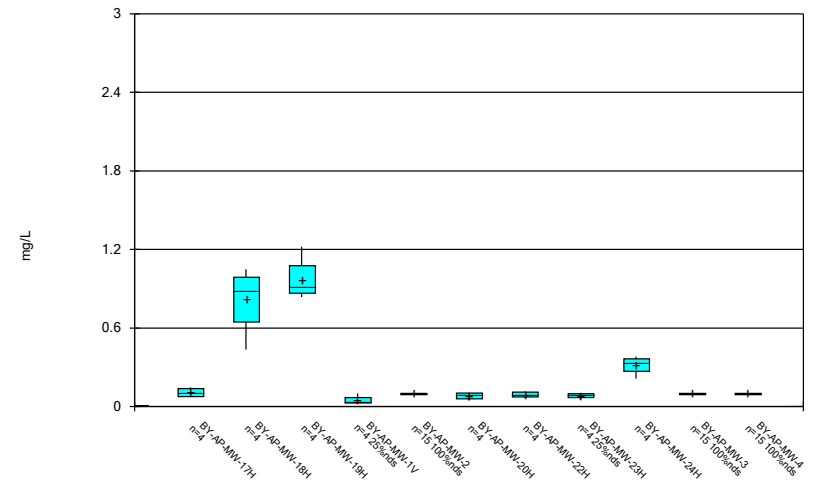
Constituent: Beryllium Analysis Run 12/11/2020 9:17 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



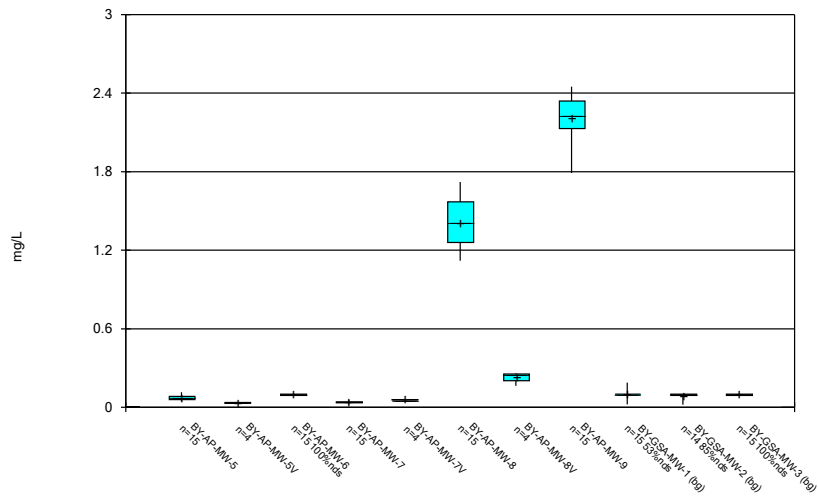
Constituent: Boron Analysis Run 12/11/2020 9:17 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



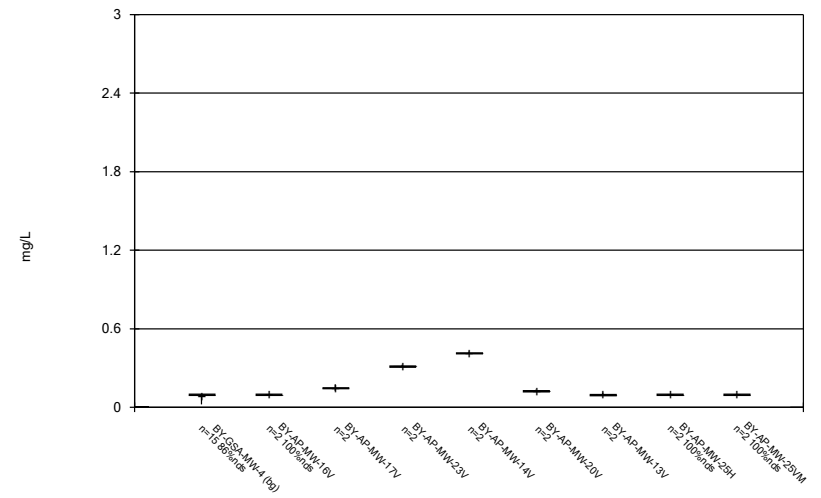
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



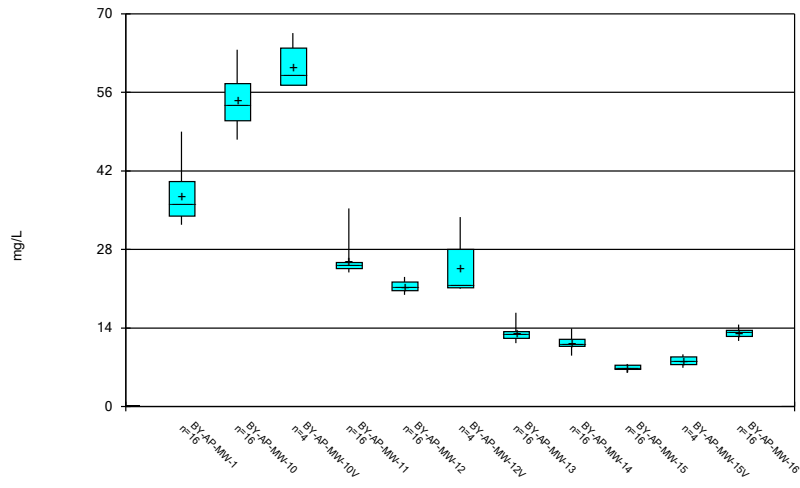
Constituent: Boron Analysis Run 12/11/2020 9:17 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



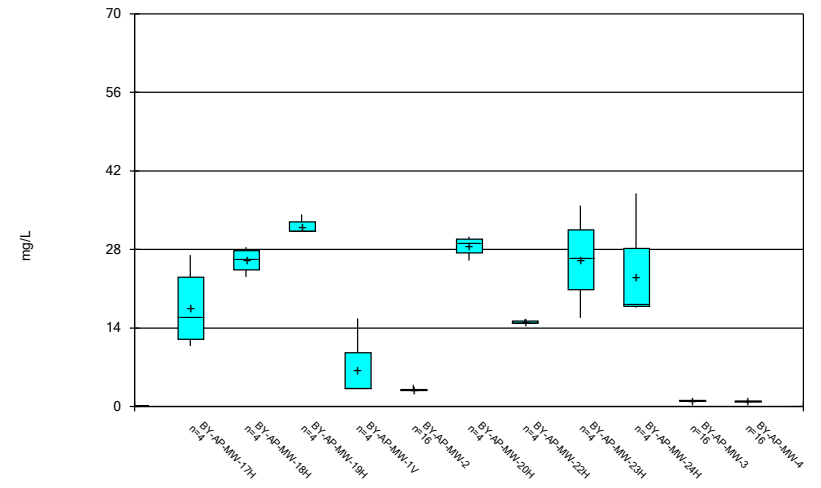
Constituent: Boron Analysis Run 12/11/2020 9:17 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



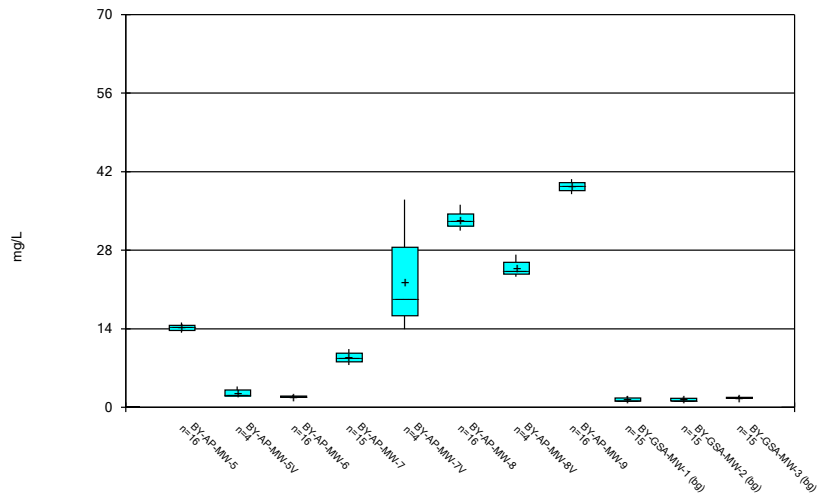
Constituent: Calcium Analysis Run 12/11/2020 9:17 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



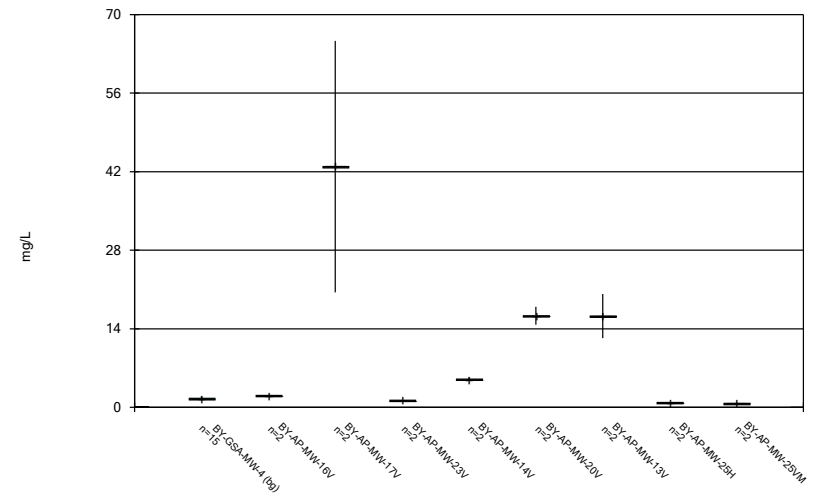
Constituent: Calcium Analysis Run 12/11/2020 9:17 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



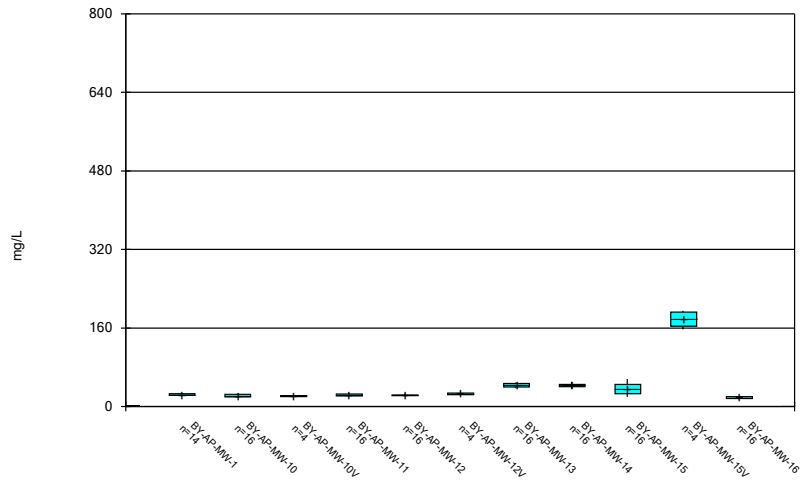
Constituent: Calcium Analysis Run 12/11/2020 9:17 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



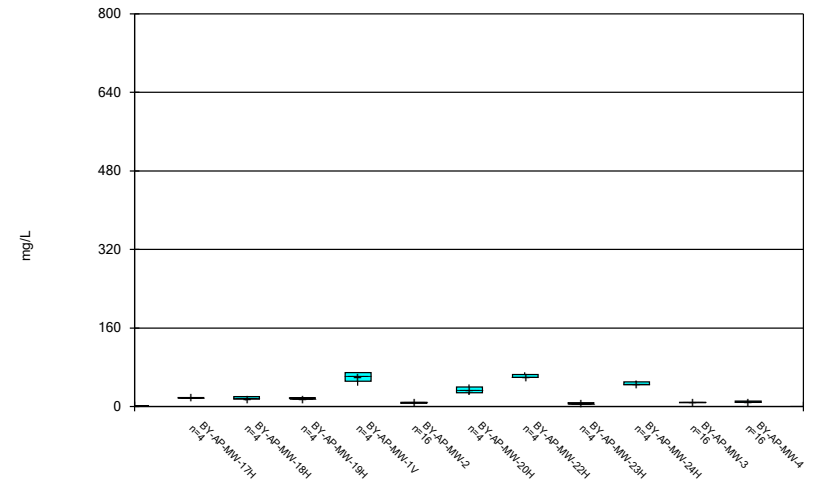
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



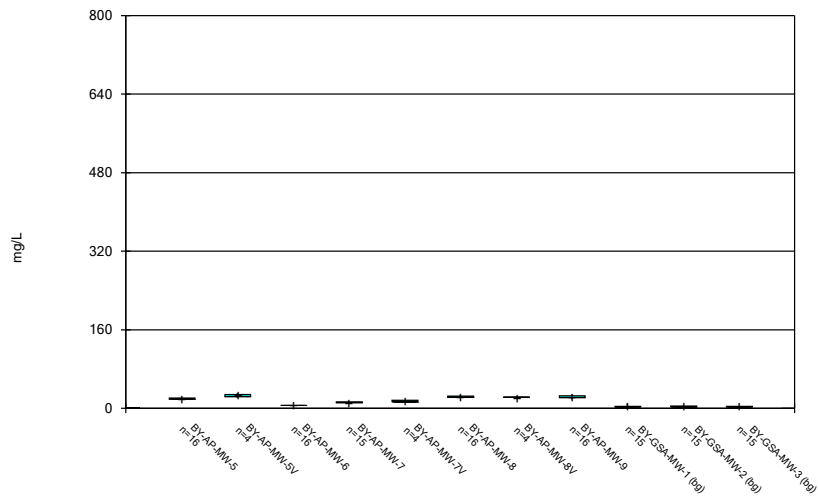
Constituent: Chloride Analysis Run 12/11/2020 9:17 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



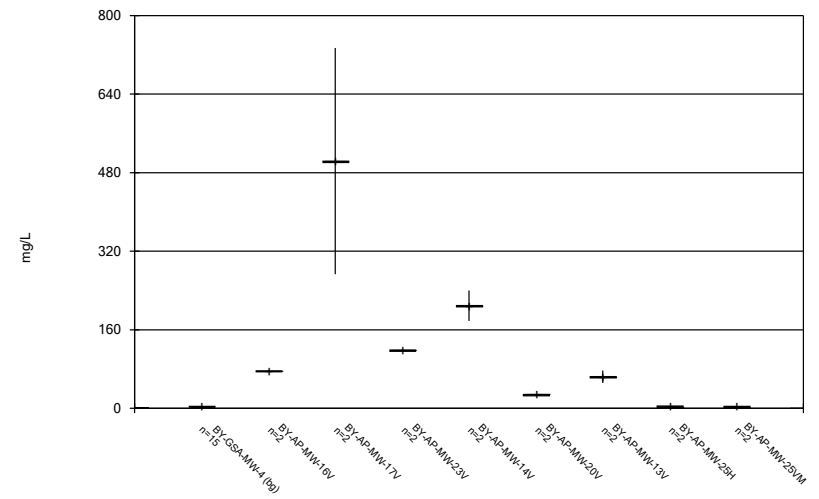
Constituent: Chloride Analysis Run 12/11/2020 9:17 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



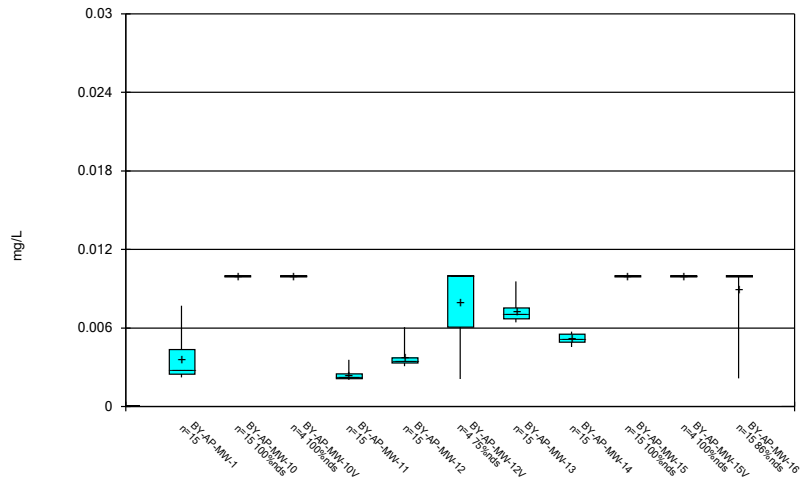
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



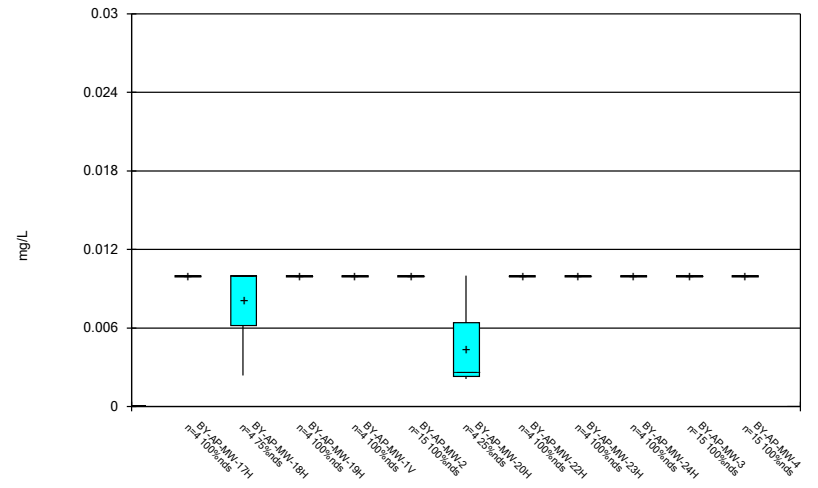
Constituent: Chloride Analysis Run 12/11/2020 9:17 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



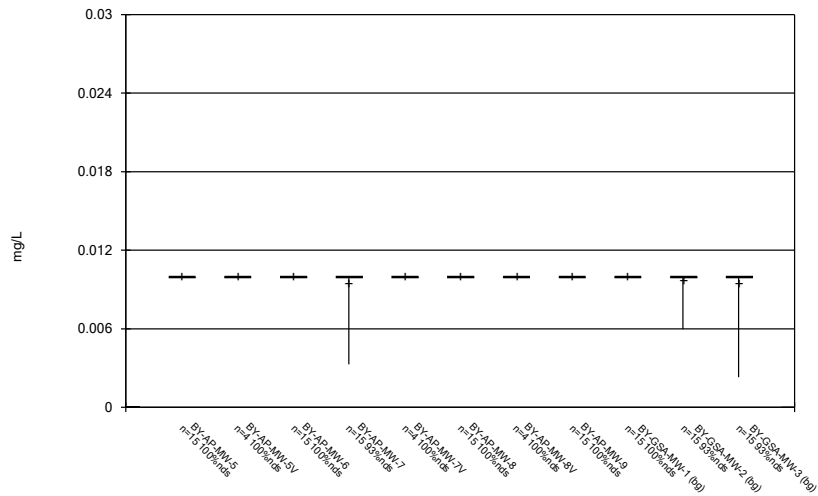
Constituent: Chromium Analysis Run 12/11/2020 9:17 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



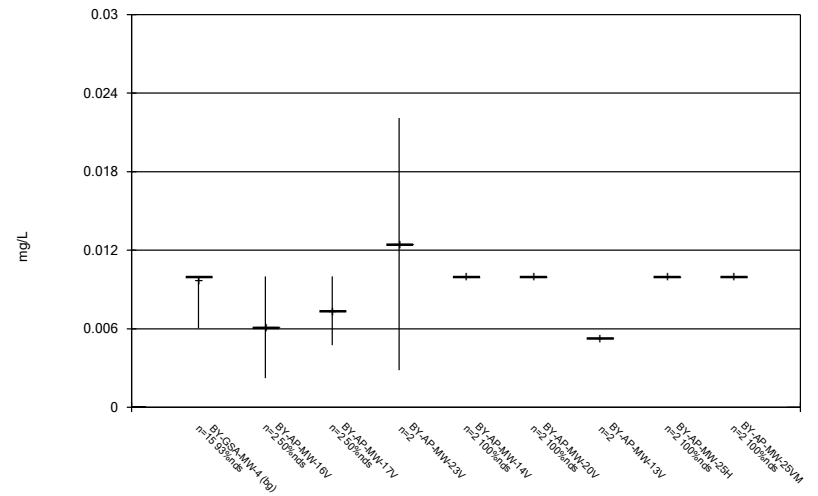
Constituent: Chromium Analysis Run 12/11/2020 9:17 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



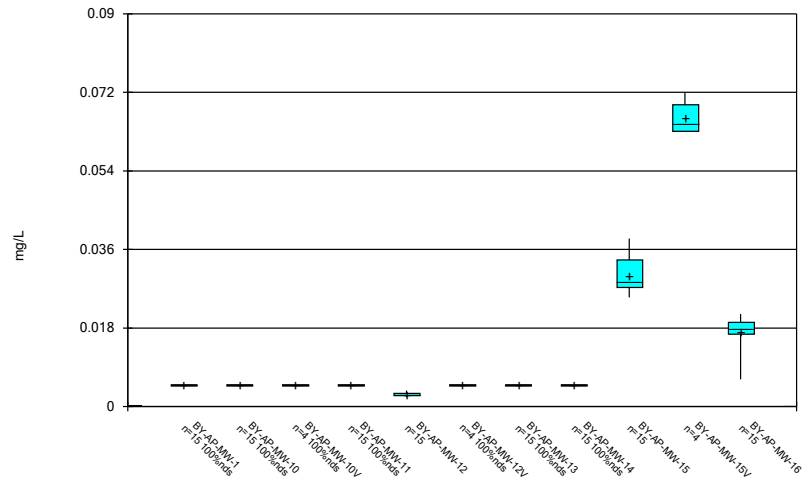
Constituent: Chromium Analysis Run 12/11/2020 9:17 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



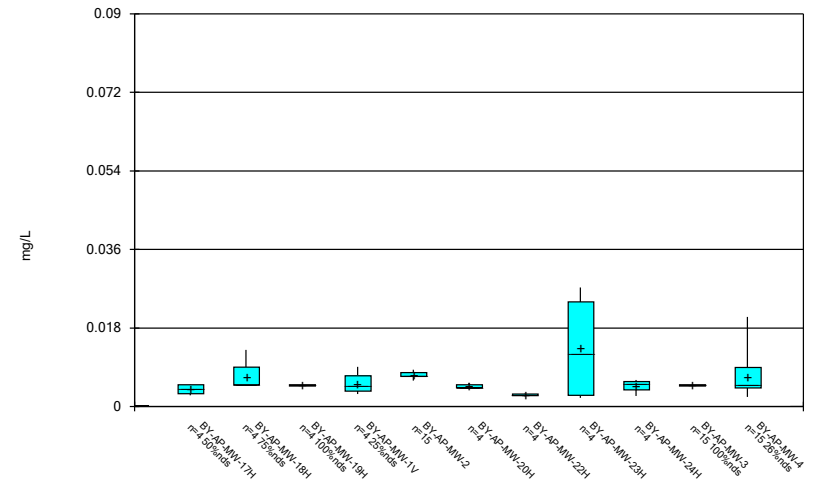
Constituent: Chromium Analysis Run 12/11/2020 9:17 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



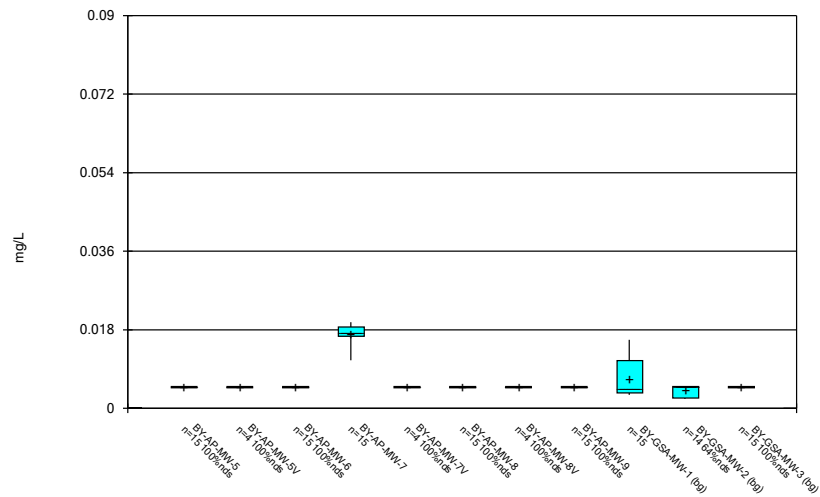
Constituent: Cobalt Analysis Run 12/11/2020 9:17 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



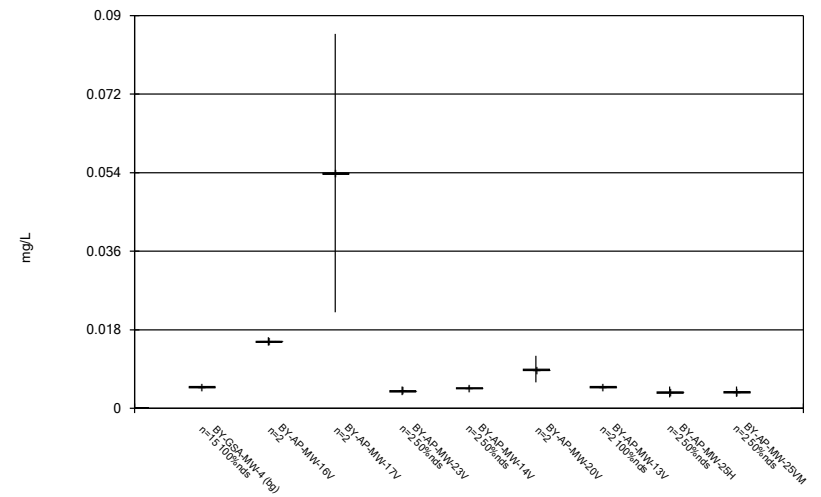
Constituent: Cobalt Analysis Run 12/11/2020 9:17 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



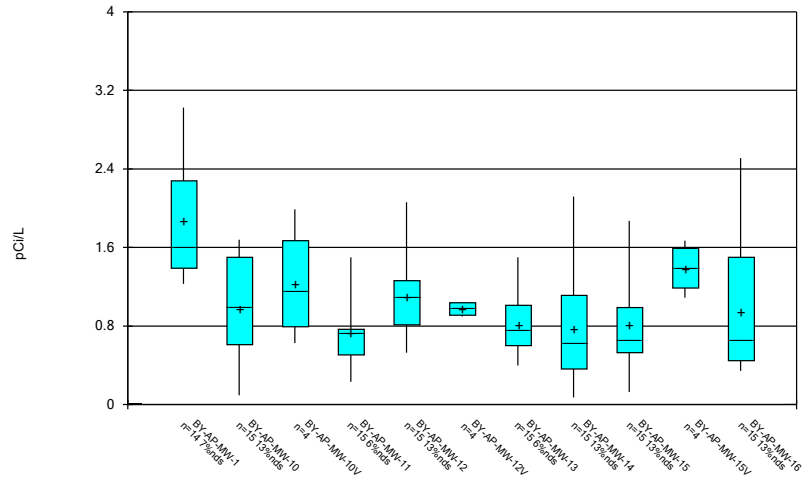
Constituent: Cobalt Analysis Run 12/11/2020 9:17 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



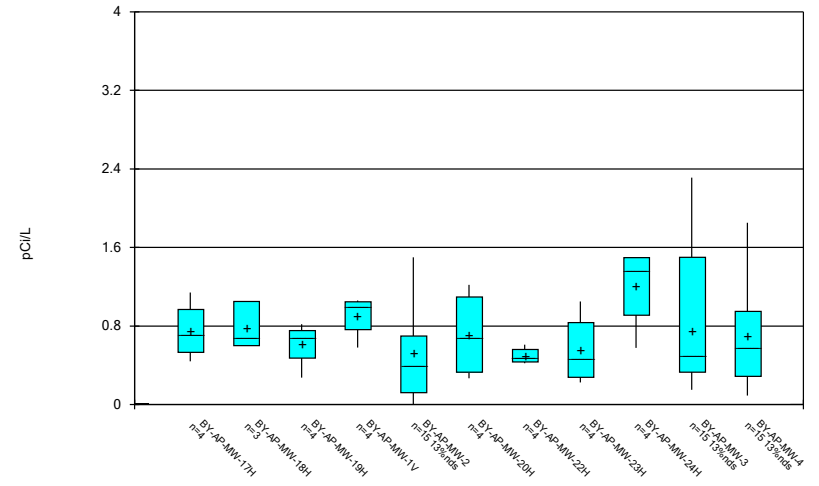
Constituent: Cobalt Analysis Run 12/11/2020 9:17 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



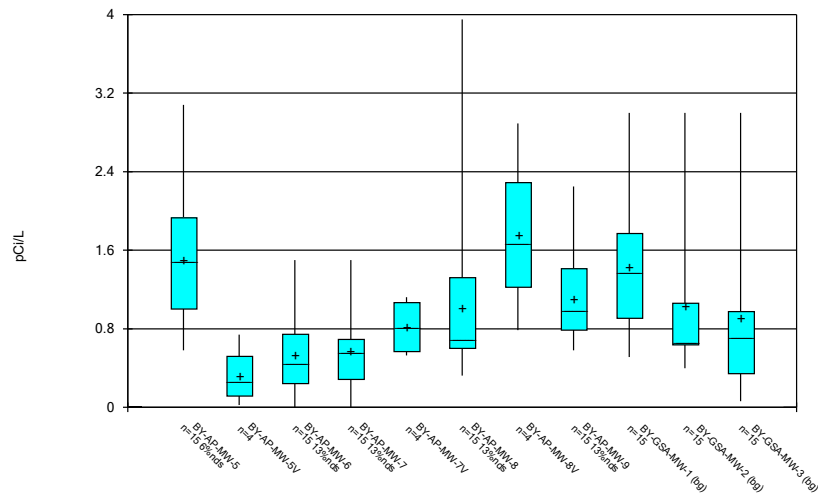
Constituent: Combined Radium 226 + 228 Analysis Run 12/11/2020 9:17 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



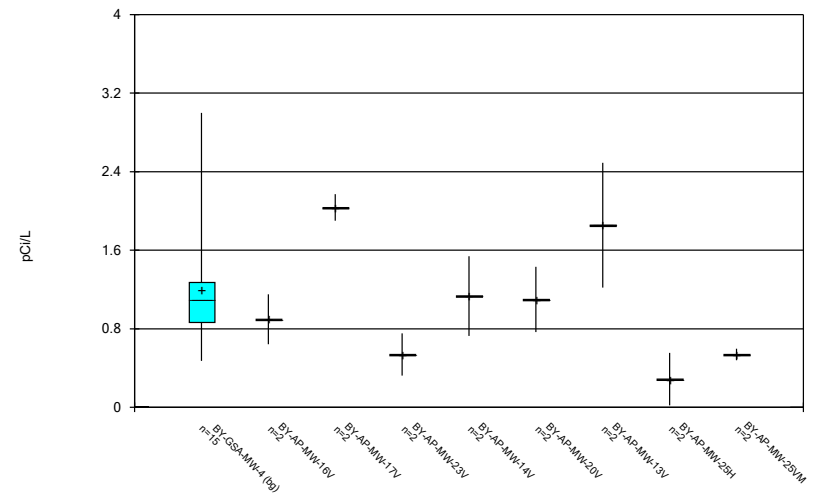
Constituent: Combined Radium 226 + 228 Analysis Run 12/11/2020 9:17 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



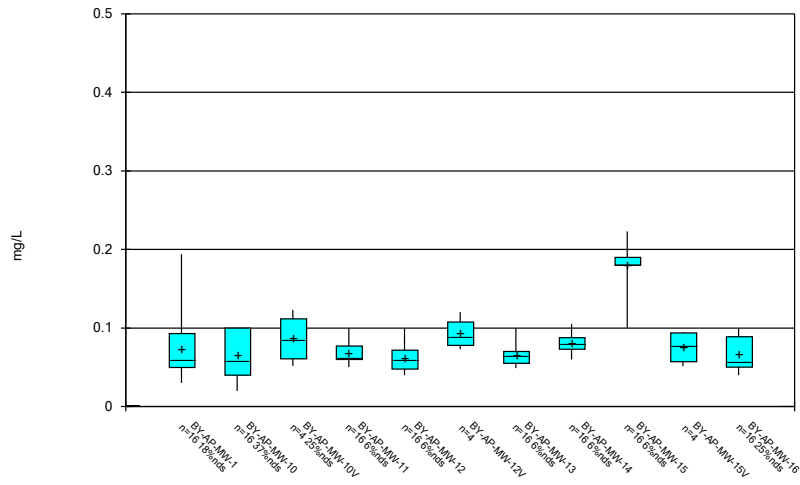
Constituent: Combined Radium 226 + 228 Analysis Run 12/11/2020 9:17 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



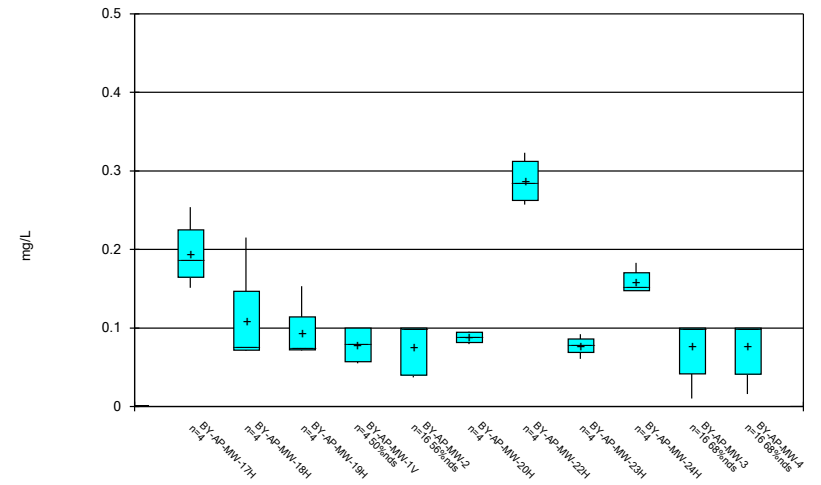
Constituent: Combined Radium 226 + 228 Analysis Run 12/11/2020 9:17 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



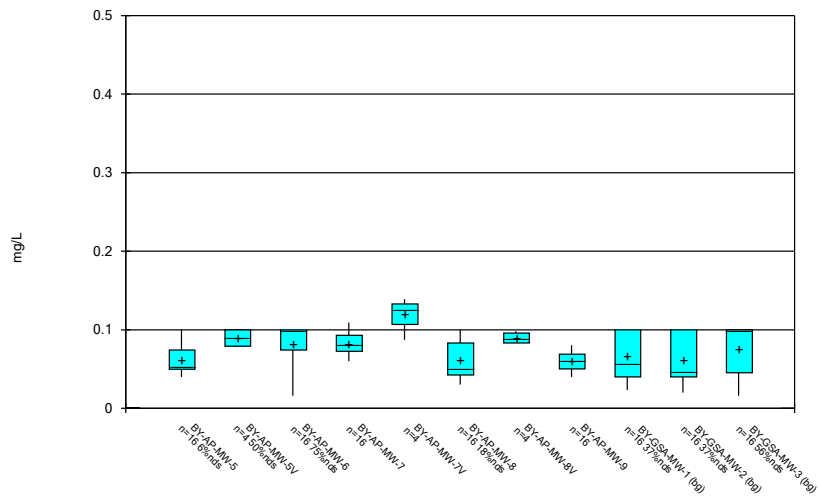
Constituent: Fluoride Analysis Run 12/11/2020 9:17 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



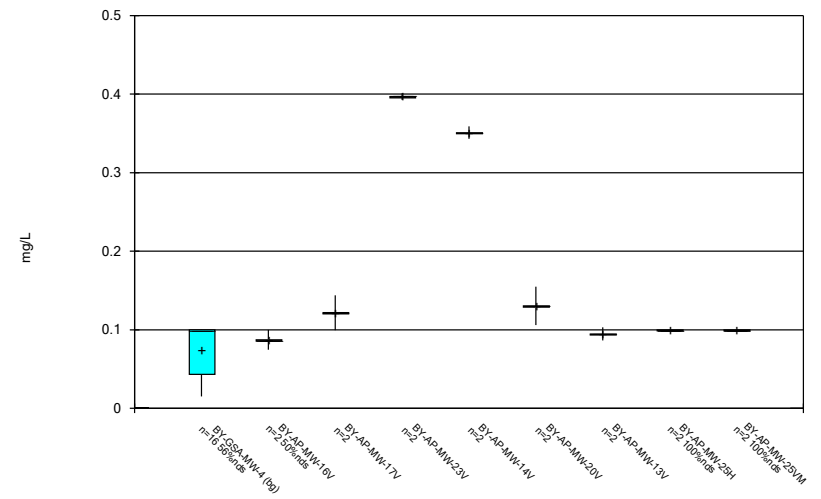
Constituent: Fluoride Analysis Run 12/11/2020 9:17 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



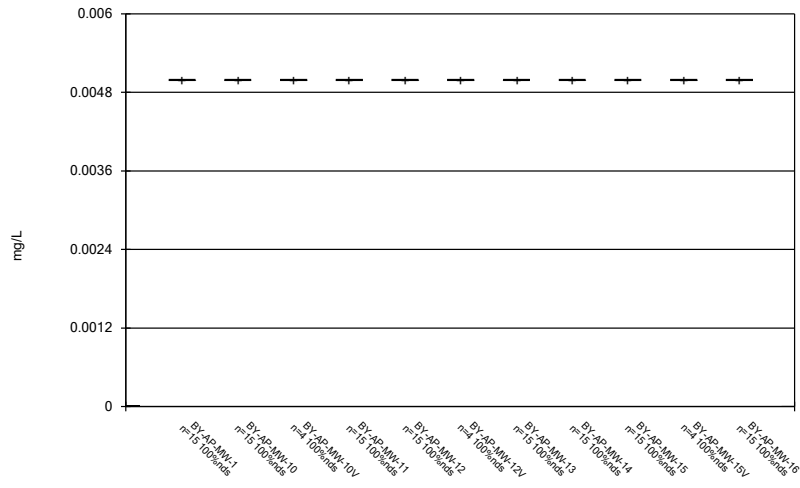
Constituent: Fluoride Analysis Run 12/11/2020 9:17 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



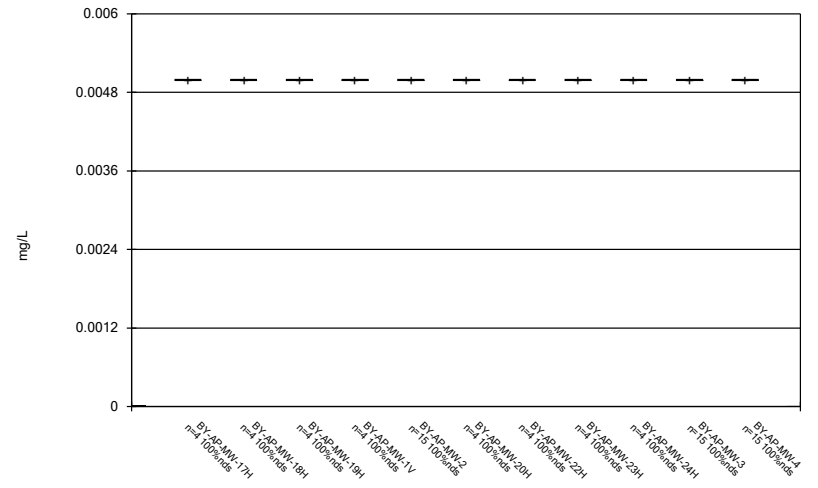
Constituent: Fluoride Analysis Run 12/11/2020 9:17 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



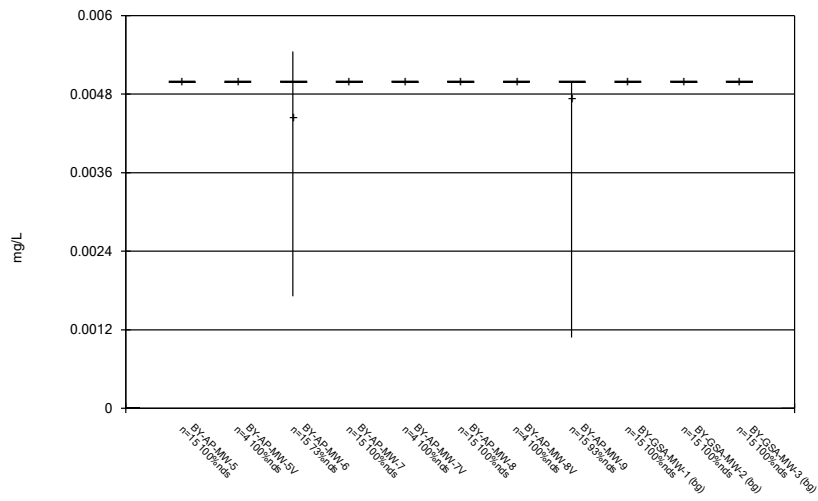
Constituent: Lead Analysis Run 12/11/2020 9:17 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



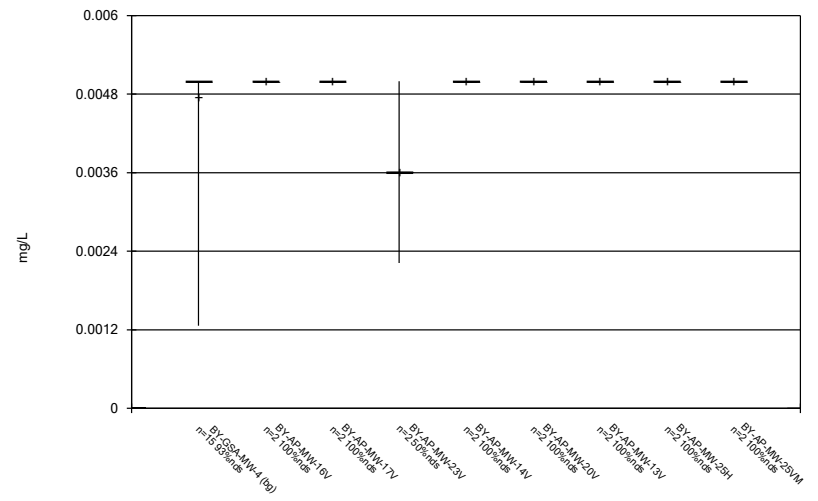
Constituent: Lead Analysis Run 12/11/2020 9:17 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



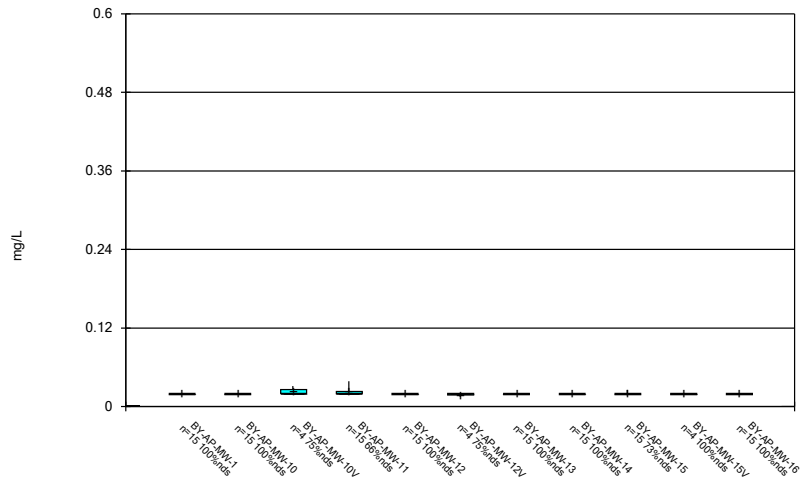
Constituent: Lead Analysis Run 12/11/2020 9:17 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



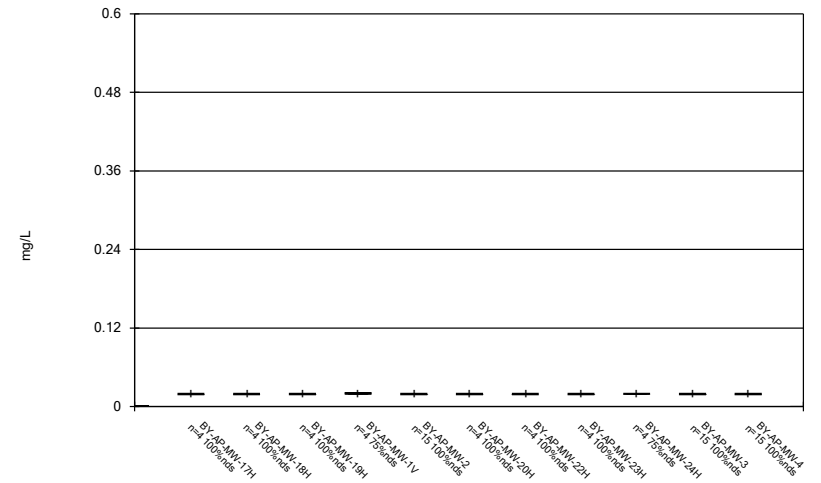
Constituent: Lead Analysis Run 12/11/2020 9:17 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



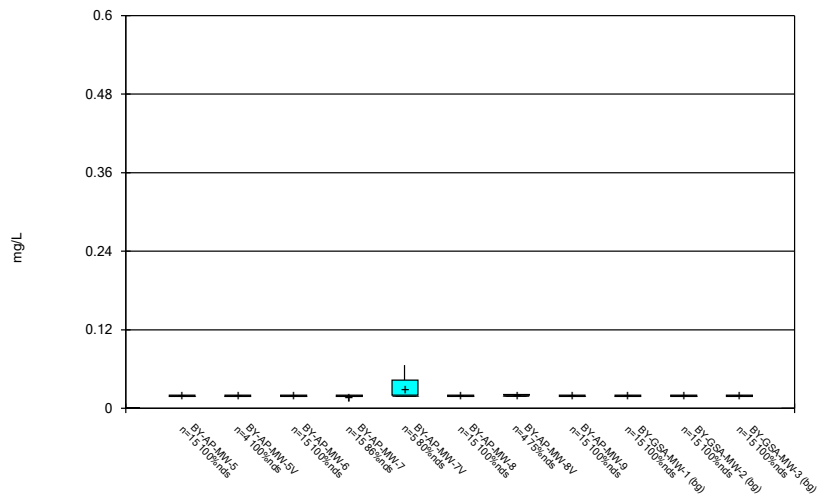
Constituent: Lithium Analysis Run 12/11/2020 9:17 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



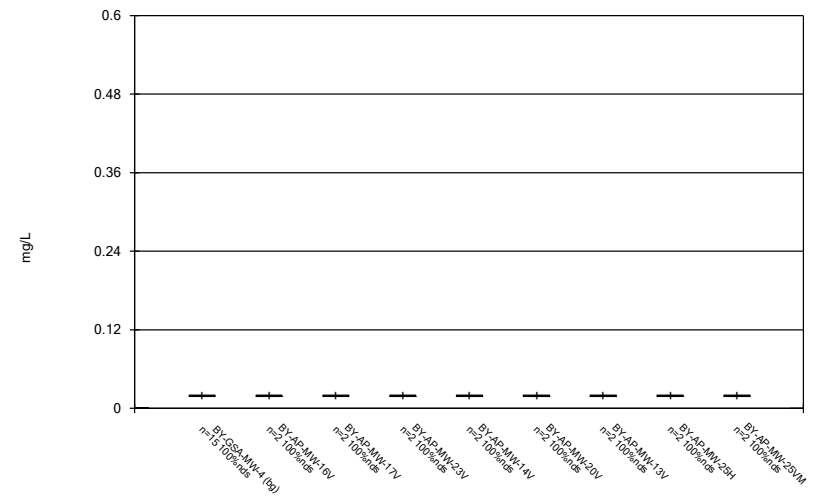
Constituent: Lithium Analysis Run 12/11/2020 9:17 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



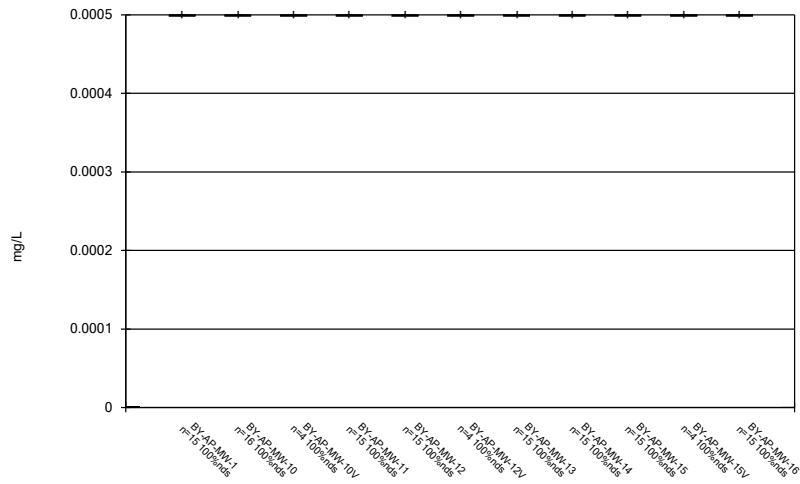
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



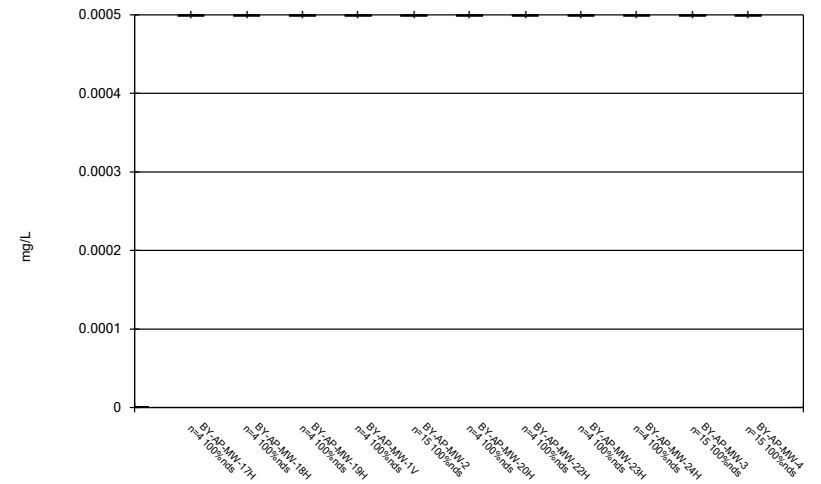
Constituent: Lithium Analysis Run 12/11/2020 9:17 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



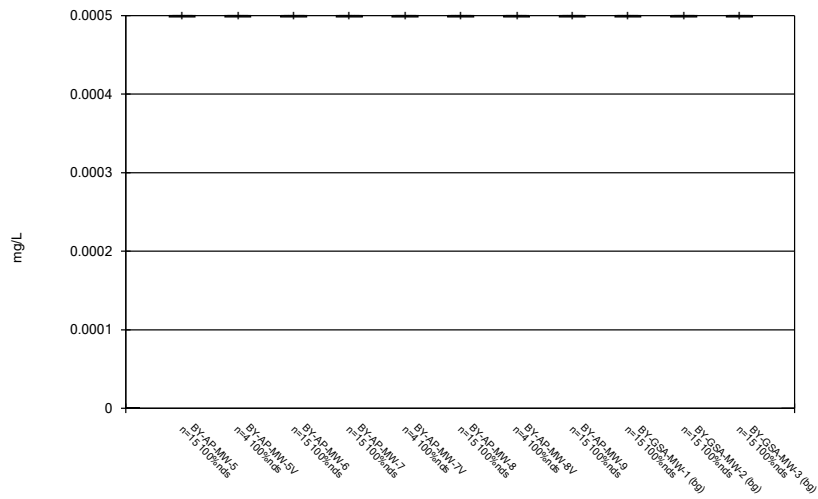
Constituent: Mercury Analysis Run 12/11/2020 9:17 AM
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



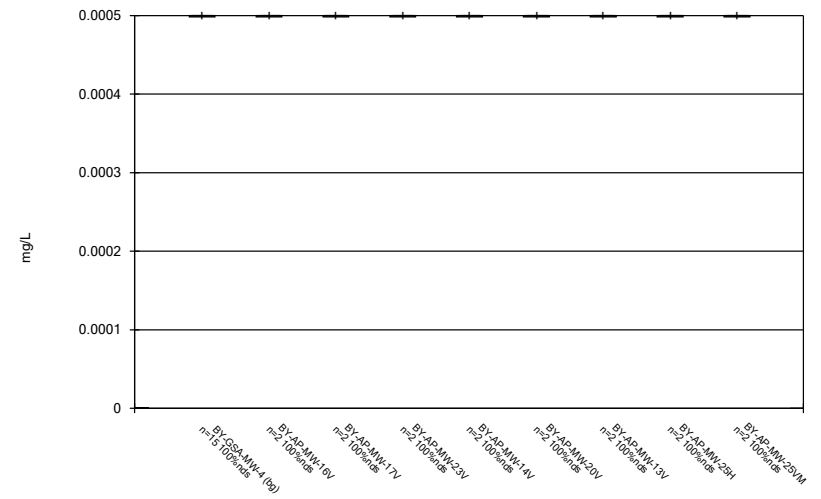
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



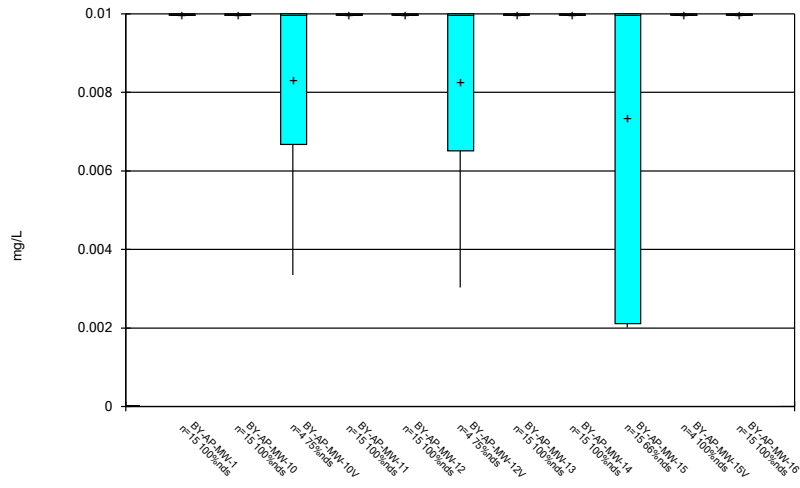
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Box & Whiskers Plot



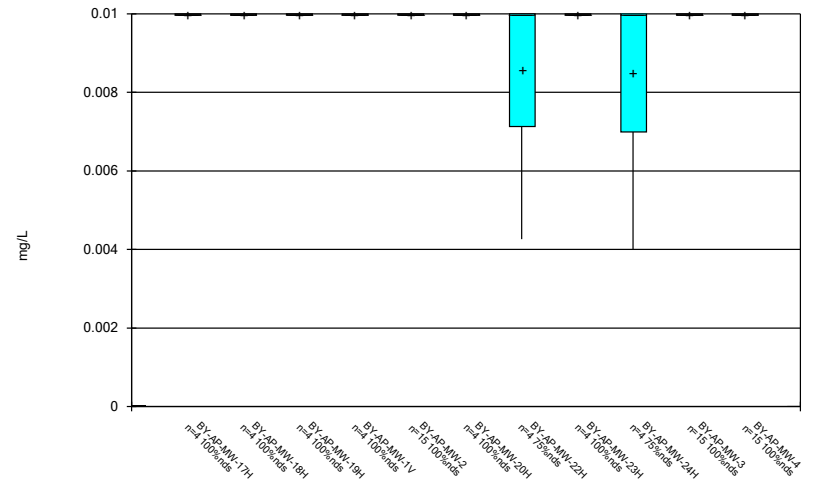
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



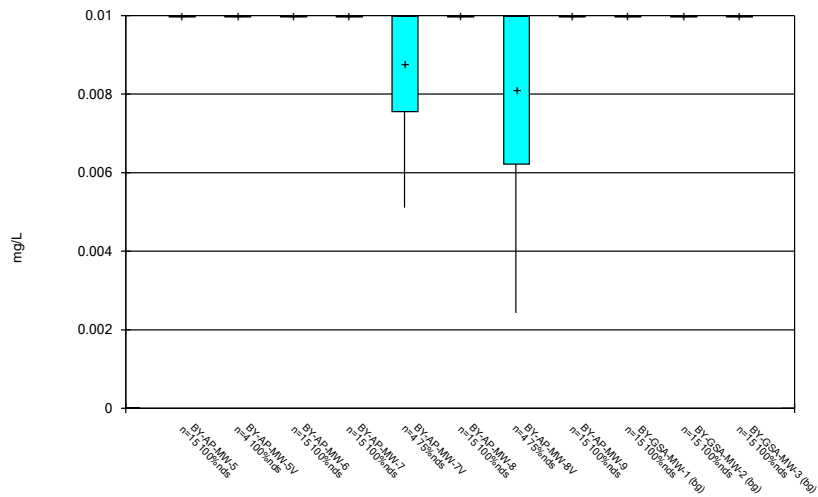
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Box & Whiskers Plot



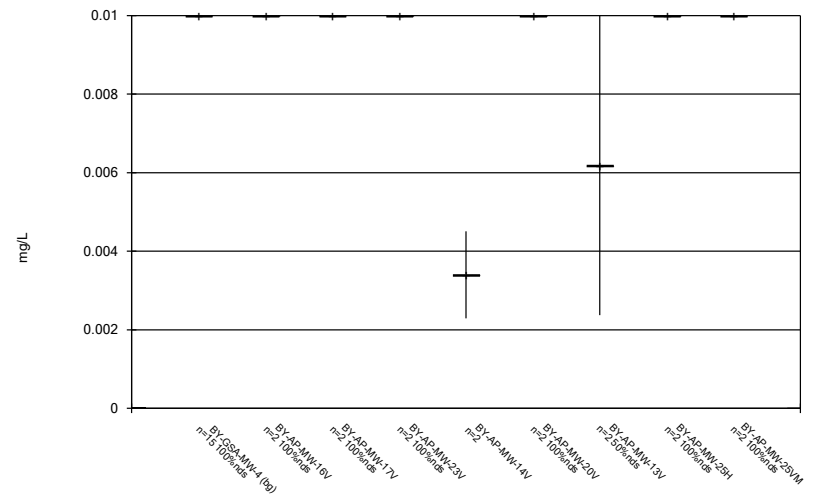
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Box & Whiskers Plot



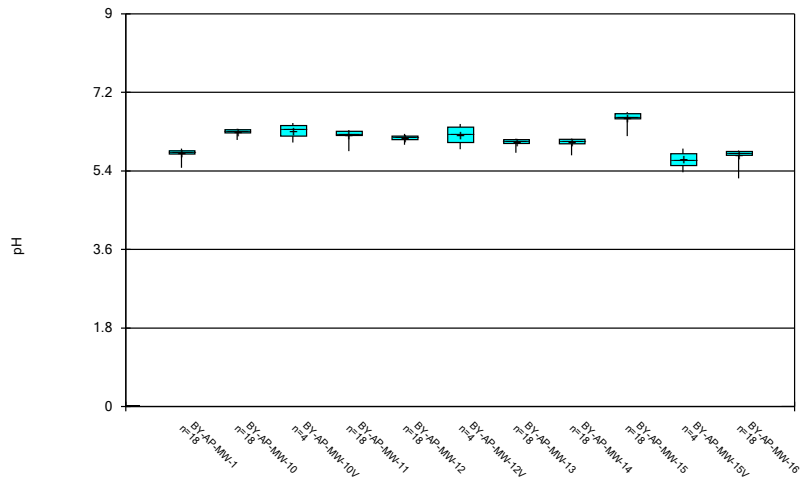
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



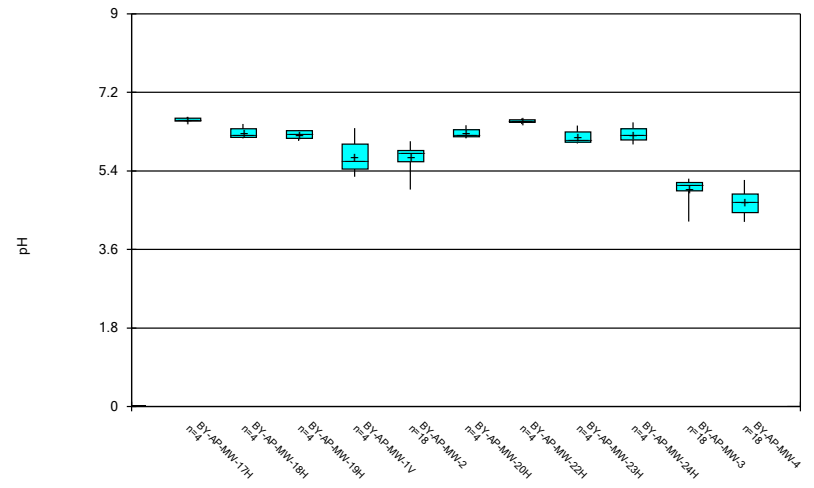
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Box & Whiskers Plot



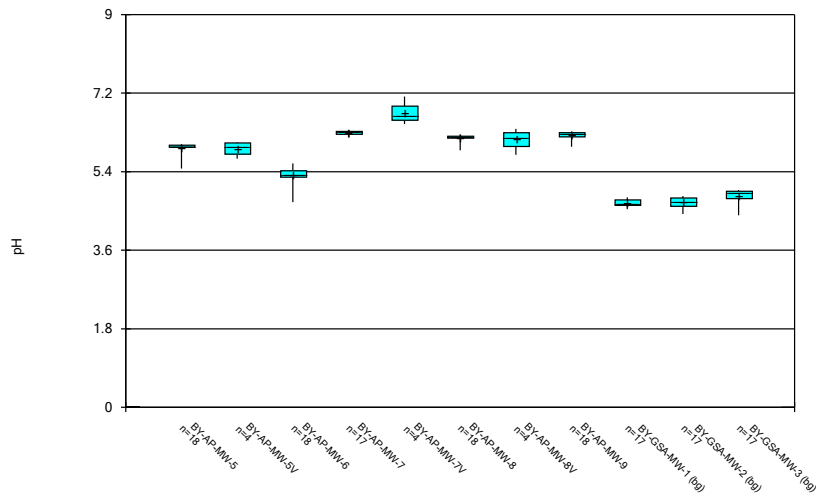
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Box & Whiskers Plot



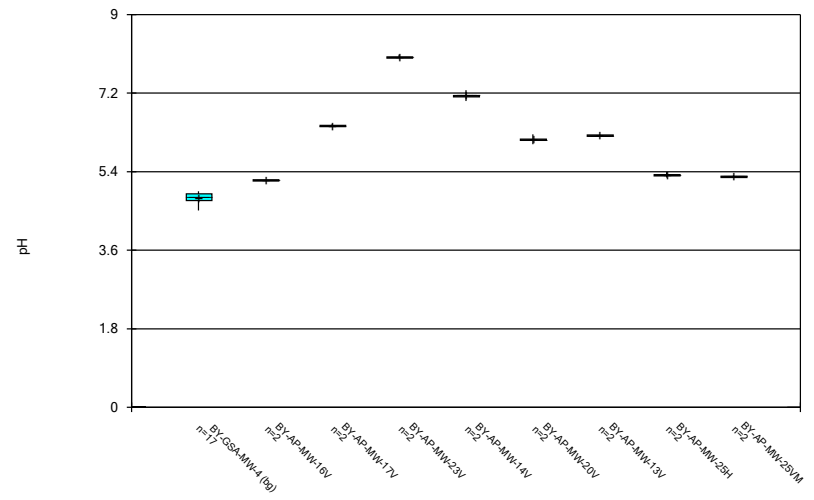
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Box & Whiskers Plot



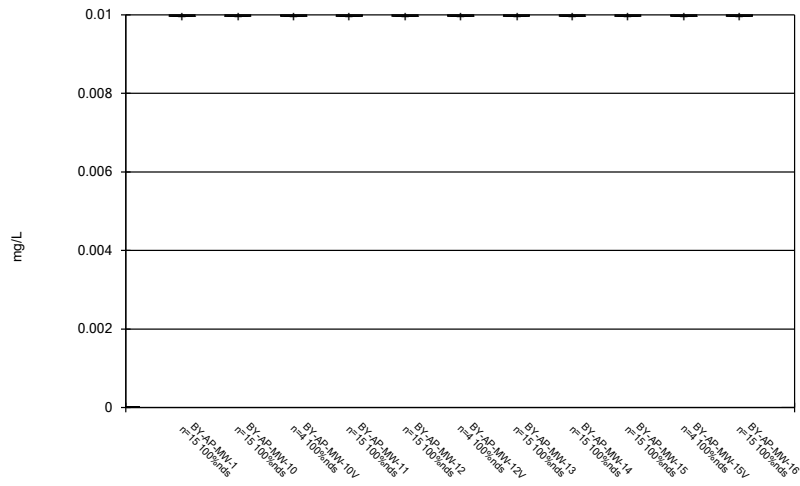
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Box & Whiskers Plot



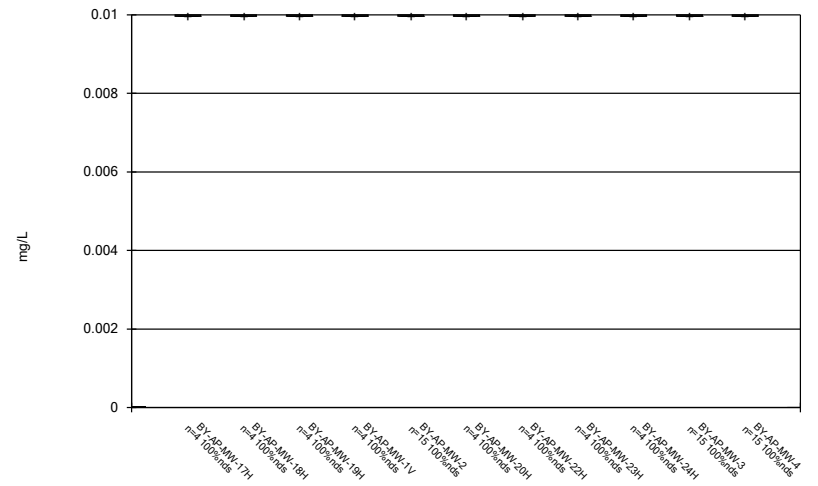
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



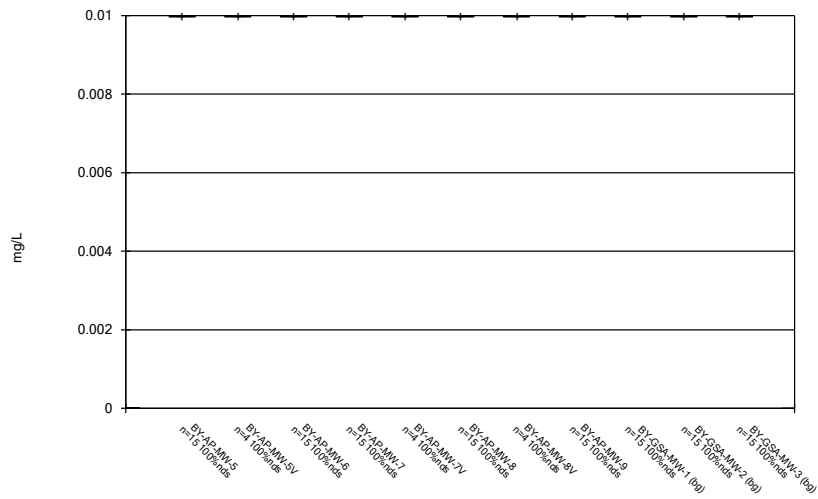
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Box & Whiskers Plot



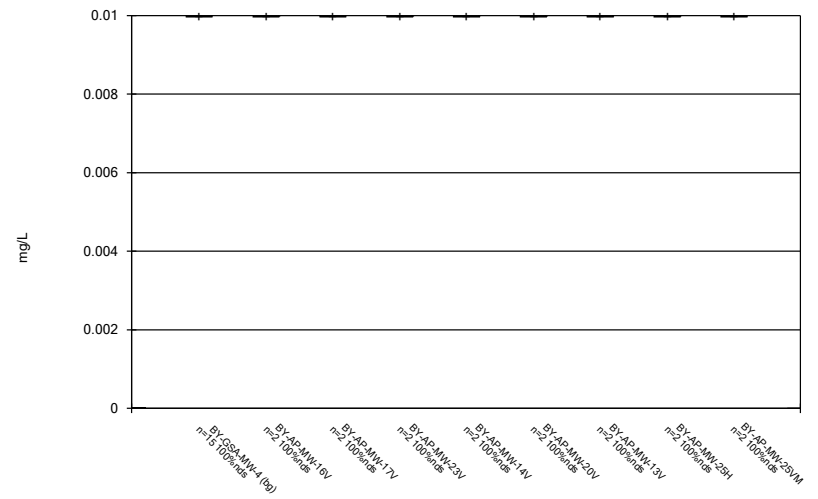
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Box & Whiskers Plot



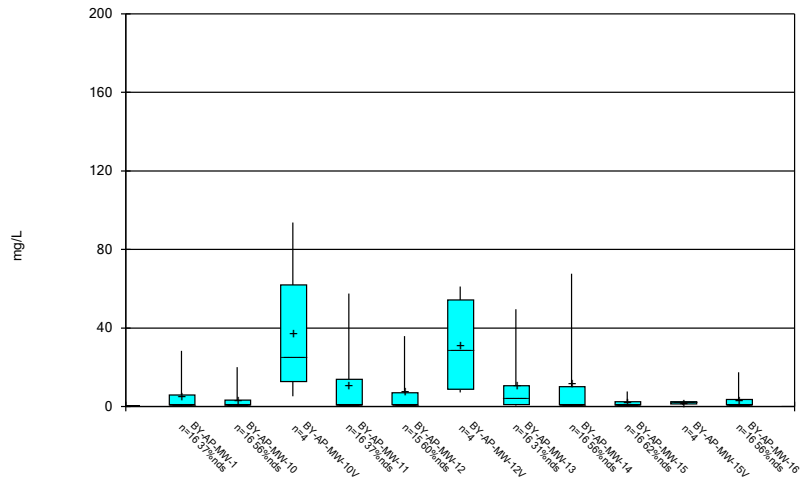
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Box & Whiskers Plot



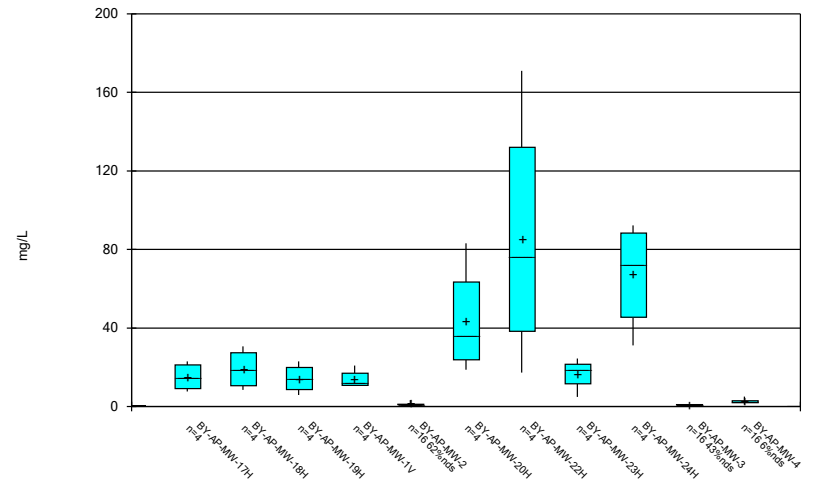
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



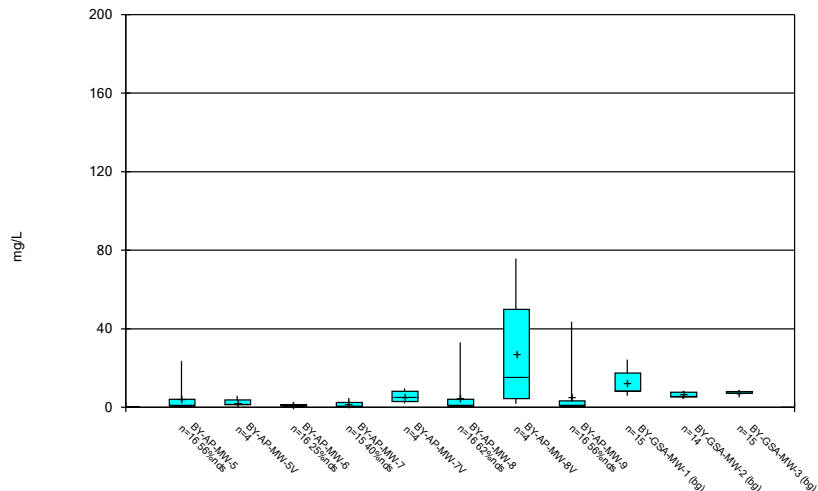
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Box & Whiskers Plot



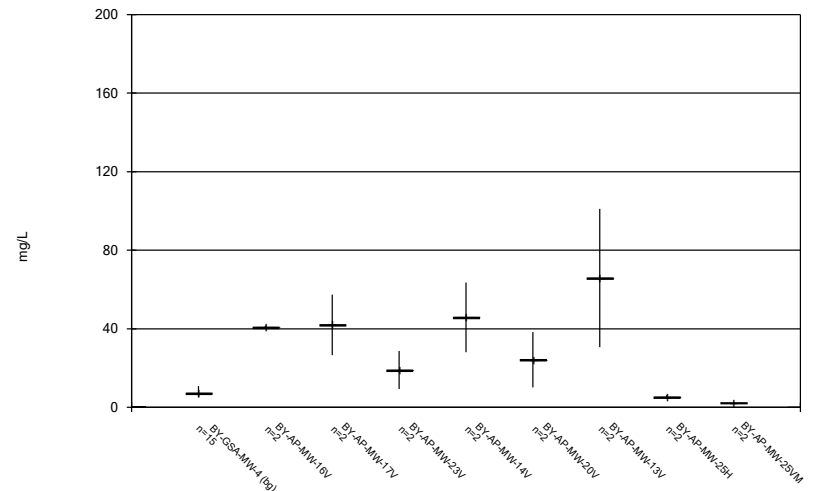
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



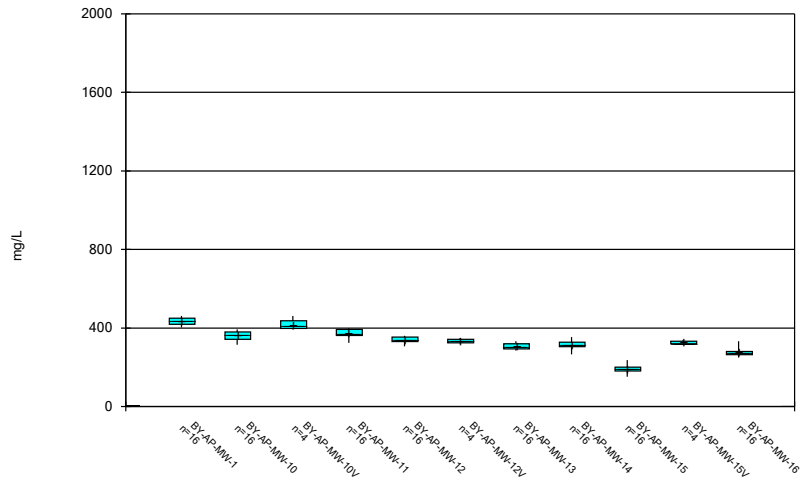
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



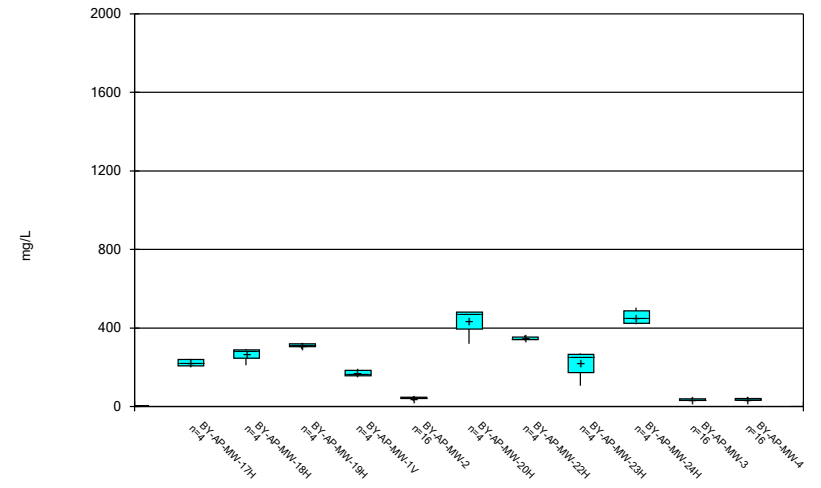
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



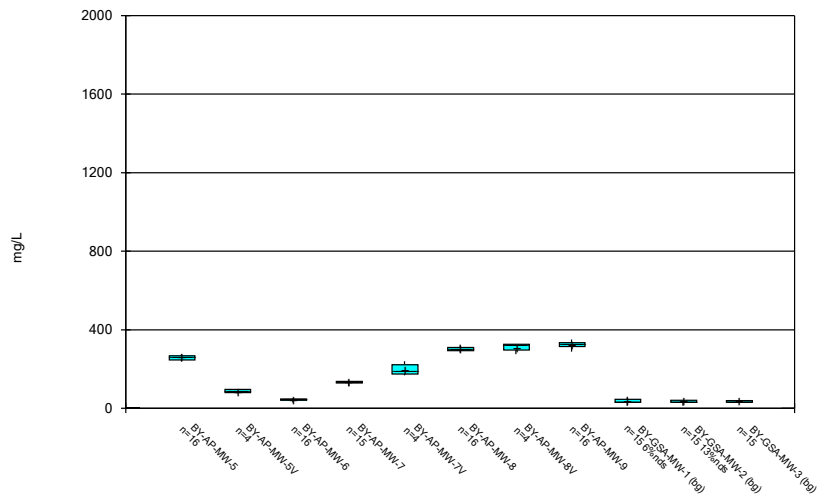
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



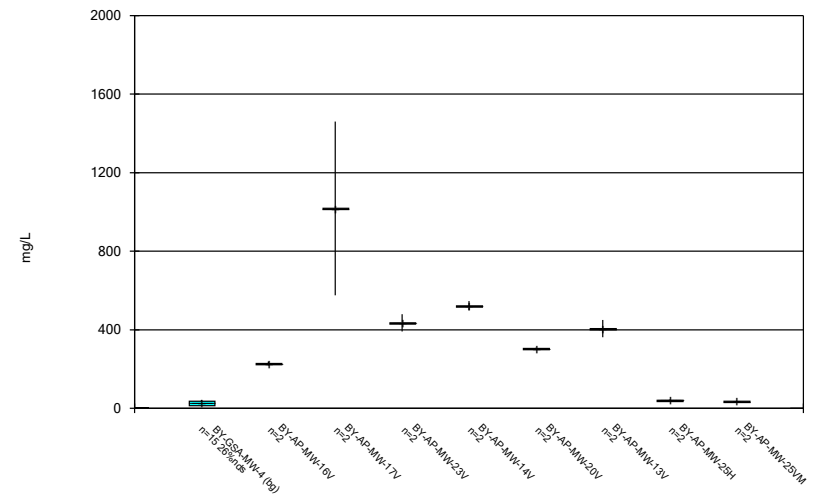
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



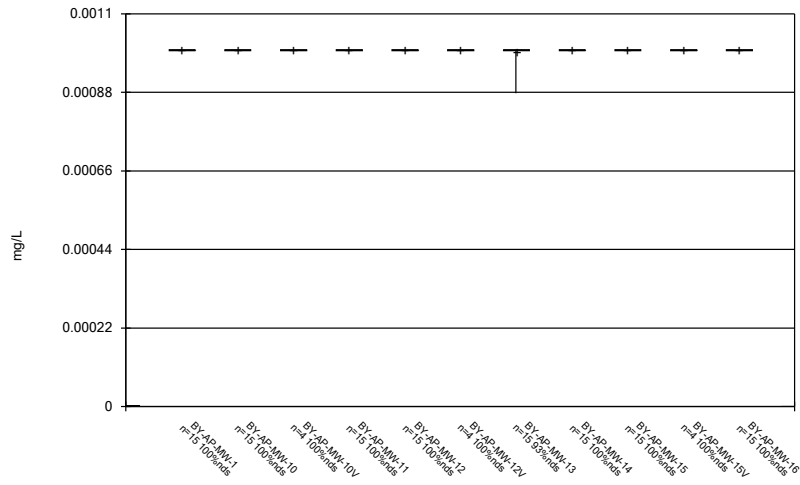
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



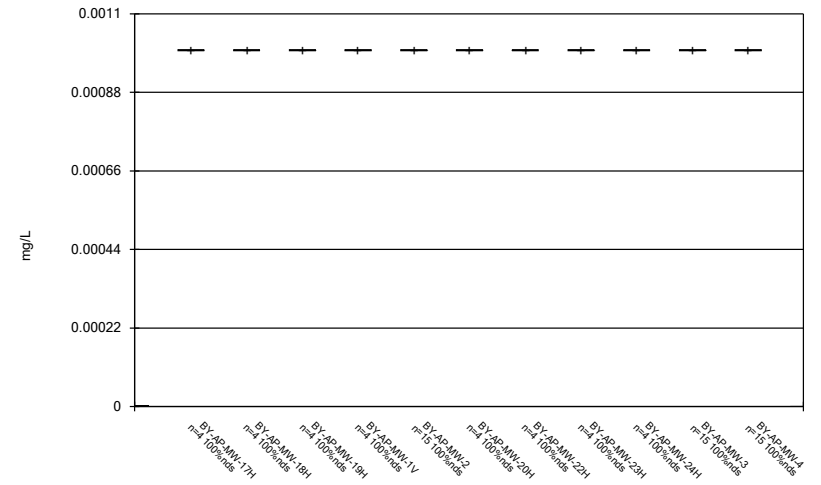
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



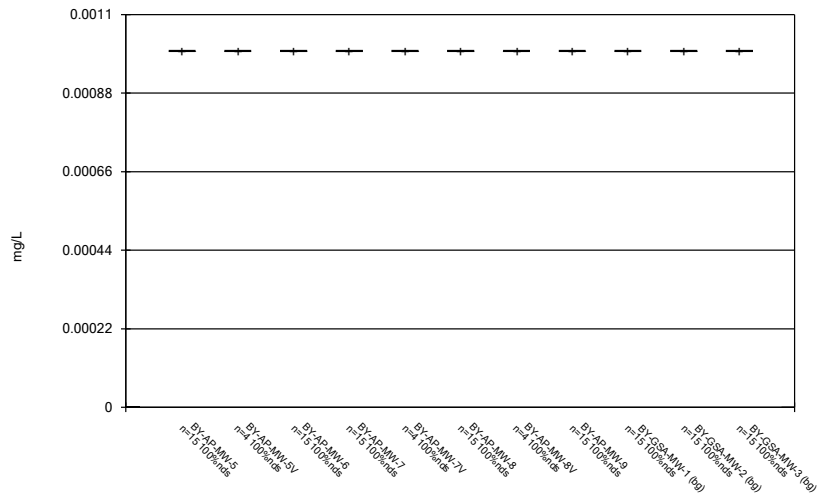
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



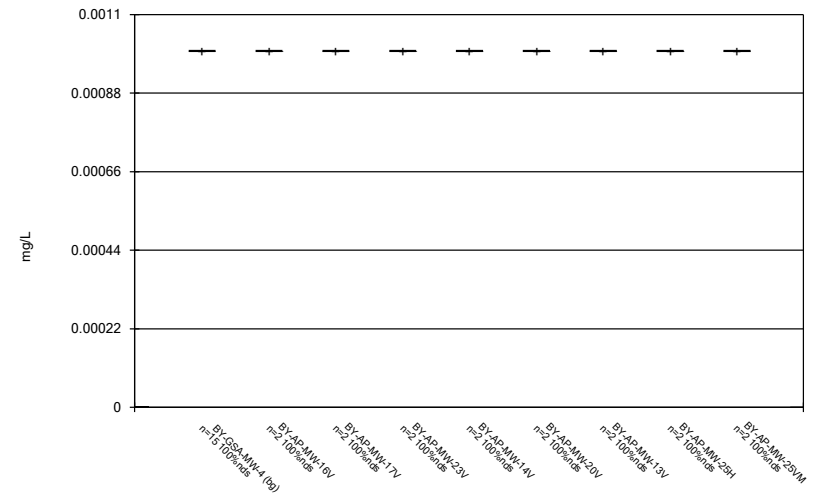
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



Constituent: Thallium Analysis Run 12/11/2020 9:18 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



Constituent: Thallium Analysis Run 12/11/2020 9:18 AM
Plant Barry Client: Southern Company Data: Barry Ash Pond

FIGURE C.

Outlier Summary

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 12/11/2020, 9:21 AM

	BY-AP-MW-1 Chloride (mg/L)	BY-AP-MW-12 Sulfate (mg/L)
3/2/2016	2.18 (o)	
4/19/2016	9.01 (o)	
11/28/2018		<50 (o)

FIGURE D.

Appendix III - Interwell Prediction Limits - Significant Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 12/8/2020, 4:52 PM

Constituent	Well	Upper Lim	Lower Lim	Date	Observ.	Sig.	Bq	N Bq	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	BY-AP-MW-1	0.188	n/a	9/1/2020	2.11	Yes	59	n/a	n/a	81.36	n/a	n/a	n/a	0.0005305	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-10	0.188	n/a	9/1/2020	2.02	Yes	59	n/a	n/a	81.36	n/a	n/a	n/a	0.0005305	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-16	0.188	n/a	9/2/2020	1.9	Yes	59	n/a	n/a	81.36	n/a	n/a	n/a	0.0005305	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-8	0.188	n/a	9/2/2020	1.26	Yes	59	n/a	n/a	81.36	n/a	n/a	n/a	0.0005305	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-9	0.188	n/a	9/2/2020	2.05	Yes	59	n/a	n/a	81.36	n/a	n/a	n/a	0.0005305	NP Inter (NDs) 1 of 2
Calcium (mg/L)	BY-AP-MW-1	2.063	n/a	9/1/2020	40.5	Yes	60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2	
Calcium (mg/L)	BY-AP-MW-10	2.063	n/a	9/1/2020	57.2	Yes	60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2	
Calcium (mg/L)	BY-AP-MW-11	2.063	n/a	9/1/2020	23.9	Yes	60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2	
Calcium (mg/L)	BY-AP-MW-12	2.063	n/a	9/1/2020	22.2	Yes	60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2	
Calcium (mg/L)	BY-AP-MW-13	2.063	n/a	9/1/2020	12.3	Yes	60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2	
Calcium (mg/L)	BY-AP-MW-14	2.063	n/a	9/2/2020	10.8	Yes	60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2	
Calcium (mg/L)	BY-AP-MW-15	2.063	n/a	9/2/2020	7.04	Yes	60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2	
Calcium (mg/L)	BY-AP-MW-16	2.063	n/a	9/2/2020	13.1	Yes	60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2	
Calcium (mg/L)	BY-AP-MW-2	2.063	n/a	8/31/2020	3	Yes	60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2	
Calcium (mg/L)	BY-AP-MW-5	2.063	n/a	9/1/2020	13.6	Yes	60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2	
Calcium (mg/L)	BY-AP-MW-7	2.063	n/a	9/2/2020	10.4	Yes	60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2	
Calcium (mg/L)	BY-AP-MW-8	2.063	n/a	9/2/2020	31.5	Yes	60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2	
Calcium (mg/L)	BY-AP-MW-9	2.063	n/a	9/2/2020	38	Yes	60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2	
Chloride (mg/L)	BY-AP-MW-1	9.9	n/a	9/1/2020	25.7	Yes	60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2	
Chloride (mg/L)	BY-AP-MW-10	9.9	n/a	9/1/2020	25	Yes	60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2	
Chloride (mg/L)	BY-AP-MW-11	9.9	n/a	9/1/2020	23.2	Yes	60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2	
Chloride (mg/L)	BY-AP-MW-12	9.9	n/a	9/1/2020	23.4	Yes	60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2	
Chloride (mg/L)	BY-AP-MW-13	9.9	n/a	9/1/2020	39.1	Yes	60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2	
Chloride (mg/L)	BY-AP-MW-14	9.9	n/a	9/2/2020	47.2	Yes	60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2	
Chloride (mg/L)	BY-AP-MW-15	9.9	n/a	9/2/2020	47	Yes	60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2	
Chloride (mg/L)	BY-AP-MW-16	9.9	n/a	9/2/2020	20.8	Yes	60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2	
Chloride (mg/L)	BY-AP-MW-5	9.9	n/a	9/1/2020	19.1	Yes	60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2	
Chloride (mg/L)	BY-AP-MW-7	9.9	n/a	9/2/2020	12.9	Yes	60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2	
Chloride (mg/L)	BY-AP-MW-8	9.9	n/a	9/2/2020	22.2	Yes	60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2	
Chloride (mg/L)	BY-AP-MW-9	9.9	n/a	9/2/2020	18.5	Yes	60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2	
Fluoride (mg/L)	BY-AP-MW-1	0.1	n/a	9/1/2020	0.194	Yes	64	n/a	n/a	46.88	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2	
Fluoride (mg/L)	BY-AP-MW-15	0.1	n/a	9/2/2020	0.18	Yes	64	n/a	n/a	46.88	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2	
Fluoride (mg/L)	BY-AP-MW-7	0.1	n/a	9/2/2020	0.109	Yes	64	n/a	n/a	46.88	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2	
TDS (mg/L)	BY-AP-MW-1	58	n/a	9/1/2020	454	Yes	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2	
TDS (mg/L)	BY-AP-MW-10	58	n/a	9/1/2020	392	Yes	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2	
TDS (mg/L)	BY-AP-MW-11	58	n/a	9/1/2020	399	Yes	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2	
TDS (mg/L)	BY-AP-MW-12	58	n/a	9/1/2020	356	Yes	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2	
TDS (mg/L)	BY-AP-MW-13	58	n/a	9/1/2020	285	Yes	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2	
TDS (mg/L)	BY-AP-MW-14	58	n/a	9/2/2020	327	Yes	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2	
TDS (mg/L)	BY-AP-MW-15	58	n/a	9/2/2020	208	Yes	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2	
TDS (mg/L)	BY-AP-MW-16	58	n/a	9/2/2020	279	Yes	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2	
TDS (mg/L)	BY-AP-MW-5	58	n/a	9/1/2020	253	Yes	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2	
TDS (mg/L)	BY-AP-MW-7	58	n/a	9/2/2020	129	Yes	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2	
TDS (mg/L)	BY-AP-MW-8	58	n/a	9/2/2020	298	Yes	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2	
TDS (mg/L)	BY-AP-MW-9	58	n/a	9/2/2020	301	Yes	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2	

Appendix III - Interwell Prediction Limits - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 12/8/2020, 4:52 PM

Constituent	Well	Upper Lim	Lower Lim	Date	Obsrv.	Sig.	Bq N	Bq Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	BY-AP-MW-1	0.188	n/a	9/1/2020	2.11	Yes	59	n/a	n/a	81.36	n/a	n/a	0.0005305	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-10	0.188	n/a	9/1/2020	2.02	Yes	59	n/a	n/a	81.36	n/a	n/a	0.0005305	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-11	0.188	n/a	9/1/2020	0.104	No	59	n/a	n/a	81.36	n/a	n/a	0.0005305	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-12	0.188	n/a	9/1/2020	0.115	No	59	n/a	n/a	81.36	n/a	n/a	0.0005305	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-13	0.188	n/a	9/1/2020	0.0642J	No	59	n/a	n/a	81.36	n/a	n/a	0.0005305	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-14	0.188	n/a	9/2/2020	0.0789J	No	59	n/a	n/a	81.36	n/a	n/a	0.0005305	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-15	0.188	n/a	9/2/2020	0.148	No	59	n/a	n/a	81.36	n/a	n/a	0.0005305	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-16	0.188	n/a	9/2/2020	1.9	Yes	59	n/a	n/a	81.36	n/a	n/a	0.0005305	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-2	0.188	n/a	8/31/2020	0.1ND	No	59	n/a	n/a	81.36	n/a	n/a	0.0005305	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-3	0.188	n/a	9/1/2020	0.1ND	No	59	n/a	n/a	81.36	n/a	n/a	0.0005305	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-4	0.188	n/a	9/1/2020	0.1ND	No	59	n/a	n/a	81.36	n/a	n/a	0.0005305	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-5	0.188	n/a	9/1/2020	0.115	No	59	n/a	n/a	81.36	n/a	n/a	0.0005305	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-6	0.188	n/a	9/2/2020	0.1ND	No	59	n/a	n/a	81.36	n/a	n/a	0.0005305	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-7	0.188	n/a	9/2/2020	0.042J	No	59	n/a	n/a	81.36	n/a	n/a	0.0005305	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-8	0.188	n/a	9/2/2020	1.26	Yes	59	n/a	n/a	81.36	n/a	n/a	0.0005305	NP Inter (NDs) 1 of 2
Boron (mg/L)	BY-AP-MW-9	0.188	n/a	9/2/2020	2.05	Yes	59	n/a	n/a	81.36	n/a	n/a	0.0005305	NP Inter (NDs) 1 of 2
Calcium (mg/L)	BY-AP-MW-1	2.063	n/a	9/1/2020	40.5	Yes	60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2
Calcium (mg/L)	BY-AP-MW-10	2.063	n/a	9/1/2020	57.2	Yes	60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2
Calcium (mg/L)	BY-AP-MW-11	2.063	n/a	9/1/2020	23.9	Yes	60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2
Calcium (mg/L)	BY-AP-MW-12	2.063	n/a	9/1/2020	22.2	Yes	60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2
Calcium (mg/L)	BY-AP-MW-13	2.063	n/a	9/1/2020	12.3	Yes	60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2
Calcium (mg/L)	BY-AP-MW-14	2.063	n/a	9/2/2020	10.8	Yes	60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2
Calcium (mg/L)	BY-AP-MW-15	2.063	n/a	9/2/2020	7.04	Yes	60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2
Calcium (mg/L)	BY-AP-MW-16	2.063	n/a	9/2/2020	13.1	Yes	60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2
Calcium (mg/L)	BY-AP-MW-2	2.063	n/a	8/31/2020	3	Yes	60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2
Calcium (mg/L)	BY-AP-MW-3	2.063	n/a	9/1/2020	1.08	No	60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2
Calcium (mg/L)	BY-AP-MW-4	2.063	n/a	9/1/2020	0.566	No	60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2
Calcium (mg/L)	BY-AP-MW-5	2.063	n/a	9/1/2020	13.6	Yes	60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2
Calcium (mg/L)	BY-AP-MW-6	2.063	n/a	9/2/2020	1.8	No	60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2
Calcium (mg/L)	BY-AP-MW-7	2.063	n/a	9/2/2020	10.4	Yes	60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2
Calcium (mg/L)	BY-AP-MW-8	2.063	n/a	9/2/2020	31.5	Yes	60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2
Calcium (mg/L)	BY-AP-MW-9	2.063	n/a	9/2/2020	38	Yes	60	1.473	0.277	0	None	No	0.0004702	Param Inter 1 of 2
Chloride (mg/L)	BY-AP-MW-1	9.9	n/a	9/1/2020	25.7	Yes	60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
Chloride (mg/L)	BY-AP-MW-10	9.9	n/a	9/1/2020	25	Yes	60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
Chloride (mg/L)	BY-AP-MW-11	9.9	n/a	9/1/2020	23.2	Yes	60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
Chloride (mg/L)	BY-AP-MW-12	9.9	n/a	9/1/2020	23.4	Yes	60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
Chloride (mg/L)	BY-AP-MW-13	9.9	n/a	9/1/2020	39.1	Yes	60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
Chloride (mg/L)	BY-AP-MW-14	9.9	n/a	9/2/2020	47.2	Yes	60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
Chloride (mg/L)	BY-AP-MW-15	9.9	n/a	9/2/2020	47	Yes	60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
Chloride (mg/L)	BY-AP-MW-16	9.9	n/a	9/2/2020	20.8	Yes	60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
Chloride (mg/L)	BY-AP-MW-2	9.9	n/a	8/31/2020	8.3	No	60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
Chloride (mg/L)	BY-AP-MW-3	9.9	n/a	9/1/2020	8.97	No	60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
Chloride (mg/L)	BY-AP-MW-4	9.9	n/a	9/1/2020	7.82	No	60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
Chloride (mg/L)	BY-AP-MW-5	9.9	n/a	9/1/2020	19.1	Yes	60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
Chloride (mg/L)	BY-AP-MW-6	9.9	n/a	9/2/2020	5.94	No	60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
Chloride (mg/L)	BY-AP-MW-7	9.9	n/a	9/2/2020	12.9	Yes	60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
Chloride (mg/L)	BY-AP-MW-8	9.9	n/a	9/2/2020	22.2	Yes	60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
Chloride (mg/L)	BY-AP-MW-9	9.9	n/a	9/2/2020	18.5	Yes	60	n/a	n/a	0	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BY-AP-MW-1	0.1	n/a	9/1/2020	0.194	Yes	64	n/a	n/a	46.88	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BY-AP-MW-10	0.1	n/a	9/1/2020	0.0794J	No	64	n/a	n/a	46.88	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BY-AP-MW-11	0.1	n/a	9/1/2020	0.0841J	No	64	n/a	n/a	46.88	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BY-AP-MW-12	0.1	n/a	9/1/2020	0.0845J	No	64	n/a	n/a	46.88	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BY-AP-MW-13	0.1	n/a	9/1/2020	0.0757J	No	64	n/a	n/a	46.88	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BY-AP-MW-14	0.1	n/a	9/2/2020	0.0957J	No	64	n/a	n/a	46.88	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BY-AP-MW-15	0.1	n/a	9/2/2020	0.18	Yes	64	n/a	n/a	46.88	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BY-AP-MW-16	0.1	n/a	9/2/2020	0.1ND	No	64	n/a	n/a	46.88	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2

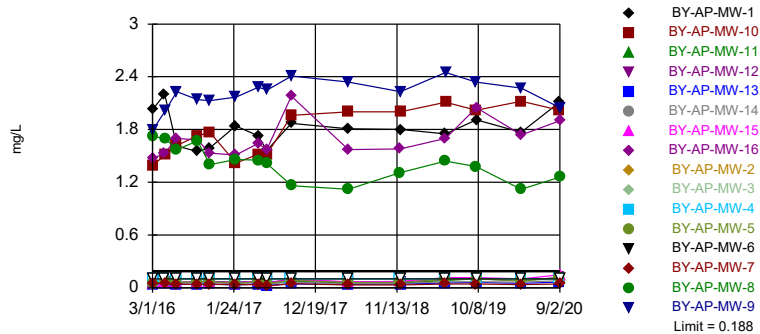
Appendix III - Interwell Prediction Limits - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 12/8/2020, 4:52 PM

Constituent	Well	Upper Lim	Lower Lim	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	BY-AP-MW-2	0.1	n/a	8/31/2020	0.1ND	No	64	n/a	n/a	46.88	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BY-AP-MW-3	0.1	n/a	9/1/2020	0.1ND	No	64	n/a	n/a	46.88	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BY-AP-MW-4	0.1	n/a	9/1/2020	0.1ND	No	64	n/a	n/a	46.88	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BY-AP-MW-5	0.1	n/a	9/1/2020	0.0921J	No	64	n/a	n/a	46.88	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BY-AP-MW-6	0.1	n/a	9/2/2020	0.1ND	No	64	n/a	n/a	46.88	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BY-AP-MW-7	0.1	n/a	9/2/2020	0.109	Yes	64	n/a	n/a	46.88	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BY-AP-MW-8	0.1	n/a	9/2/2020	0.1ND	No	64	n/a	n/a	46.88	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BY-AP-MW-9	0.1	n/a	9/2/2020	0.0804J	No	64	n/a	n/a	46.88	n/a	n/a	0.0004581	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-1	58	n/a	9/1/2020	454	Yes	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-10	58	n/a	9/1/2020	392	Yes	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-11	58	n/a	9/1/2020	399	Yes	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-12	58	n/a	9/1/2020	356	Yes	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-13	58	n/a	9/1/2020	285	Yes	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-14	58	n/a	9/2/2020	327	Yes	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-15	58	n/a	9/2/2020	208	Yes	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-16	58	n/a	9/2/2020	279	Yes	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-2	58	n/a	8/31/2020	45.3	No	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-3	58	n/a	9/1/2020	39.3	No	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-4	58	n/a	9/1/2020	36	No	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-5	58	n/a	9/1/2020	253	Yes	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-6	58	n/a	9/2/2020	37.3	No	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-7	58	n/a	9/2/2020	129	Yes	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-8	58	n/a	9/2/2020	298	Yes	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-9	58	n/a	9/2/2020	301	Yes	60	n/a	n/a	11.67	n/a	n/a	0.0005099	NP Inter (normality) 1 of 2

Exceeds Limit: BY-AP-MW-1, BY-AP-MW-10, BY-AP-MW-16, BY-AP-MW-8, BY-AP-MW-9

Prediction Limit
Interwell Non-parametric

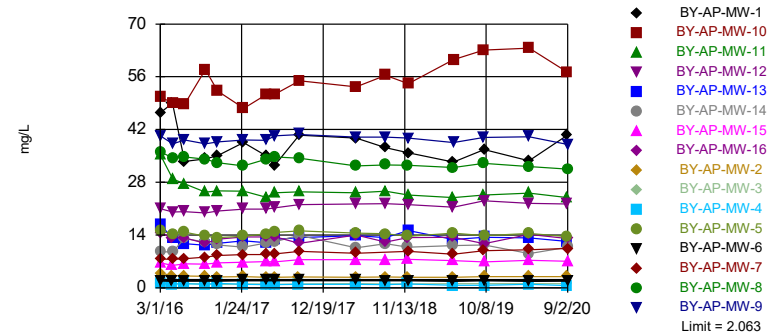


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 59 background values. 81.36% NDs. Annual per-constituent alpha = 0.01684. Individual comparison alpha = 0.0005305 (1 of 2). Comparing 16 points to limit.

Constituent: Boron Analysis Run 12/8/2020 4:51 PM View: Appendix III - Interwell
Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limit: BY-AP-MW-1, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15,...

Prediction Limit
Interwell Parametric

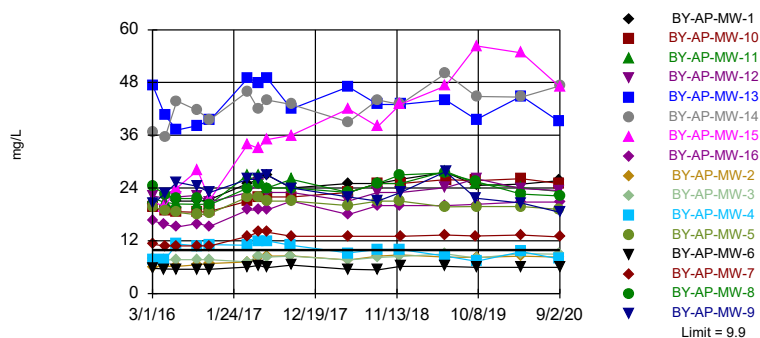


Background Data Summary: Mean=1.473, Std. Dev.=0.277, n=60. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.981, critical = 0.945. Kappa = 2.128 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0004702. Comparing 16 points to limit.

Constituent: Calcium Analysis Run 12/8/2020 4:51 PM View: Appendix III - Interwell
Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limit: BY-AP-MW-1, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15,...

Prediction Limit
Interwell Non-parametric

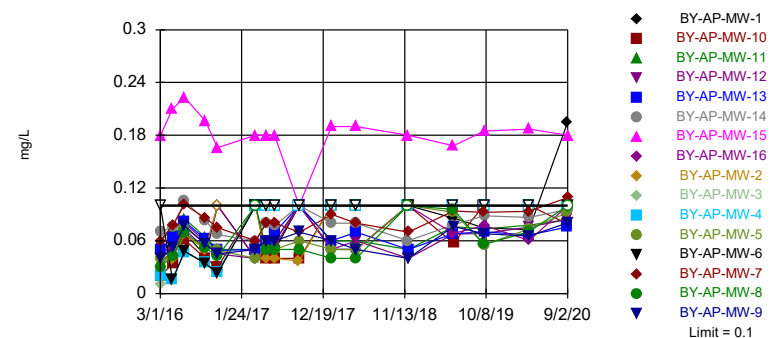


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 60 background values. Annual per-constituent alpha = 0.01619. Individual comparison alpha = 0.0005099 (1 of 2). Comparing 16 points to limit.

Constituent: Chloride Analysis Run 12/8/2020 4:52 PM View: Appendix III - Interwell
Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limit: BY-AP-MW-1, BY-AP-MW-15, BY-AP-MW-7

Prediction Limit
Interwell Non-parametric

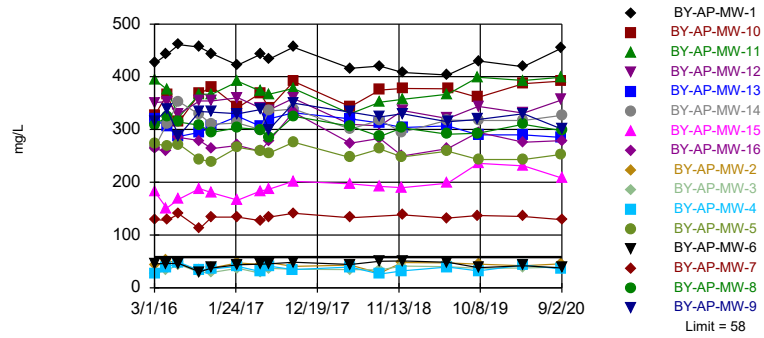


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 64 background values. 46.88% NDs. Annual per-constituent alpha = 0.01456. Individual comparison alpha = 0.0004581 (1 of 2). Comparing 16 points to limit.

Constituent: Fluoride Analysis Run 12/8/2020 4:52 PM View: Appendix III - Interwell
Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limit: BY-AP-MW-1, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15,...

Prediction Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 60 background values. 11.67% NDs. Annual per-constituent alpha = 0.01619. Individual comparison alpha = 0.0005099 (1 of 2). Comparing 16 points to limit.

Constituent: TDS Analysis Run 12/8/2020 4:52 PM View: Appendix III - Interwell
Plant Barry Client: Southern Company Data: Barry Ash Pond

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 12/8/2020 4:52 PM View: Appendix III - Interwell

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-GSA-MW-4 (bg)	BY-GSA-MW-3 (bg)	BY-GSA-MW-1 (bg)	BY-GSA-MW-2 (bg)	BY-AP-MW-4	BY-AP-MW-7	BY-AP-MW-11	BY-AP-MW-9	BY-AP-MW-6
2/23/2016	0.0257 (J)	<0.1	0.0212 (J)	0.0252 (J)					
3/1/2016					<0.1	0.0546 (J)	0.0482 (J)	1.79	<0.1
3/2/2016									
4/19/2016	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1
4/20/2016						0.0472 (J)	0.059 (J)	2.01	
6/6/2016	<0.1		<0.1						
6/7/2016		<0.1		0.0202 (J)	<0.1	0.0417 (J)			<0.1
6/8/2016							0.0568 (J)	2.23	
8/30/2016	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1
8/31/2016						0.036 (J)	0.0651 (J)	2.14	
10/18/2016	0.022 (J)	<0.1	<0.1	<0.1					
10/19/2016					<0.1	0.0386 (J)	0.06 (J)	2.13	<0.1
1/31/2017	<0.1	<0.1	<0.1	<0.1	<0.1	0.0343 (J)			<0.1
2/1/2017							0.0638 (J)	2.17	
5/2/2017	<0.1	<0.1	<0.1	<0.1	<0.1				
5/3/2017						0.037 (J)	0.0655 (J)	2.28	<0.1
6/6/2017	<0.1	<0.1	<0.1	<0.1	<0.1				
6/7/2017						0.0227 (J)	0.0468 (J)	2.25	<0.1
9/12/2017	<0.1				<0.1				
9/13/2017		<0.1	<0.1	<0.1			0.0751 (J)		
9/14/2017						0.0471 (J)		2.41	<0.1
5/1/2018	<0.1	<0.1		<0.1	<0.1				
5/2/2018			0.0362 (J)			0.0313 (J)	0.0545 (J)	2.34	<0.1
11/26/2018	<0.1								
11/27/2018		<0.1	0.11		<0.1				
11/28/2018						0.0311 (J)	0.0545 (J)	2.23	<0.1
5/28/2019	<0.1								
5/29/2019		<0.1	0.188	<0.1	<0.1	0.042 (J)	0.082 (J)		<0.1
5/30/2019								2.45	
9/30/2019						0.0418 (J)	0.103	2.34	
10/1/2019					<0.1				<0.1
10/2/2019	<0.1	<0.1	0.097 (J)	<0.1					
3/30/2020						0.0369 (J)			
3/31/2020	<0.1	<0.1	0.157	<0.1	<0.1		0.0815 (J)	2.27	<0.1
4/1/2020									
8/31/2020									
9/1/2020					<0.1		0.104		
9/2/2020						0.042 (J)		2.05	<0.1
9/8/2020	<0.1								
9/9/2020		<0.1	0.0999 (J)	<0.1					

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 12/8/2020 4:52 PM View: Appendix III - Interwell
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-16	BY-AP-MW-3
2/23/2016		
3/1/2016		
3/2/2016	1.47	<0.1
4/19/2016	1.53	<0.1
4/20/2016		
6/6/2016		
6/7/2016		<0.1
6/8/2016	1.7	
8/30/2016		
8/31/2016	1.68	<0.1
10/18/2016		
10/19/2016	1.53	<0.1
1/31/2017	1.51	<0.1
2/1/2017		
5/2/2017	1.64	<0.1
5/3/2017		
6/6/2017	1.57	<0.1
6/7/2017		
9/12/2017		<0.1
9/13/2017	2.18	
9/14/2017		
5/1/2018	1.57	<0.1
5/2/2018		
11/26/2018		
11/27/2018	1.58	<0.1
11/28/2018		
5/28/2019		
5/29/2019	1.7	<0.1
5/30/2019		
9/30/2019		
10/1/2019	2.05	<0.1
10/2/2019		
3/30/2020		
3/31/2020	1.74	<0.1
4/1/2020		
8/31/2020		
9/1/2020		<0.1
9/2/2020	1.9	
9/8/2020		
9/9/2020		

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/8/2020 4:52 PM View: Appendix III - Interwell

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-GSA-MW-1 (bg)	BY-GSA-MW-3 (bg)	BY-GSA-MW-2 (bg)	BY-GSA-MW-4 (bg)	BY-AP-MW-11	BY-AP-MW-4	BY-AP-MW-5	BY-AP-MW-6	BY-AP-MW-10
2/23/2016	1.28	1.77	1.11	1.42					
3/1/2016					35.3	1.07	15	1.87	50.6
3/2/2016									
4/19/2016	1.19	1.68	1.09	1.31		0.969		1.69	
4/20/2016					28.9		14.3		49.1
6/6/2016	1.19			1.35					
6/7/2016		1.68	1.16			1.08	14.8	1.75	
6/8/2016					27.6				48.7
8/30/2016	1.11	1.62	1.08	1.31		0.952	13.7	1.77	
8/31/2016					25.4				57.9
10/18/2016	1.04	1.53	1.03	1.22			13.3		
10/19/2016					25.7	1.17		1.8	52.2
1/31/2017	1.19	1.65	1.23	1.36		0.946	13.7	1.98	
2/1/2017					25.6				47.6
5/2/2017	1.05	1.58	1.28	1.24		0.826			
5/3/2017					24		14.3	1.97	51.3
6/6/2017	0.978	1.55	1.25	1.28		0.834			
6/7/2017					25.2		14.7	1.98	51.4
9/12/2017				1.47		0.884			
9/13/2017	1.14	1.71	1.6		25.5				
9/14/2017							15.1	2.14	54.9
5/1/2018		1.76	1.58	1.47		0.921			
5/2/2018	1.64				25.2		14.5	2.13	53.3
8/28/2018						0.8			56.4
8/29/2018					25.6		14.3	1.92	
11/26/2018				1.52					
11/27/2018	2.01	1.69	1.49			1.01	13.7		
11/28/2018					24.6			1.91	54.2
5/28/2019				1.6					
5/29/2019	1.85	1.74	1.59		23.9	0.627	14.5	1.72	
5/30/2019									60.5
9/30/2019					24.6				63.1
10/1/2019						0.645	13.8	1.92	
10/2/2019	1.55	1.86	1.7	1.7					
3/30/2020									
3/31/2020	1.96	1.92	1.43	1.78	25.1	0.898	14.4	1.68	63.6
4/1/2020									
8/31/2020									
9/1/2020					23.9	0.566	13.6		57.2
9/2/2020								1.8	
9/8/2020				1.94					
9/9/2020	1.43	1.97	1.5						

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/8/2020 4:52 PM View: Appendix III - Interwell
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-12	BY-AP-MW-1
2/23/2016		
3/1/2016		
3/2/2016	21	46.5
4/19/2016		49
4/20/2016	20.1	
6/6/2016		
6/7/2016		
6/8/2016	20.2	33.5
8/30/2016		
8/31/2016	19.9	34.2
10/18/2016		
10/19/2016	20.4	35.1
1/31/2017		38.5
2/1/2017	20.9	
5/2/2017		35.1
5/3/2017	20.9	
6/6/2017		32.4
6/7/2017	21.2	
9/12/2017		
9/13/2017	22.1	40.5
9/14/2017		
5/1/2018		39.7
5/2/2018	22.2	
8/28/2018		37.2
8/29/2018	22.3	
11/26/2018		
11/27/2018		
11/28/2018	22.1	35.8
5/28/2019		
5/29/2019	21.4	33.4
5/30/2019		
9/30/2019		
10/1/2019	23.1	36.7
10/2/2019		
3/30/2020		33.7
3/31/2020	22.4	
4/1/2020		
8/31/2020		
9/1/2020	22.2	40.5
9/2/2020		
9/8/2020		
9/9/2020		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 12/8/2020 4:52 PM View: Appendix III - Interwell

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-GSA-MW-3 (bg)	BY-GSA-MW-2 (bg)	BY-GSA-MW-1 (bg)	BY-GSA-MW-4 (bg)	BY-AP-MW-9	BY-AP-MW-5	BY-AP-MW-11	BY-AP-MW-4	BY-AP-MW-6
2/23/2016	3.68	3.99	3.59	3.5					
3/1/2016					20.4	19.7	21.7	7.74	5.77
3/2/2016									
4/19/2016	3.72	4.08	2.89	3.63				7.66	5.57
4/20/2016					22.7	18.9	20.7		
6/6/2016			3.12	3.6					
6/7/2016	3.66	4.28				18.5		11.3	5.52
6/8/2016					25.3		20.4		
8/30/2016	3.7	4.26	3.91	3.54		17.9		10.8	5.5
8/31/2016					24.4		20.3		
10/18/2016	3.77	4.26	3.9	3.68		18.2			
10/19/2016					23		20.3	11.1	5.55
3/20/2017	3.7	4.1	3.5	4.6					
3/21/2017								11	
3/22/2017					26	22	27		6
5/2/2017	4.6 (D)	5 (D)	3.5 (D)	3.9 (D)				12	
5/3/2017					26	22	27		6.4
6/6/2017	3.4 (D)	3.9 (D)	3.1 (D)	3.4 (D)				12	
6/7/2017					27	21	24		5.9
9/12/2017				4.3				11	
9/13/2017	3.9	4.3	4				26		
9/14/2017					24	21			6.5
5/1/2018	4.1	3.7		3.8				9.2	
5/2/2018			9.9		22	20	23		5.5
8/28/2018					21			10	
8/29/2018						21	25		5.4
11/26/2018				3.6					
11/27/2018	3.5	3.2	4.7			21		10	
11/28/2018					23		25		6.2
5/28/2019				3.6					
5/29/2019	3.58	2.93	5.48			19.7	27.8	8.53	6.15
5/30/2019					27.7				
9/30/2019					21.7		25		
10/1/2019						19.8		7.35	5.99
10/2/2019	3.64	2.75	3.65	3.5					
3/30/2020									
3/31/2020	3.47	2.72	3.17	3.34	20.6	19.8	24.1	9.54	5.94
4/1/2020									
8/31/2020									
9/1/2020						19.1	23.2	7.82	
9/2/2020					18.5				5.94
9/8/2020				3.29					
9/9/2020	3.47	2.32	2.92						

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 12/8/2020 4:52 PM View: Appendix III - Interwell
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-12	BY-AP-MW-1
2/23/2016		
3/1/2016		
3/2/2016	22.2	2.18 (o)
4/19/2016		9.01 (o)
4/20/2016	21.7	
6/6/2016		
6/7/2016		
6/8/2016	22	21
8/30/2016		
8/31/2016	22.3	21
10/18/2016		
10/19/2016	20.8	21.4
3/20/2017		
3/21/2017		25
3/22/2017	23	
5/2/2017		26
5/3/2017	25	
6/6/2017		27
6/7/2017	23	
9/12/2017		
9/13/2017	23	24
9/14/2017		
5/1/2018		25
5/2/2018	21	
8/28/2018		25
8/29/2018	23	
11/26/2018		
11/27/2018		
11/28/2018	23	26
5/28/2019		
5/29/2019	24.1	27.6
5/30/2019		
9/30/2019		
10/1/2019	26.1	24.6
10/2/2019		
3/30/2020		24.9
3/31/2020	23.9	
4/1/2020		
8/31/2020		
9/1/2020	23.4	25.7
9/2/2020		
9/8/2020		
9/9/2020		

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 12/8/2020 4:52 PM View: Appendix III - Interwell

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-GSA-MW-2 (bg)	BY-GSA-MW-4 (bg)	BY-GSA-MW-1 (bg)	BY-GSA-MW-3 (bg)	BY-AP-MW-9	BY-AP-MW-5	BY-AP-MW-7	BY-AP-MW-8	BY-AP-MW-11
2/23/2016	0.02 (J)	0.02 (J)	0.03 (J)	0.02 (J)					
3/1/2016					0.04 (J)	0.04 (J)	0.06 (J)	0.03 (J)	0.06 (J)
3/2/2016									
4/19/2016	0.021 (J)	0.015 (J)	0.023 (J)	0.016 (J)					
4/20/2016					0.052 (J)	0.043 (J)	0.078 (J)	0.043 (J)	0.073 (J)
6/6/2016		0.05 (J)	0.062 (J)						
6/7/2016	0.06 (J)			0.052 (J)		0.075 (J)	0.101 (J)	0.069 (J)	
6/8/2016					0.077 (J)				0.085 (J)
8/30/2016	0.05 (J)	0.036 (J)	0.053 (J)	0.038 (J)		0.057 (J)		0.052 (J)	
8/31/2016					0.056 (J)		0.086 (J)		0.064 (J)
10/18/2016	0.04 (J)	0.025 (J)	0.042 (J)	0.03 (J)		0.049 (J)		0.042 (J)	
10/19/2016					0.045 (J)		0.075 (J)		0.05 (J)
3/20/2017	<0.1	<0.1	<0.1	<0.1					
3/21/2017									
3/22/2017					0.05 (J)	0.04 (J)	0.06 (J)	<0.1	0.05 (J)
5/2/2017	0.04 (JD)	0.1 (D)	0.04 (JD)	0.1 (D)					
5/3/2017					0.06 (J)	0.05 (J)	0.08 (J)	0.05 (J)	0.06 (J)
6/6/2017	0.04 (JD)	0.1 (D)	0.1 (D)	0.1 (D)					
6/7/2017					0.06 (J)	0.05 (J)	0.08 (J)	0.05 (J)	0.06 (J)
9/12/2017		<0.1							
9/13/2017	0.043 (J)		0.04 (J)	<0.1					<0.1 (U*)
9/14/2017					0.07 (J)	0.06 (J)	0.07 (J)	0.05 (J)	
1/22/2018									
1/23/2018	0.04 (J)	<0.1	<0.1	<0.1	0.06 (J)				0.06 (J)
1/24/2018						0.05 (J)	0.09 (J)	0.04 (J)	
5/1/2018	0.04 (J)	<0.1		<0.1					
5/2/2018			0.04 (J)		0.05 (J)	0.05 (J)	0.08 (J)	0.04 (J)	0.06 (J)
11/26/2018		<0.1							
11/27/2018	<0.1		<0.1	<0.1		<0.1		<0.1	
11/28/2018					0.04 (J)		0.07 (J)		0.05 (J)
5/28/2019		<0.1							
5/29/2019	<0.1		0.0502 (J)	<0.1		0.0923 (J)	0.0937 (J)	0.0958 (J)	0.0759 (J)
5/30/2019					0.0763 (J)				
9/30/2019					0.0679 (J)		0.0925 (J)	0.0559 (J)	0.0733 (J)
10/1/2019						0.0557 (J)			
10/2/2019	<0.1	<0.1	<0.1	<0.1					
3/30/2020							0.0933 (J)	0.0701 (J)	
3/31/2020	<0.1	<0.1	<0.1	<0.1	0.0655 (J)	0.0735 (J)			0.078 (J)
4/1/2020									
8/31/2020									
9/1/2020						0.0921 (J)			0.0841 (J)
9/2/2020					0.0804 (J)		0.109	<0.1	
9/8/2020		<0.1							
9/9/2020	<0.1		<0.1	<0.1					

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 12/8/2020 4:52 PM View: Appendix III - Interwell
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-3	BY-AP-MW-16
2/23/2016		
3/1/2016		
3/2/2016	0.01 (J)	0.04 (J)
4/19/2016	0.014 (J)	0.05 (J)
4/20/2016		
6/6/2016		
6/7/2016	0.049 (J)	
6/8/2016		0.073 (J)
8/30/2016		
8/31/2016	0.034 (J)	0.051 (J)
10/18/2016		
10/19/2016	0.023 (J)	<0.1
3/20/2017		
3/21/2017	<0.1	0.04 (J)
3/22/2017		
5/2/2017	<0.1	0.05 (J)
5/3/2017		
6/6/2017	<0.1	0.053 (J)
6/7/2017		
9/12/2017	<0.1	
9/13/2017		<0.1 (U*)
9/14/2017		
1/22/2018		
1/23/2018		0.05 (J)
1/24/2018	<0.1	
5/1/2018	<0.1	0.05 (J)
5/2/2018		
11/26/2018		
11/27/2018	<0.1	<0.1
11/28/2018		
5/28/2019		
5/29/2019	<0.1	0.0683 (J)
5/30/2019		
9/30/2019		
10/1/2019	<0.1	0.0774 (J)
10/2/2019		
3/30/2020		
3/31/2020	<0.1	0.0602 (J)
4/1/2020		
8/31/2020		
9/1/2020	<0.1	
9/2/2020		<0.1
9/8/2020		
9/9/2020		

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 12/8/2020 4:52 PM View: Appendix III - Interwell

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-GSA-MW-1 (bg)	BY-GSA-MW-3 (bg)	BY-GSA-MW-2 (bg)	BY-GSA-MW-4 (bg)	BY-AP-MW-11	BY-AP-MW-4	BY-AP-MW-5	BY-AP-MW-6	BY-AP-MW-10
2/23/2016	26.7	40	30.7	<25					
3/1/2016					395	27.3	273	45.3	326
3/2/2016									
4/19/2016	<25	32	<25	<25		38		46	
4/20/2016					376		269		366
6/6/2016	32.7			28.7					
6/7/2016		38.7	35.3			48.7	272	46	
6/8/2016					324				314
8/30/2016	33.3	31.3	27.3	25.3		32.7	244	30	
8/31/2016					367				368
10/18/2016	27.3	26.7	<25	<25			238		
10/19/2016					367	36		37.3	381
1/31/2017	32	30	32.7	26		40.7	266	43.3	
2/1/2017					391				342
5/2/2017	31.3	30.7	30.7	<25		30.7			
5/3/2017					373		259	44.7	369
6/6/2017	35.3	32.7	34.7	42.7		41.3			
6/7/2017					367		255	45.3	340
9/12/2017				26.7		34.7			
9/13/2017	36.7	38	39.3		378				
9/14/2017							276	48.7	391
5/1/2018		35.3	42	34.7		39.3			
5/2/2018	34				330		247	44	343
8/28/2018						26			375
8/29/2018					352		263	50	
11/26/2018				32.7					
11/27/2018	50.7	36	31.3			32	248		
11/28/2018					357			50.7	378
5/28/2019				31.3					
5/29/2019	58	37.3	40		367	39.3	259	48.7	
5/30/2019									377
9/30/2019					399				361
10/1/2019						32	243	38	
10/2/2019	46	36.7	41.3	36					
3/30/2020									
3/31/2020	53.3	39.3	40	36.7	393	42.7	243	42	387
4/1/2020									
8/31/2020									
9/1/2020					399	36	253		392
9/2/2020								37.3	
9/8/2020				39.3					
9/9/2020	42	42.7	40.7						

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 12/8/2020 4:52 PM View: Appendix III - Interwell
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-12	BY-AP-MW-1
2/23/2016		
3/1/2016		
3/2/2016	351	426
4/19/2016		442
4/20/2016	353	
6/6/2016		
6/7/2016		
6/8/2016	330	461
8/30/2016		
8/31/2016	354	456
10/18/2016		
10/19/2016	354	444
1/31/2017		422
2/1/2017	360	
5/2/2017		442
5/3/2017	341	
6/6/2017		433
6/7/2017	337	
9/12/2017		
9/13/2017	359	456
9/14/2017		
5/1/2018		416
5/2/2018	310	
8/28/2018		420
8/29/2018	307	
11/26/2018		
11/27/2018		
11/28/2018	336	408
5/28/2019		
5/29/2019	321	403
5/30/2019		
9/30/2019		
10/1/2019	344	430
10/2/2019		
3/30/2020		419
3/31/2020	331	
4/1/2020		
8/31/2020		
9/1/2020	356	454
9/2/2020		
9/8/2020		
9/9/2020		

FIGURE E.

Appendix III - Intrawell Prediction Limits - Significant Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 12/8/2020, 5:00 PM

Constituent	Well	Upper Lim	Lower Lim	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH (pH)	BY-AP-MW-11	6.407	6.129	9/1/2020	5.87	Yes	15	6.268	0.05294	0	None	No	0.0002351	Param Intra 1 of 2
pH (pH)	BY-AP-MW-13	6.183	6.001	9/1/2020	5.82	Yes	15	6.092	0.03468	0	None	No	0.0002351	Param Intra 1 of 2
pH (pH)	BY-AP-MW-14	6.215	5.954	9/2/2020	5.8	Yes	15	37.04	0.6078	0	None	x^2	0.0002351	Param Intra 1 of 2
pH (pH)	BY-AP-MW-16	5.936	5.675	9/2/2020	5.47	Yes	15	5.805	0.04998	0	None	No	0.0002351	Param Intra 1 of 2
pH (pH)	BY-AP-MW-3	5.327	4.816	9/1/2020	4.24	Yes	15	5.071	0.0976	0	None	No	0.0002351	Param Intra 1 of 2
pH (pH)	BY-AP-MW-8	6.288	6.104	9/2/2020	5.89	Yes	15	6.196	0.03521	0	None	No	0.0002351	Param Intra 1 of 2
pH (pH)	BY-AP-MW-9	6.383	6.124	9/2/2020	5.97	Yes	15	6.253	0.04938	0	None	No	0.0002351	Param Intra 1 of 2
Sulfate (mg/L)	BY-AP-MW-1	6.348	n/a	9/1/2020	23.1	Yes	13	52.17	74.33	46.15	Kaplan-Meier	x^3	0.0004702	Param Intra 1 of 2
Sulfate (mg/L)	BY-AP-MW-10	5	n/a	9/1/2020	15.6	Yes	13	n/a	n/a	69.23	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	BY-AP-MW-11	19.37	n/a	9/1/2020	42.8	Yes	13	1.308	0.5028	46.15	Kaplan-Meier	x^(1/3)	0.0004702	Param Intra 1 of 2
Sulfate (mg/L)	BY-AP-MW-12	7.04	n/a	9/1/2020	32.1	Yes	12	n/a	n/a	75	n/a	n/a	0.01077	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	BY-AP-MW-15	6.2	n/a	9/2/2020	7.61	Yes	13	n/a	n/a	76.92	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	BY-AP-MW-16	6.72	n/a	9/2/2020	13.3	Yes	13	n/a	n/a	69.23	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	BY-AP-MW-5	5.51	n/a	9/1/2020	11	Yes	13	n/a	n/a	69.23	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	BY-AP-MW-8	6.01	n/a	9/2/2020	15.8	Yes	13	n/a	n/a	76.92	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	BY-AP-MW-9	5.91	n/a	9/2/2020	21.9	Yes	13	n/a	n/a	69.23	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2

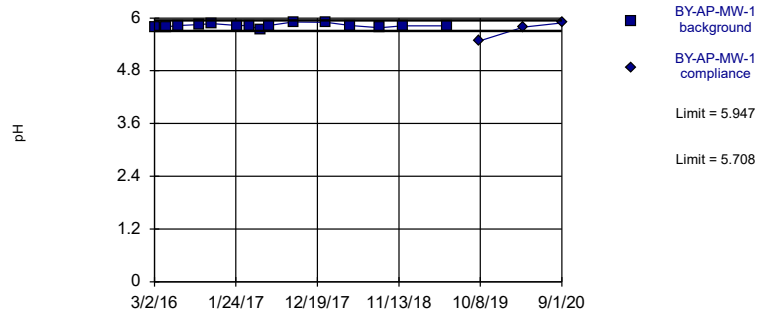
Appendix III - Intrawell Prediction Limits - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 12/8/2020, 4:57 PM

Constituent	Well	Upper Lim	Lower Lim	Date	Observ.	Sig.	Bq N	Bq Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH (pH)	BY-AP-MW-1	5.947	5.708	9/1/2020	5.89	No	15	5.827	0.04574	0	None	No	0.0002351	Param Intra 1 of 2
pH (pH)	BY-AP-MW-10	6.413	6.194	9/1/2020	6.33	No	15	6.303	0.04186	0	None	No	0.0002351	Param Intra 1 of 2
pH (pH)	BY-AP-MW-11	6.407	6.129	9/1/2020	5.87	Yes	15	6.268	0.05294	0	None	No	0.0002351	Param Intra 1 of 2
pH (pH)	BY-AP-MW-12	6.282	6.038	9/1/2020	6.19	No	15	6.16	0.04675	0	None	No	0.0002351	Param Intra 1 of 2
pH (pH)	BY-AP-MW-13	6.183	6.001	9/1/2020	5.82	Yes	15	6.092	0.03468	0	None	No	0.0002351	Param Intra 1 of 2
pH (pH)	BY-AP-MW-14	6.215	5.954	9/2/2020	5.8	Yes	15	37.04	0.6078	0	None	x^2	0.0002351	Param Intra 1 of 2
pH (pH)	BY-AP-MW-15	6.831	6.476	9/2/2020	6.57	No	15	6.653	0.06789	0	None	No	0.0002351	Param Intra 1 of 2
pH (pH)	BY-AP-MW-16	5.936	5.675	9/2/2020	5.47	Yes	15	5.805	0.04998	0	None	No	0.0002351	Param Intra 1 of 2
pH (pH)	BY-AP-MW-2	6.156	5.437	8/31/2020	5.57	No	15	5.797	0.1375	0	None	No	0.0002351	Param Intra 1 of 2
pH (pH)	BY-AP-MW-3	5.327	4.816	9/1/2020	4.24	Yes	15	5.071	0.0976	0	None	No	0.0002351	Param Intra 1 of 2
pH (pH)	BY-AP-MW-4	5.362	4.114	9/1/2020	4.23	No	15	4.738	0.2385	0	None	No	0.0002351	Param Intra 1 of 2
pH (pH)	BY-AP-MW-5	6.062	5.922	9/1/2020	5.93	No	15	5.992	0.02678	0	None	No	0.0002351	Param Intra 1 of 2
pH (pH)	BY-AP-MW-6	5.627	5.125	9/2/2020	5.16	No	15	5.376	0.09605	0	None	No	0.0002351	Param Intra 1 of 2
pH (pH)	BY-AP-MW-7	6.419	6.16	9/2/2020	6.25	No	14	6.289	0.04843	0	None	No	0.0002351	Param Intra 1 of 2
pH (pH)	BY-AP-MW-8	6.288	6.104	9/2/2020	5.89	Yes	15	6.196	0.03521	0	None	No	0.0002351	Param Intra 1 of 2
pH (pH)	BY-AP-MW-9	6.383	6.124	9/2/2020	5.97	Yes	15	6.253	0.04938	0	None	No	0.0002351	Param Intra 1 of 2
pH (pH)	BY-GSA-MW-1	4.911	4.482	9/9/2020	4.65	No	14	4.696	0.08025	0	None	No	0.0002351	Param Intra 1 of 2
pH (pH)	BY-GSA-MW-2	4.958	4.493	9/9/2020	4.67	No	14	4.726	0.08689	0	None	No	0.0002351	Param Intra 1 of 2
pH (pH)	BY-GSA-MW-3	5.095	4.729	9/9/2020	4.76	No	14	4.912	0.0683	0	None	No	0.0002351	Param Intra 1 of 2
pH (pH)	BY-GSA-MW-4	5.043	4.641	9/8/2020	4.75	No	14	4.842	0.07516	0	None	No	0.0002351	Param Intra 1 of 2
Sulfate (mg/L)	BY-AP-MW-1	6.348	n/a	9/1/2020	23.1	Yes	13	52.17	74.33	46.15	Kaplan-Meier	x^3	0.0004702	Param Intra 1 of 2
Sulfate (mg/L)	BY-AP-MW-10	5	n/a	9/1/2020	15.6	Yes	13	n/a	n/a	69.23	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	BY-AP-MW-11	19.37	n/a	9/1/2020	42.8	Yes	13	1.308	0.5028	46.15	Kaplan-Meier	x^(1/3)	0.0004702	Param Intra 1 of 2
Sulfate (mg/L)	BY-AP-MW-12	7.04	n/a	9/1/2020	32.1	Yes	12	n/a	n/a	75	n/a	n/a	0.01077	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	BY-AP-MW-13	49.5	n/a	9/1/2020	14.2	No	13	n/a	n/a	38.46	n/a	n/a	0.009692	NP Intra (normality) 1 of 2
Sulfate (mg/L)	BY-AP-MW-14	67.6	n/a	9/2/2020	18.5	No	13	n/a	n/a	69.23	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	BY-AP-MW-15	6.2	n/a	9/2/2020	7.61	Yes	13	n/a	n/a	76.92	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	BY-AP-MW-16	6.72	n/a	9/2/2020	13.3	Yes	13	n/a	n/a	69.23	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	BY-AP-MW-2	3.3	n/a	8/31/2020	0.576J	No	13	n/a	n/a	69.23	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	BY-AP-MW-3	5	n/a	9/1/2020	0.705J	No	13	n/a	n/a	53.85	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	BY-AP-MW-4	5.906	n/a	9/1/2020	1.83	No	13	2.804	1.132	7.692	None	No	0.0004702	Param Intra 1 of 2
Sulfate (mg/L)	BY-AP-MW-5	5.51	n/a	9/1/2020	11	Yes	13	n/a	n/a	69.23	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	BY-AP-MW-6	2.774	n/a	9/2/2020	1.02	No	13	1.027	0.2332	30.77	Kaplan-Meier	sqrt(x)	0.0004702	Param Intra 1 of 2
Sulfate (mg/L)	BY-AP-MW-7	5	n/a	9/2/2020	3.59	No	12	n/a	n/a	50	n/a	n/a	0.01077	NP Intra (normality) 1 of 2
Sulfate (mg/L)	BY-AP-MW-8	6.01	n/a	9/2/2020	15.8	Yes	13	n/a	n/a	76.92	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	BY-AP-MW-9	5.91	n/a	9/2/2020	21.9	Yes	13	n/a	n/a	69.23	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	BY-GSA-MW-1	23.3	n/a	9/9/2020	16.5	No	12	n/a	n/a	0	n/a	n/a	0.01077	NP Intra (normality) 1 of 2
Sulfate (mg/L)	BY-GSA-MW-2	10.46	n/a	9/9/2020	6.08	No	11	6.358	1.408	0	None	No	0.0004702	Param Intra 1 of 2
Sulfate (mg/L)	BY-GSA-MW-3	9.409	n/a	9/9/2020	7.13	No	12	7.456	0.6976	0	None	No	0.0004702	Param Intra 1 of 2
Sulfate (mg/L)	BY-GSA-MW-4	8.668	n/a	9/8/2020	6.52	No	12	6.626	0.7293	0	None	No	0.0004702	Param Intra 1 of 2

Within Limits

Prediction Limit
Intrawell Parametric

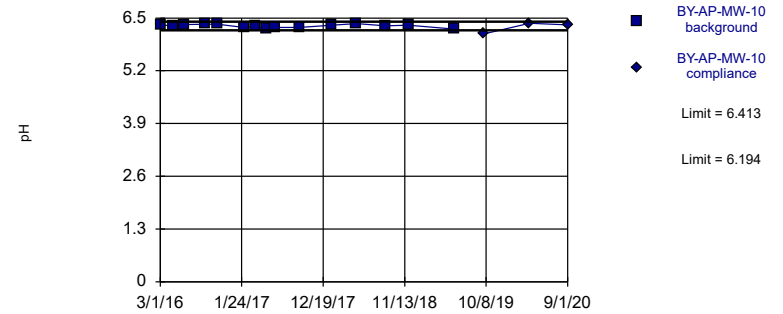


Background Data Summary: Mean=5.827, Std. Dev.=0.04574, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9458, critical = 0.835. Kappa = 2.617 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH Analysis Run 12/8/2020 4:54 PM View: Appendix III - Intrawell
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

Prediction Limit
Intrawell Parametric

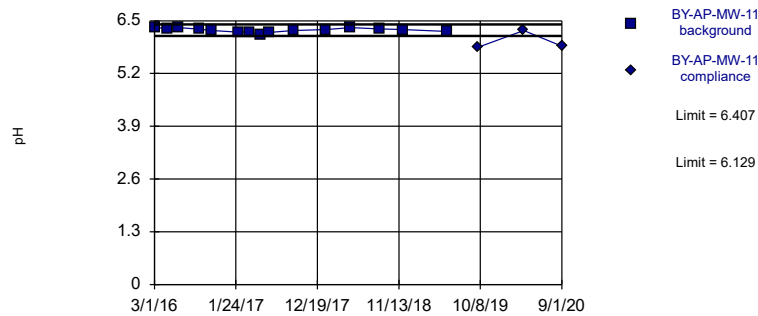


Background Data Summary: Mean=6.303, Std. Dev.=0.04186, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9284, critical = 0.835. Kappa = 2.617 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH Analysis Run 12/8/2020 4:54 PM View: Appendix III - Intrawell
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limits

Prediction Limit
Intrawell Parametric

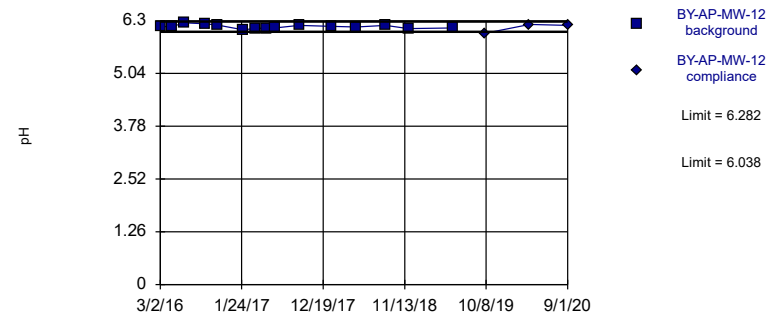


Background Data Summary: Mean=6.268, Std. Dev.=0.05294, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9541, critical = 0.835. Kappa = 2.617 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH Analysis Run 12/8/2020 4:54 PM View: Appendix III - Intrawell
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

Prediction Limit
Intrawell Parametric

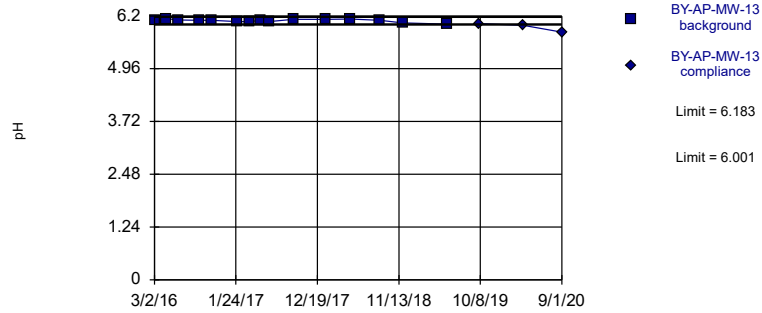


Background Data Summary: Mean=6.16, Std. Dev.=0.04675, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9762, critical = 0.835. Kappa = 2.617 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH Analysis Run 12/8/2020 4:54 PM View: Appendix III - Intrawell
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limits

Prediction Limit
Intrawell Parametric

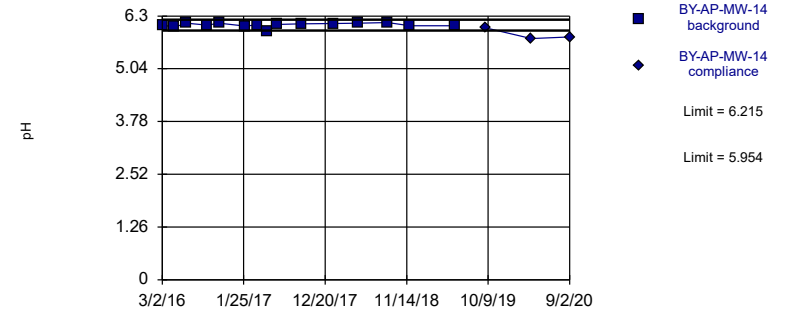


Background Data Summary: Mean=6.092, Std. Dev.=0.03468, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9128, critical = 0.835. Kappa = 2.617 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH Analysis Run 12/8/2020 4:54 PM View: Appendix III - Intrawell
Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limits

Prediction Limit
Intrawell Parametric

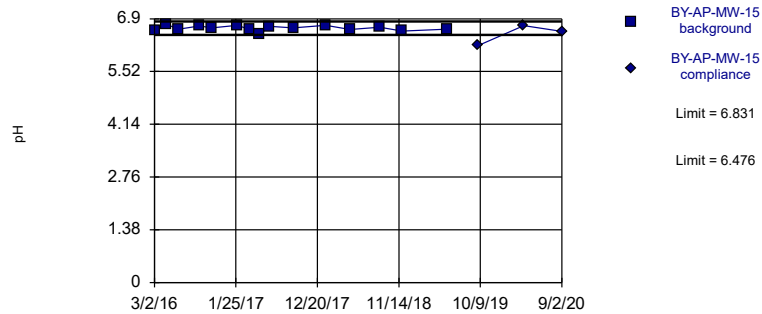


Background Data Summary (based on square transformation): Mean=37.04, Std. Dev.=0.6078, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8381, critical = 0.835. Kappa = 2.617 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH Analysis Run 12/8/2020 4:54 PM View: Appendix III - Intrawell
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

Prediction Limit
Intrawell Parametric

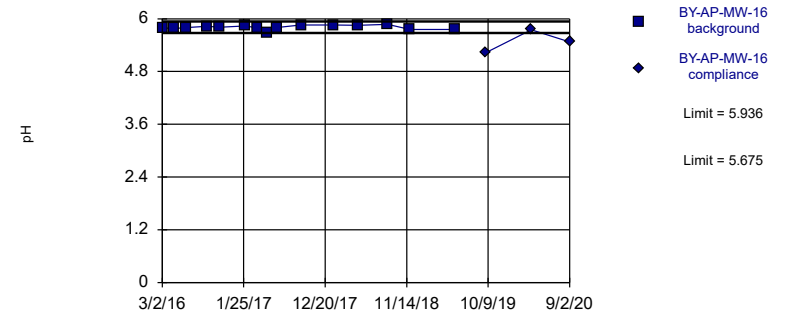


Background Data Summary: Mean=6.653, Std. Dev.=0.06789, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9443, critical = 0.835. Kappa = 2.617 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH Analysis Run 12/8/2020 4:54 PM View: Appendix III - Intrawell
Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limits

Prediction Limit
Intrawell Parametric

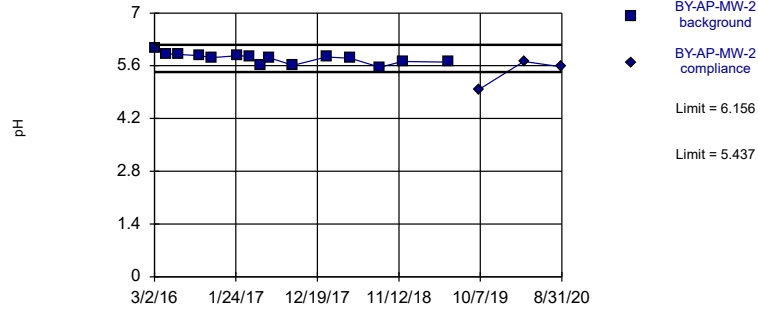


Background Data Summary: Mean=5.805, Std. Dev.=0.04998, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9236, critical = 0.835. Kappa = 2.617 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH Analysis Run 12/8/2020 4:54 PM View: Appendix III - Intrawell
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

Prediction Limit
Intrawell Parametric

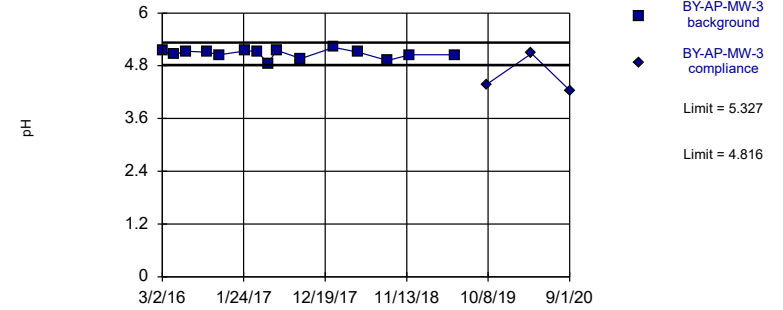


Background Data Summary: Mean=5.797, Std. Dev.=0.1375, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.949, critical = 0.835. Kappa = 2.617 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH Analysis Run 12/8/2020 4:54 PM View: Appendix III - Intrawell
Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limits

Prediction Limit
Intrawell Parametric

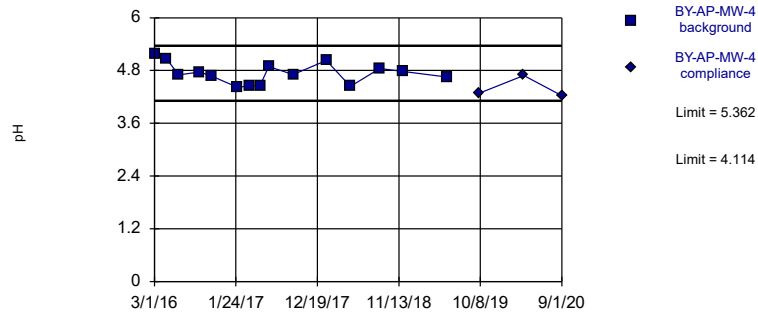


Background Data Summary: Mean=5.071, Std. Dev.=0.0976, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9102, critical = 0.835. Kappa = 2.617 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH Analysis Run 12/8/2020 4:54 PM View: Appendix III - Intrawell
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

Prediction Limit
Intrawell Parametric

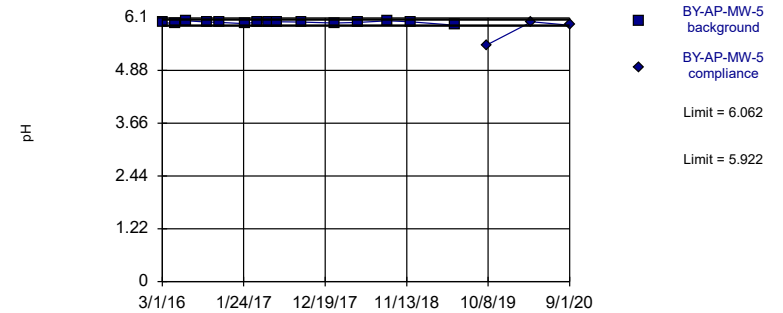


Background Data Summary: Mean=4.738, Std. Dev.=0.2385, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9433, critical = 0.835. Kappa = 2.617 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH Analysis Run 12/8/2020 4:54 PM View: Appendix III - Intrawell
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

Prediction Limit
Intrawell Parametric

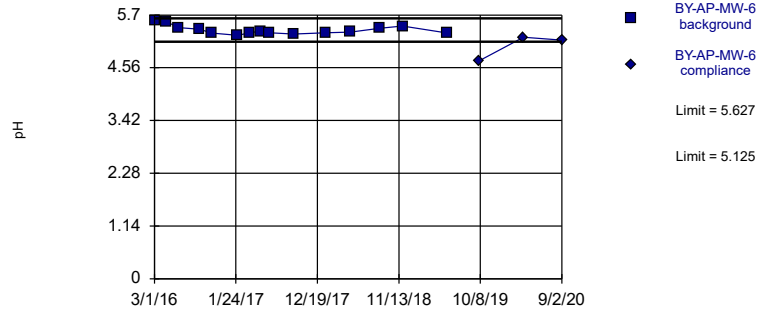


Background Data Summary: Mean=5.992, Std. Dev.=0.02678, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9327, critical = 0.835. Kappa = 2.617 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH Analysis Run 12/8/2020 4:54 PM View: Appendix III - Intrawell
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

Prediction Limit
Intrawell Parametric

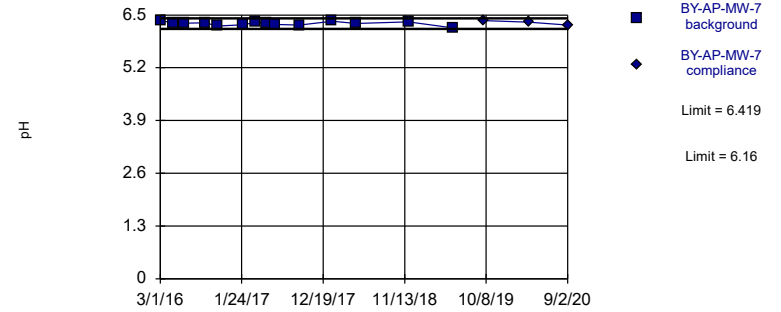


Background Data Summary: Mean=5.376, Std. Dev.=0.09605, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8715, critical = 0.835. Kappa = 2.617 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH Analysis Run 12/8/2020 4:54 PM View: Appendix III - Intrawell
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

Prediction Limit
Intrawell Parametric

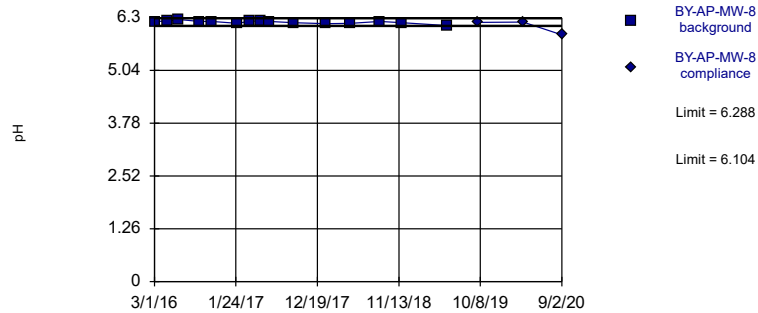


Background Data Summary: Mean=6.289, Std. Dev.=0.04843, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9643, critical = 0.825. Kappa = 2.678 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH Analysis Run 12/8/2020 4:54 PM View: Appendix III - Intrawell
Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limits

Prediction Limit
Intrawell Parametric

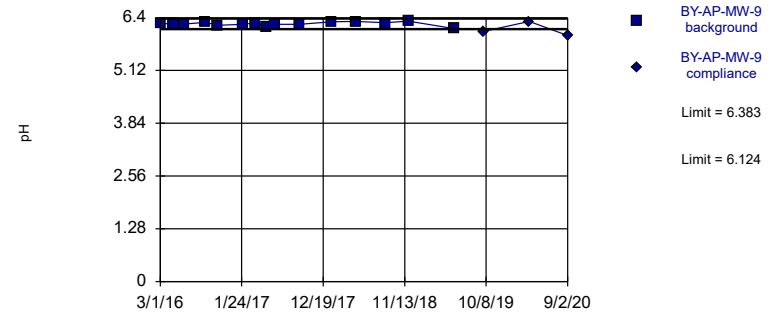


Background Data Summary: Mean=6.196, Std. Dev.=0.03521, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9094, critical = 0.835. Kappa = 2.617 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH Analysis Run 12/8/2020 4:54 PM View: Appendix III - Intrawell
Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limits

Prediction Limit
Intrawell Parametric

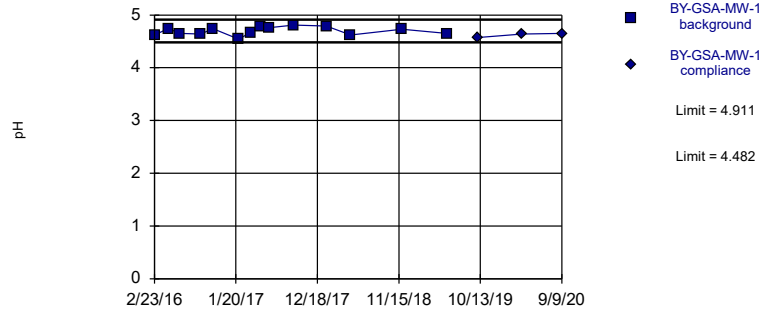


Background Data Summary: Mean=6.253, Std. Dev.=0.04938, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9251, critical = 0.835. Kappa = 2.617 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH Analysis Run 12/8/2020 4:54 PM View: Appendix III - Intrawell
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

Prediction Limit Intrawell Parametric

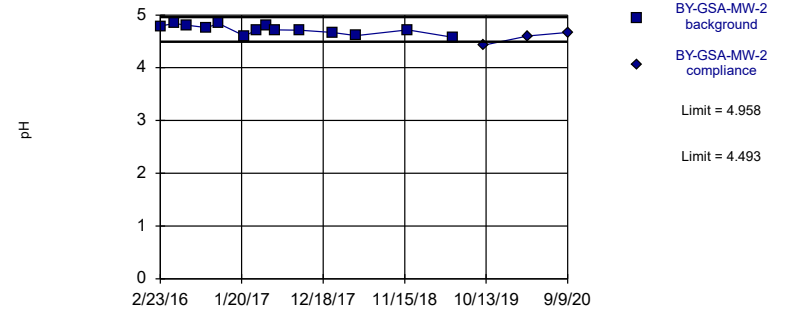


Background Data Summary: Mean=4.696, Std. Dev.=0.08025, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9416, critical = 0.825. Kappa = 2.678 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH Analysis Run 12/8/2020 4:55 PM View: Appendix III - Intrawell
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

Prediction Limit Intrawell Parametric

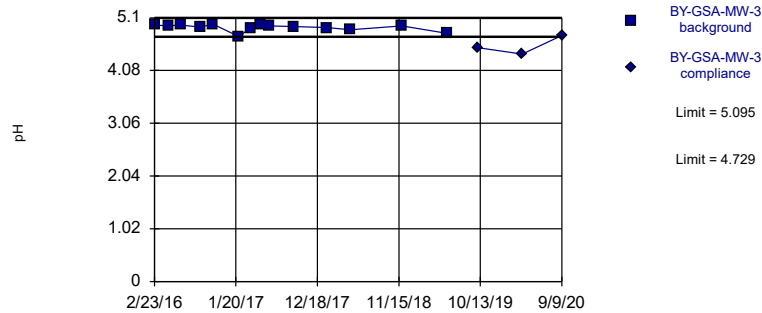


Background Data Summary: Mean=4.726, Std. Dev.=0.08689, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9314, critical = 0.825. Kappa = 2.678 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH Analysis Run 12/8/2020 4:55 PM View: Appendix III - Intrawell
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

Prediction Limit Intrawell Parametric

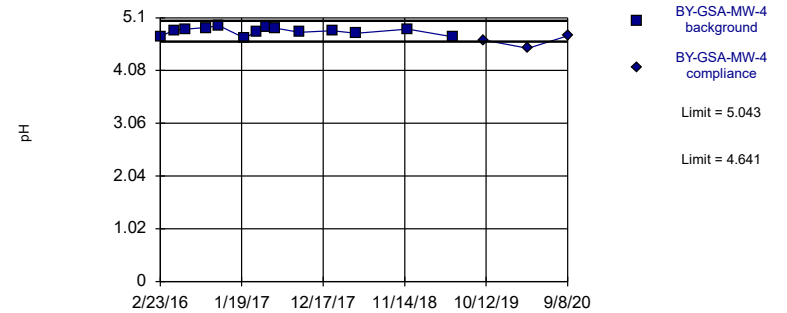


Background Data Summary: Mean=4.912, Std. Dev.=0.0683, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8283, critical = 0.825. Kappa = 2.678 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH Analysis Run 12/8/2020 4:55 PM View: Appendix III - Intrawell
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

Prediction Limit Intrawell Parametric

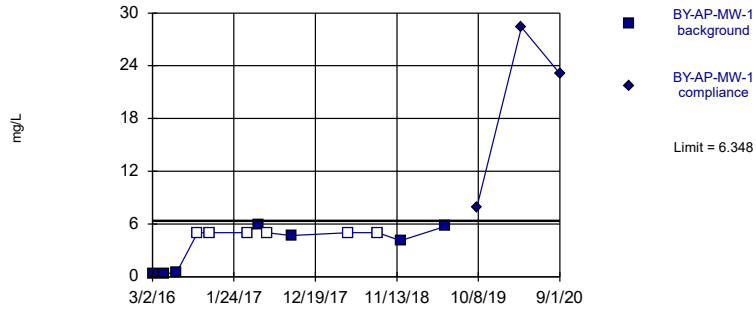


Background Data Summary: Mean=4.842, Std. Dev.=0.07516, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9458, critical = 0.825. Kappa = 2.678 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH Analysis Run 12/8/2020 4:55 PM View: Appendix III - Intrawell
Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limit

Prediction Limit
Intrawell Parametric

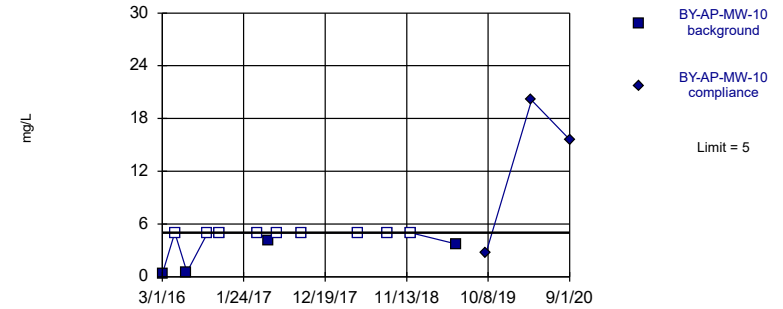


Background Data Summary (based on cube transformation) (after Kaplan-Meier Adjustment): Mean=52.17, Std. Dev.=74.33, n=13, 46.15% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8687, critical = 0.814. Kappa = 2.739 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Sulfate Analysis Run 12/8/2020 4:55 PM View: Appendix III - Intrawell
Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limit

Prediction Limit
Intrawell Non-parametric

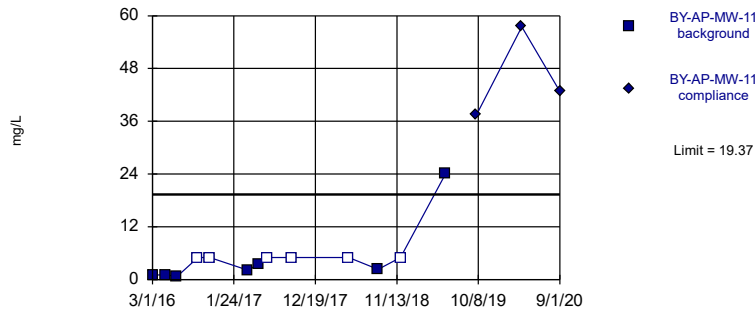


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 13 background values. 69.23% NDs. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Sulfate Analysis Run 12/8/2020 4:55 PM View: Appendix III - Intrawell
Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limit

Prediction Limit
Intrawell Parametric

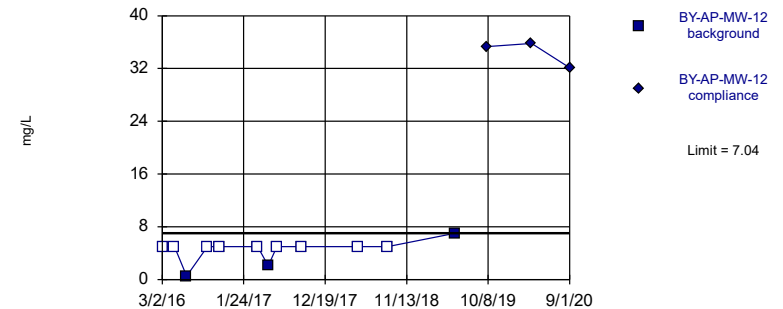


Background Data Summary (based on cube root transformation) (after Kaplan-Meier Adjustment): Mean=1.308, Std. Dev.=0.5028, n=13, 46.15% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8281, critical = 0.814. Kappa = 2.739 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Sulfate Analysis Run 12/8/2020 4:55 PM View: Appendix III - Intrawell
Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limit

Prediction Limit
Intrawell Non-parametric

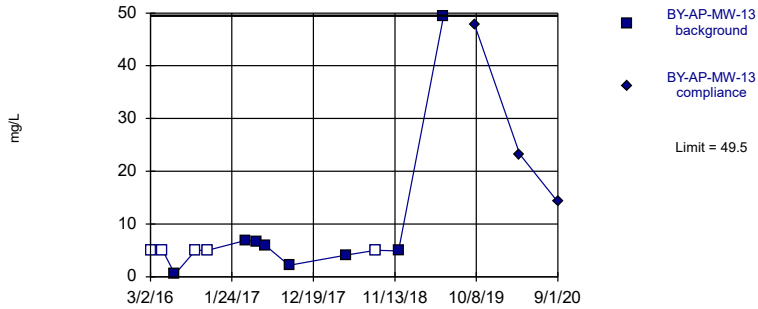


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 75% NDs. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01077 (1 of 2).

Constituent: Sulfate Analysis Run 12/8/2020 4:55 PM View: Appendix III - Intrawell
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limit

Prediction Limit
Intrawell Non-parametric

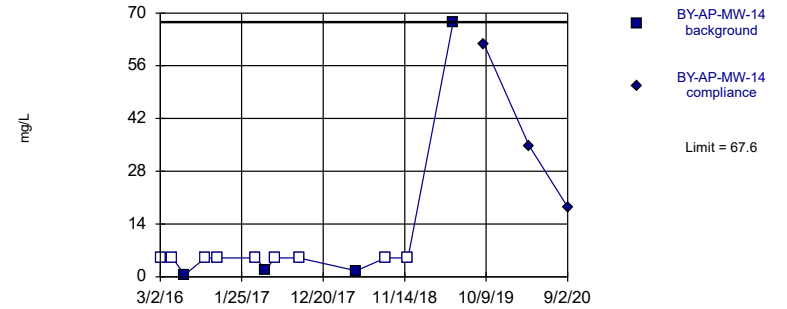


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 13 background values. 38.46% NDs. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Sulfate Analysis Run 12/8/2020 4:55 PM View: Appendix III - Intrawell
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limit

Prediction Limit
Intrawell Non-parametric

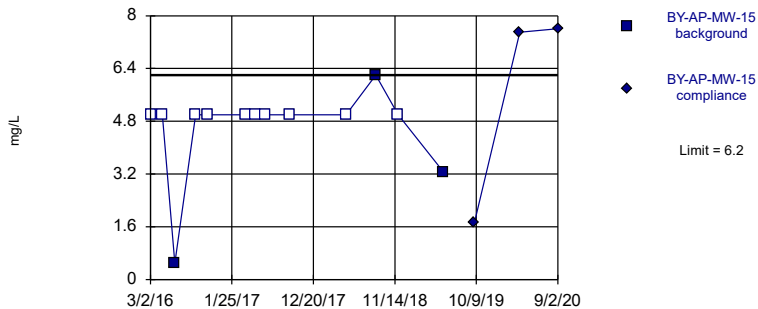


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 13 background values. 69.23% NDs. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Sulfate Analysis Run 12/8/2020 4:55 PM View: Appendix III - Intrawell
Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limit

Prediction Limit
Intrawell Non-parametric

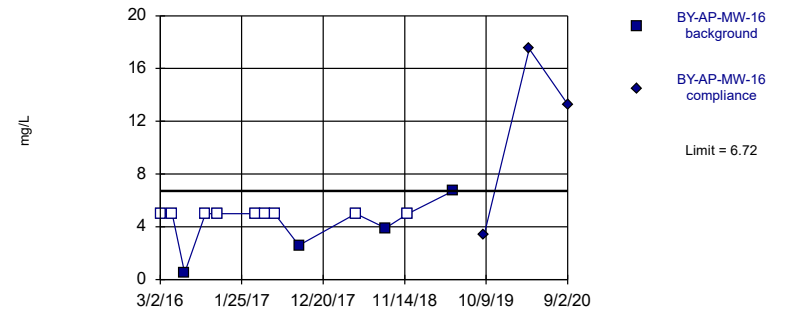


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 13 background values. 76.92% NDs. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Sulfate Analysis Run 12/8/2020 4:55 PM View: Appendix III - Intrawell
Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limit

Prediction Limit
Intrawell Non-parametric

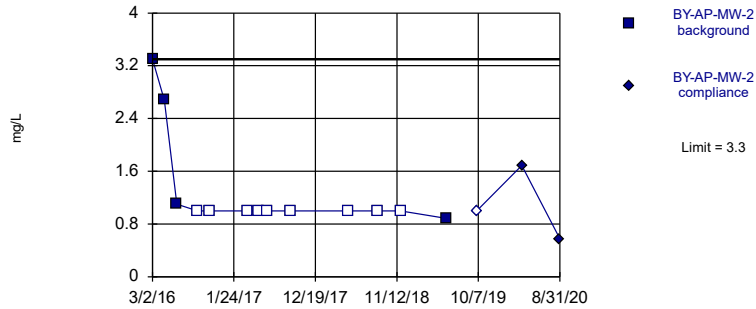


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 13 background values. 69.23% NDs. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Sulfate Analysis Run 12/8/2020 4:55 PM View: Appendix III - Intrawell
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limit

Prediction Limit Intrawell Non-parametric

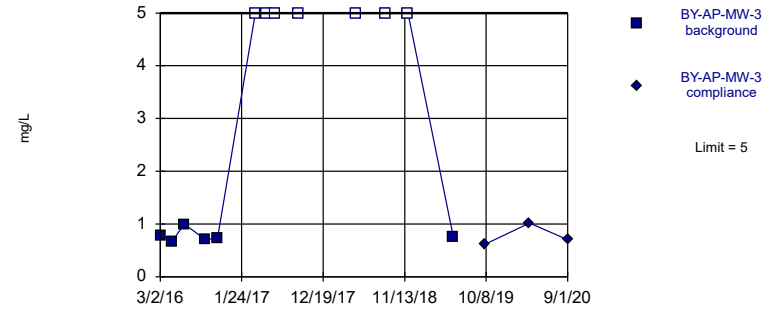


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 13 background values. 69.23% NDs. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Sulfate Analysis Run 12/8/2020 4:55 PM View: Appendix III - Intrawell
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limit

Prediction Limit Intrawell Non-parametric

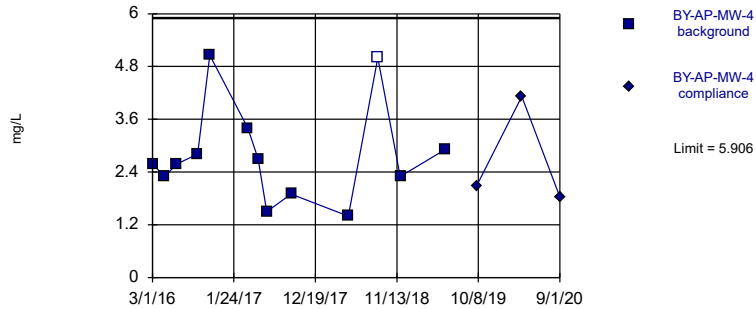


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 13 background values. 53.85% NDs. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Sulfate Analysis Run 12/8/2020 4:55 PM View: Appendix III - Intrawell
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limit

Prediction Limit Intrawell Parametric

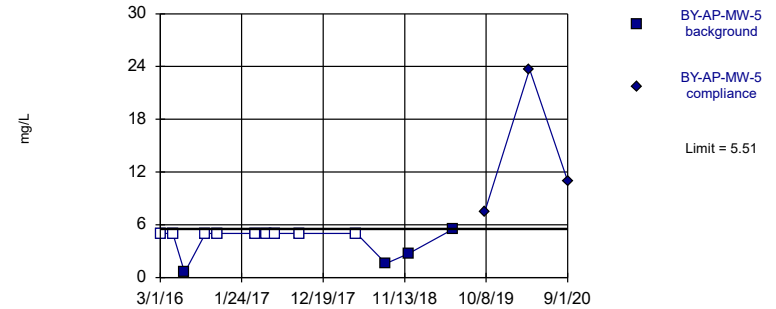


Background Data Summary: Mean=2.804, Std. Dev.=1.132, n=13, 7.692% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8682, critical = 0.814. Kappa = 2.739 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Sulfate Analysis Run 12/8/2020 4:55 PM View: Appendix III - Intrawell
Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limit

Prediction Limit Intrawell Non-parametric

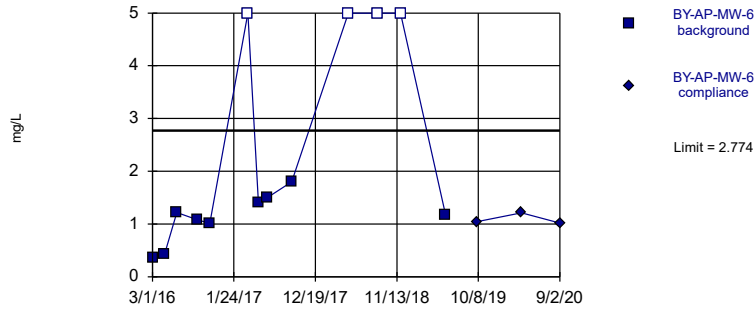


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 13 background values. 69.23% NDs. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Sulfate Analysis Run 12/8/2020 4:55 PM View: Appendix III - Intrawell
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limit

Prediction Limit
Intrawell Parametric

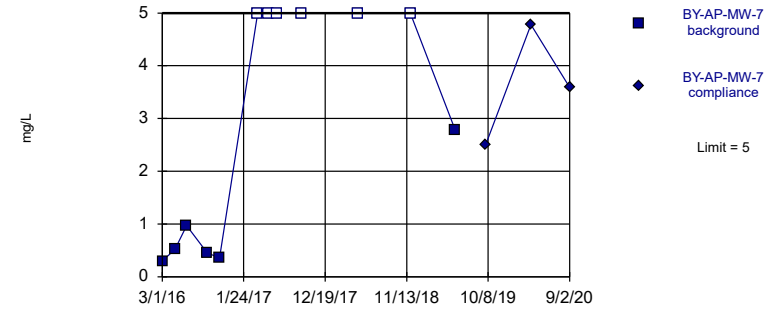


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=1.027, Std. Dev.=0.2332, n=13, 30.77% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8266, critical = 0.814. Kappa = 2.739 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Sulfate Analysis Run 12/8/2020 4:55 PM View: Appendix III - Intrawell
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limit

Prediction Limit
Intrawell Non-parametric

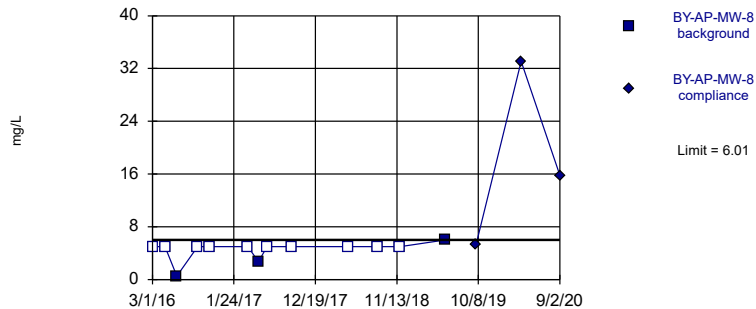


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 12 background values. 50% NDs. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01077 (1 of 2).

Constituent: Sulfate Analysis Run 12/8/2020 4:55 PM View: Appendix III - Intrawell
Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limit

Prediction Limit
Intrawell Non-parametric

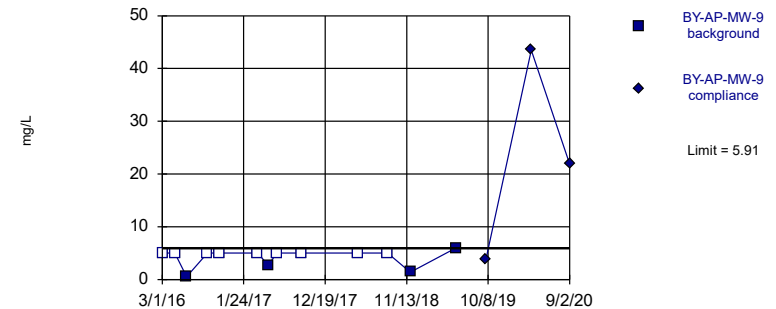


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 13 background values. 76.92% NDs. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Sulfate Analysis Run 12/8/2020 4:55 PM View: Appendix III - Intrawell
Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limit

Prediction Limit
Intrawell Non-parametric

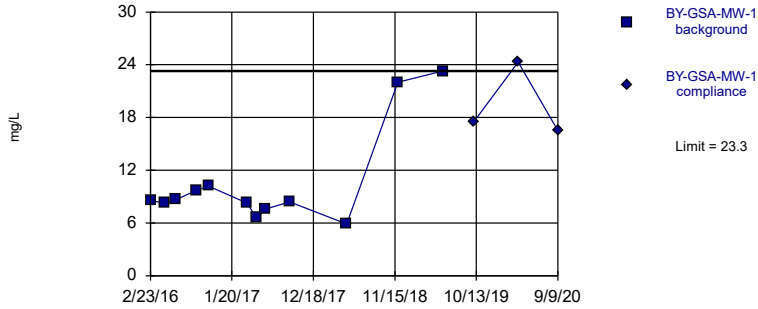


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 13 background values. 69.23% NDs. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Sulfate Analysis Run 12/8/2020 4:55 PM View: Appendix III - Intrawell
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limit

Prediction Limit
Intrawell Non-parametric

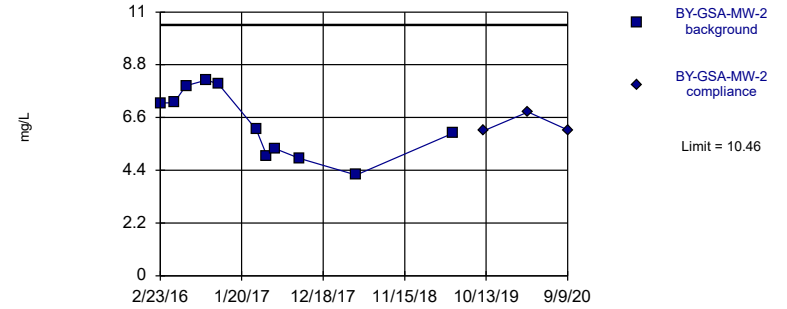


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 12 background values. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01077 (1 of 2).

Constituent: Sulfate Analysis Run 12/8/2020 4:55 PM View: Appendix III - Intrawell
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limit

Prediction Limit
Intrawell Parametric

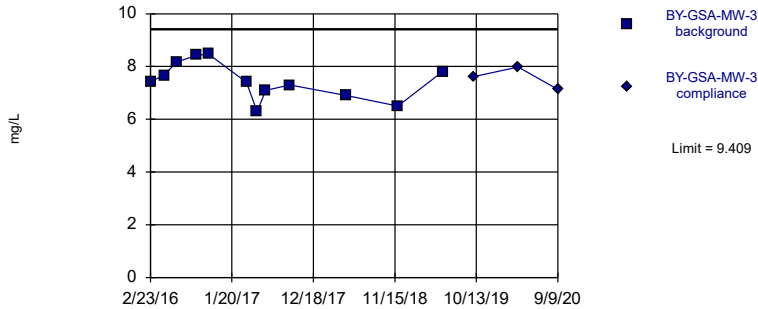


Background Data Summary: Mean=6.358, Std. Dev.=1.408, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9195, critical = 0.792. Kappa = 2.915 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Sulfate Analysis Run 12/8/2020 4:55 PM View: Appendix III - Intrawell
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limit

Prediction Limit
Intrawell Parametric

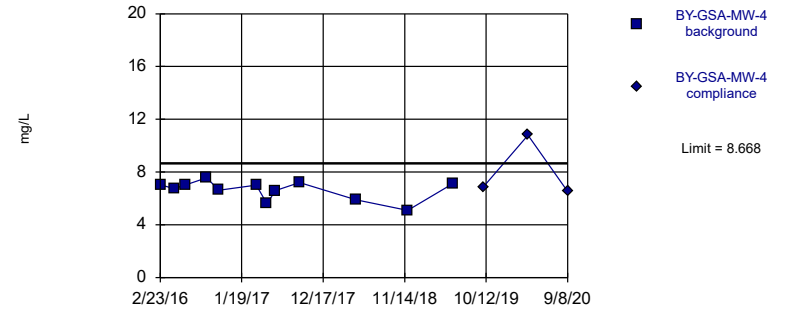


Background Data Summary: Mean=7.456, Std. Dev.=0.6976, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9647, critical = 0.805. Kappa = 2.8 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Sulfate Analysis Run 12/8/2020 4:55 PM View: Appendix III - Intrawell
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=6.626, Std. Dev.=0.7293, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8904, critical = 0.805. Kappa = 2.8 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Sulfate Analysis Run 12/8/2020 4:55 PM View: Appendix III - Intrawell
Plant Barry Client: Southern Company Data: Barry Ash Pond

Prediction Limit

Constituent: pH (pH) Analysis Run 12/8/2020 4:57 PM View: Appendix III - Intravel

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-1
3/2/2016	5.78	
4/19/2016	5.8	
6/8/2016	5.83	
8/31/2016	5.85	
10/19/2016	5.87	
1/31/2017	5.83	
3/21/2017	5.83	
5/2/2017	5.73	
6/6/2017	5.83	
9/13/2017	5.91	
1/24/2018	5.9	
5/1/2018	5.83	
8/28/2018	5.78	
11/28/2018	5.82	
5/29/2019	5.82	
10/1/2019		5.47
3/30/2020		5.79
9/1/2020		5.89

Prediction Limit

Constituent: pH (pH) Analysis Run 12/8/2020 4:57 PM View: Appendix III - Intrawell

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-10	BY-AP-MW-10
3/1/2016	6.33	
4/20/2016	6.31	
6/8/2016	6.34	
8/31/2016	6.35	
10/19/2016	6.35	
2/1/2017	6.27	
3/22/2017	6.29	
5/3/2017	6.23	
6/7/2017	6.27	
9/14/2017	6.27	
1/23/2018	6.32	
5/2/2018	6.36	
8/28/2018	6.31	
11/28/2018	6.32	
5/30/2019	6.23	
9/30/2019		6.11
3/31/2020		6.37
9/1/2020		6.33

Prediction Limit

Constituent: pH (pH) Analysis Run 12/8/2020 4:57 PM View: Appendix III - IntraWell

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-11	BY-AP-MW-11
3/1/2016	6.34	
4/20/2016	6.31	
6/8/2016	6.33	
8/31/2016	6.29	
10/19/2016	6.26	
2/1/2017	6.22	
3/22/2017	6.22	
5/3/2017	6.15	
6/7/2017	6.21	
9/13/2017	6.26	
1/23/2018	6.28	
5/2/2018	6.33	
8/29/2018	6.3	
11/28/2018	6.28	
5/29/2019	6.24	
9/30/2019		5.85
3/31/2020		6.26
9/1/2020		5.87

Prediction Limit

Constituent: pH (pH) Analysis Run 12/8/2020 4:57 PM View: Appendix III - IntraWell

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-12	BY-AP-MW-12
3/2/2016	6.16	
4/20/2016	6.17	
6/8/2016	6.25	
8/31/2016	6.23	
10/19/2016	6.2	
2/1/2017	6.08	
3/22/2017	6.12	
5/3/2017	6.12	
6/7/2017	6.13	
9/13/2017	6.19	
1/23/2018	6.17	
5/2/2018	6.15	
8/29/2018	6.19	
11/28/2018	6.11	
5/29/2019	6.13	
10/1/2019		6
3/31/2020		6.21
9/1/2020		6.19

Prediction Limit

Constituent: pH (pH) Analysis Run 12/8/2020 4:57 PM View: Appendix III - IntraWell

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-13	BY-AP-MW-13
3/2/2016	6.1	
4/20/2016	6.14	
6/8/2016	6.11	
8/31/2016	6.1	
10/19/2016	6.1	
1/31/2017	6.07	
3/22/2017	6.07	
5/3/2017	6.1	
6/7/2017	6.07	
9/13/2017	6.12	
1/22/2018	6.12	
5/2/2018	6.13	
8/29/2018	6.1	
11/28/2018	6.04	
5/29/2019	6.01	
10/1/2019		6.02
3/31/2020		5.98
9/1/2020		5.82

Prediction Limit

Constituent: pH (pH) Analysis Run 12/8/2020 4:57 PM View: Appendix III - IntraWell

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14	BY-AP-MW-14
3/2/2016	6.08	
4/20/2016	6.04	
6/8/2016	6.13	
8/30/2016	6.08	
10/18/2016	6.13	
1/31/2017	6.06	
3/22/2017	6.09	
5/2/2017	5.94	
6/6/2017	6.1	
9/13/2017	6.11	
1/23/2018	6.12	
5/2/2018	6.13	
8/29/2018	6.14	
11/27/2018	6.07	
5/29/2019	6.07	
10/1/2019		6.01
3/31/2020		5.76
9/2/2020		5.8

Prediction Limit

Constituent: pH (pH) Analysis Run 12/8/2020 4:57 PM View: Appendix III - IntraWell

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15	BY-AP-MW-15
3/2/2016	6.61	
4/19/2016	6.75	
6/8/2016	6.63	
8/31/2016	6.71	
10/19/2016	6.66	
1/31/2017	6.73	
3/21/2017	6.62	
5/2/2017	6.49	
6/6/2017	6.7	
9/13/2017	6.66	
1/22/2018	6.73	
5/1/2018	6.62	
8/29/2018	6.68	
11/27/2018	6.58	
5/29/2019	6.63	
10/1/2019		6.2
4/1/2020		6.72
9/2/2020		6.57

Prediction Limit

Constituent: pH (pH) Analysis Run 12/8/2020 4:57 PM View: Appendix III - Intravel

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-16	BY-AP-MW-16
3/2/2016	5.79	
4/19/2016	5.78	
6/8/2016	5.8	
8/31/2016	5.83	
10/19/2016	5.81	
1/31/2017	5.84	
3/21/2017	5.79	
5/2/2017	5.68	
6/6/2017	5.8	
9/13/2017	5.86	
1/23/2018	5.86	
5/1/2018	5.85	
8/29/2018	5.87	
11/27/2018	5.76	
5/29/2019	5.76	
10/1/2019		5.23
3/31/2020		5.75
9/2/2020		5.47

Prediction Limit

Constituent: pH (pH) Analysis Run 12/8/2020 4:57 PM View: Appendix III - Intravel

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-2	BY-AP-MW-2
3/2/2016	6.08	
4/19/2016	5.92	
6/8/2016	5.9	
8/31/2016	5.87	
10/19/2016	5.82	
1/31/2017	5.87	
3/21/2017	5.85	
5/2/2017	5.61	
6/6/2017	5.82	
9/12/2017	5.61	
1/24/2018	5.83	
5/1/2018	5.8	
8/28/2018	5.56	
11/27/2018	5.71	
5/29/2019	5.7	
10/1/2019		4.97
3/31/2020		5.71
8/31/2020		5.57

Prediction Limit

Constituent: pH (pH) Analysis Run 12/8/2020 4:57 PM View: Appendix III - IntraWell

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-3	BY-AP-MW-3
3/2/2016	5.14	
4/19/2016	5.06	
6/7/2016	5.13	
8/31/2016	5.11	
10/19/2016	5.05	
1/31/2017	5.14	
3/21/2017	5.13	
5/2/2017	4.85	
6/6/2017	5.15	
9/12/2017	4.96	
1/24/2018	5.22	
5/1/2018	5.11	
8/28/2018	4.92	
11/27/2018	5.05	
5/29/2019	5.05	
10/1/2019		4.37
3/31/2020		5.08
9/1/2020		4.24

Prediction Limit

Constituent: pH (pH) Analysis Run 12/8/2020 4:57 PM View: Appendix III - IntraWell

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-4	BY-AP-MW-4
3/1/2016	5.19	
4/19/2016	5.06	
6/7/2016	4.7	
8/30/2016	4.77	
10/19/2016	4.67	
1/31/2017	4.42	
3/21/2017	4.45	
5/2/2017	4.46	
6/6/2017	4.89	
9/12/2017	4.71	
1/24/2018	5.03	
5/1/2018	4.44	
8/28/2018	4.85	
11/27/2018	4.78	
5/29/2019	4.65	
10/1/2019		4.28
3/31/2020		4.69
9/1/2020		4.23

Prediction Limit

Constituent: pH (pH) Analysis Run 12/8/2020 4:57 PM View: Appendix III - IntraWell

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-5	BY-AP-MW-5
3/1/2016	5.99	
4/20/2016	5.96	
6/7/2016	6.03	
8/30/2016	6	
10/18/2016	5.99	
1/31/2017	5.96	
3/22/2017	6.01	
5/3/2017	5.99	
6/7/2017	6.01	
9/14/2017	6	
1/24/2018	5.98	
5/2/2018	5.99	
8/29/2018	6.03	
11/27/2018	6.01	
5/29/2019	5.93	
10/1/2019		5.47
3/31/2020		6.01
9/1/2020		5.93

Prediction Limit

Constituent: pH (pH) Analysis Run 12/8/2020 4:57 PM View: Appendix III - IntraWell

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-6	BY-AP-MW-6
3/1/2016	5.59	
4/19/2016	5.55	
6/7/2016	5.43	
8/30/2016	5.39	
10/19/2016	5.31	
1/31/2017	5.26	
3/22/2017	5.32	
5/3/2017	5.35	
6/7/2017	5.32	
9/14/2017	5.29	
1/24/2018	5.32	
5/2/2018	5.33	
8/29/2018	5.41	
11/28/2018	5.46	
5/29/2019	5.31	
10/1/2019		4.7
3/31/2020		5.22
9/2/2020		5.16

Prediction Limit

Constituent: pH (pH) Analysis Run 12/8/2020 4:57 PM View: Appendix III - IntraWell

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7	BY-AP-MW-7
3/1/2016	6.36	
4/20/2016	6.31	
6/7/2016	6.3	
8/31/2016	6.31	
10/19/2016	6.23	
1/31/2017	6.26	
3/22/2017	6.32	
5/3/2017	6.29	
6/7/2017	6.27	
9/14/2017	6.25	
1/24/2018	6.35	
5/2/2018	6.29	
11/28/2018	6.33	
5/29/2019	6.18	
9/30/2019		6.36
3/30/2020		6.32
9/2/2020		6.25

Prediction Limit

Constituent: pH (pH) Analysis Run 12/8/2020 4:57 PM View: Appendix III - IntraWell

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-8	BY-AP-MW-8
3/1/2016	6.21	
4/20/2016	6.22	
6/7/2016	6.26	
8/30/2016	6.21	
10/18/2016	6.21	
1/31/2017	6.17	
3/22/2017	6.22	
5/3/2017	6.22	
6/7/2017	6.21	
9/14/2017	6.18	
1/24/2018	6.16	
5/2/2018	6.17	
8/29/2018	6.21	
11/27/2018	6.18	
5/29/2019	6.11	
9/30/2019		6.19
3/30/2020		6.2
9/2/2020		5.89

Prediction Limit

Constituent: pH (pH) Analysis Run 12/8/2020 4:57 PM View: Appendix III - IntraWell

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-9	BY-AP-MW-9
3/1/2016	6.26	
4/20/2016	6.26	
6/8/2016	6.25	
8/31/2016	6.29	
10/19/2016	6.22	
2/1/2017	6.24	
3/22/2017	6.28	
5/3/2017	6.17	
6/7/2017	6.24	
9/14/2017	6.24	
1/23/2018	6.3	
5/2/2018	6.31	
8/28/2018	6.28	
11/28/2018	6.32	
5/30/2019	6.14	
9/30/2019		6.07
3/31/2020		6.31
9/2/2020		5.97

Prediction Limit

Constituent: pH (pH) Analysis Run 12/8/2020 4:57 PM View: Appendix III - IntraWell

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-GSA-MW-1	BY-GSA-MW-1
2/23/2016	4.62	
4/19/2016	4.74	
6/6/2016	4.65	
8/30/2016	4.64	
10/18/2016	4.74	
1/31/2017	4.54	
3/20/2017	4.67	
5/2/2017	4.79	
6/6/2017	4.76	
9/13/2017	4.81	
1/23/2018	4.79	
5/2/2018	4.62	
11/27/2018	4.73	
5/29/2019	4.65	
10/2/2019		4.57
3/31/2020		4.64
9/9/2020		4.65

Prediction Limit

Constituent: pH (pH) Analysis Run 12/8/2020 4:57 PM View: Appendix III - IntraWell

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-GSA-MW-2	BY-GSA-MW-2
2/23/2016	4.79	
4/19/2016	4.84	
6/7/2016	4.81	
8/30/2016	4.76	
10/18/2016	4.84	
1/31/2017	4.6	
3/20/2017	4.71	
5/2/2017	4.8	
6/6/2017	4.72	
9/13/2017	4.71	
1/23/2018	4.67	
5/1/2018	4.61	
11/27/2018	4.72	
5/29/2019	4.58	
10/2/2019		4.43
3/31/2020		4.6
9/9/2020		4.67

Prediction Limit

Constituent: pH (pH) Analysis Run 12/8/2020 4:57 PM View: Appendix III - IntraWell

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-GSA-MW-3	BY-GSA-MW-3
2/23/2016	4.96	
4/19/2016	4.94	
6/7/2016	4.96	
8/30/2016	4.92	
10/18/2016	4.98	
1/31/2017	4.74	
3/20/2017	4.9	
5/2/2017	4.98	
6/6/2017	4.94	
9/13/2017	4.93	
1/23/2018	4.91	
5/1/2018	4.87	
11/27/2018	4.94	
5/29/2019	4.8	
10/2/2019		4.52
3/31/2020		4.4
9/9/2020		4.76

Prediction Limit

Constituent: pH (pH) Analysis Run 12/8/2020 4:57 PM View: Appendix III - Intrawell

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-GSA-MW-4	BY-GSA-MW-4
2/23/2016	4.74	
4/19/2016	4.86	
6/6/2016	4.88	
8/30/2016	4.91	
10/18/2016	4.95	
1/31/2017	4.71	
3/20/2017	4.83	
5/2/2017	4.93	
6/6/2017	4.9	
9/12/2017	4.82	
1/23/2018	4.85	
5/1/2018	4.8	
11/26/2018	4.88	
5/28/2019	4.73	
10/2/2019		4.67
3/31/2020		4.51
9/8/2020		4.75

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/8/2020 4:57 PM View: Appendix III - Intrawell

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-1
3/2/2016	0.31 (J)	
4/19/2016	0.335 (J)	
6/8/2016	0.556 (J)	
8/31/2016	<5	
10/19/2016	<5	
3/21/2017	<5	
5/2/2017	6	
6/6/2017	<5	
9/13/2017	4.7 (J)	
5/1/2018	<5	
8/28/2018	<5	
11/28/2018	4.1 (J)	
5/29/2019	5.75	
10/1/2019		7.82
3/30/2020		28.4
9/1/2020		23.1

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/8/2020 4:57 PM View: Appendix III - Intrawell

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-10	BY-AP-MW-10
3/1/2016	0.34 (J)	
4/20/2016	<5	
6/8/2016	0.538 (J)	
8/31/2016	<5	
10/19/2016	<5	
3/22/2017	<5	
5/3/2017	4.1 (J)	
6/7/2017	<5	
9/14/2017	<5	
5/2/2018	<5	
8/28/2018	<5	
11/28/2018	<5	
5/30/2019	3.76	
9/30/2019		2.77
3/31/2020		20.1
9/1/2020		15.6

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/8/2020 4:57 PM View: Appendix III - Intrawell

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-11	BY-AP-MW-11
3/1/2016	1.02	
4/20/2016	1.1	
6/8/2016	0.701 (J)	
8/31/2016	<5	
10/19/2016	<5	
3/22/2017	2.1 (J)	
5/3/2017	3.6 (J)	
6/7/2017	<5	
9/13/2017	<5	
5/2/2018	<5	
8/29/2018	2.3 (J)	
11/28/2018	<5	
5/29/2019	24.1	
9/30/2019		37.4
3/31/2020		57.5
9/1/2020		42.8

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/8/2020 4:57 PM View: Appendix III - Intrawell

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-12	BY-AP-MW-12
3/2/2016	<5	
4/20/2016	<5	
6/8/2016	0.511 (J)	
8/31/2016	<5	
10/19/2016	<5	
3/22/2017	<5	
5/3/2017	2.1 (J)	
6/7/2017	<5	
9/13/2017	<5	
5/2/2018	<5	
8/29/2018	<5	
11/28/2018	<50 (o)	
5/29/2019	7.04	
10/1/2019		35.3
3/31/2020		35.8
9/1/2020		32.1

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/8/2020 4:57 PM View: Appendix III - Intrawell

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-13	BY-AP-MW-13
3/2/2016	<5	
4/20/2016	<5	
6/8/2016	0.496 (J)	
8/31/2016	<5	
10/19/2016	<5	
3/22/2017	6.9	
5/3/2017	6.6	
6/7/2017	6	
9/13/2017	2.2 (J)	
5/2/2018	4.1 (J)	
8/29/2018	<5	
11/28/2018	4.9 (J)	
5/29/2019	49.5	
10/1/2019		47.7
3/31/2020		23.2
9/1/2020		14.2

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/8/2020 4:57 PM View: Appendix III - Intrawell

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14	BY-AP-MW-14
3/2/2016	<5	
4/20/2016	<5	
6/8/2016	0.514 (J)	
8/30/2016	<5	
10/18/2016	<5	
3/22/2017	<5	
5/2/2017	1.8 (J)	
6/6/2017	<5	
9/13/2017	<5	
5/2/2018	1.6 (J)	
8/29/2018	<5	
11/27/2018	<5	
5/29/2019	67.6	
10/1/2019		61.6
3/31/2020		34.7
9/2/2020		18.5

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/8/2020 4:57 PM View: Appendix III - Intrawell

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15	BY-AP-MW-15
3/2/2016	<5	
4/19/2016	<5	
6/8/2016	0.489 (J)	
8/31/2016	<5	
10/19/2016	<5	
3/21/2017	<5	
5/2/2017	<5	
6/6/2017	<5	
9/13/2017	<5	
5/1/2018	<5	
8/29/2018	6.2	
11/27/2018	<5	
5/29/2019	3.27	
10/1/2019		1.72
4/1/2020		7.5
9/2/2020		7.61

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/8/2020 4:57 PM View: Appendix III - IntraWell

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-16	BY-AP-MW-16
3/2/2016	<5	
4/19/2016	<5	
6/8/2016	0.514 (J)	
8/31/2016	<5	
10/19/2016	<5	
3/21/2017	<5	
5/2/2017	<5	
6/6/2017	<5	
9/13/2017	2.6 (J)	
5/1/2018	<5	
8/29/2018	3.9 (J)	
11/27/2018	<5	
5/29/2019	6.72	
10/1/2019		3.4
3/31/2020		17.5
9/2/2020		13.3

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/8/2020 4:57 PM View: Appendix III - Intrawell

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-2	BY-AP-MW-2
3/2/2016	3.3	
4/19/2016	2.68	
6/8/2016	1.1	
8/31/2016	<1	
10/19/2016	<1	
3/21/2017	<1	
5/2/2017	<1	
6/6/2017	<1	
9/12/2017	<1	
5/1/2018	<1	
8/28/2018	<1	
11/27/2018	<1	
5/29/2019	0.885 (J)	
10/1/2019		<1
3/31/2020		1.69
8/31/2020		0.576 (J)

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/8/2020 4:57 PM View: Appendix III - Intrawell

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-3	BY-AP-MW-3
3/2/2016	0.79 (J)	
4/19/2016	0.674 (J)	
6/7/2016	1	
8/31/2016	0.702 (J)	
10/19/2016	0.739 (J)	
3/21/2017	<5	
5/2/2017	<5	
6/6/2017	<5	
9/12/2017	<5	
5/1/2018	<5	
8/28/2018	<5	
11/27/2018	<5	
5/29/2019	0.747 (J)	
10/1/2019		0.61 (J)
3/31/2020		1.02
9/1/2020		0.705 (J)

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/8/2020 4:57 PM View: Appendix III - Intrawell

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-4	BY-AP-MW-4
3/1/2016	2.58	
4/19/2016	2.3	
6/7/2016	2.58	
8/30/2016	2.81	
10/19/2016	5.06	
3/21/2017	3.4 (J)	
5/2/2017	2.7 (J)	
6/6/2017	1.5 (J)	
9/12/2017	1.9 (J)	
5/1/2018	1.4 (J)	
8/28/2018	<5	
11/27/2018	2.3 (J)	
5/29/2019	2.92	
10/1/2019		2.09
3/31/2020		4.12
9/1/2020		1.83

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/8/2020 4:57 PM View: Appendix III - Intrawell

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-5	BY-AP-MW-5
3/1/2016	<5	
4/20/2016	<5	
6/7/2016	0.583 (J)	
8/30/2016	<5	
10/18/2016	<5	
3/22/2017	<5	
5/3/2017	<5	
6/7/2017	<5	
9/14/2017	<5	
5/2/2018	<5	
8/29/2018	1.6 (J)	
11/27/2018	2.7 (J)	
5/29/2019	5.51	
10/1/2019		7.4
3/31/2020		23.7
9/1/2020		11

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/8/2020 4:57 PM View: Appendix III - Intrawell

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-6	BY-AP-MW-6
3/1/2016	0.36 (J)	
4/19/2016	0.435 (J)	
6/7/2016	1.22	
8/30/2016	1.08	
10/19/2016	1.01	
3/22/2017	<5	
5/3/2017	1.4 (J)	
6/7/2017	1.5 (J)	
9/14/2017	1.8 (J)	
5/2/2018	<5	
8/29/2018	<5	
11/28/2018	<5	
5/29/2019	1.17	
10/1/2019		1.04
3/31/2020		1.21
9/2/2020		1.02

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/8/2020 4:57 PM View: Appendix III - Intrawell

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7	BY-AP-MW-7
3/1/2016	0.3 (J)	
4/20/2016	0.514 (J)	
6/7/2016	0.971 (J)	
8/31/2016	0.445 (J)	
10/19/2016	0.366 (J)	
3/22/2017	<5	
5/3/2017	<5	
6/7/2017	<5	
9/14/2017	<5	
5/2/2018	<5	
11/28/2018	<5	
5/29/2019	2.77	
9/30/2019		2.51
3/30/2020		4.78
9/2/2020		3.59

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/8/2020 4:57 PM View: Appendix III - Intrawell

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-8	BY-AP-MW-8
3/1/2016	<5	
4/20/2016	<5	
6/7/2016	0.504 (J)	
8/30/2016	<5	
10/18/2016	<5	
3/22/2017	<5	
5/3/2017	2.7 (J)	
6/7/2017	<5	
9/14/2017	<5	
5/2/2018	<5	
8/29/2018	<5	
11/27/2018	<5	
5/29/2019	6.01	
9/30/2019		5.29
3/30/2020		33.1
9/2/2020		15.8

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/8/2020 4:57 PM View: Appendix III - Intrawell

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-9	BY-AP-MW-9
3/1/2016	<5	
4/20/2016	<5	
6/8/2016	0.51 (J)	
8/31/2016	<5	
10/19/2016	<5	
3/22/2017	<5	
5/3/2017	2.7 (J)	
6/7/2017	<5	
9/14/2017	<5	
5/2/2018	<5	
8/28/2018	<5	
11/28/2018	1.4 (J)	
5/30/2019	5.91	
9/30/2019		3.77
3/31/2020		43.5
9/2/2020		21.9

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/8/2020 4:57 PM View: Appendix III - Intrawell

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-GSA-MW-1	BY-GSA-MW-1
2/23/2016	8.59	
4/19/2016	8.27	
6/6/2016	8.66	
8/30/2016	9.74	
10/18/2016	10.2	
3/20/2017	8.3	
5/2/2017	6.6 (D)	
6/6/2017	7.6 (D)	
9/13/2017	8.4	
5/2/2018	5.9	
11/27/2018	22	
5/29/2019	23.3	
10/2/2019		17.5
3/31/2020		24.3
9/9/2020		16.5

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/8/2020 4:57 PM View: Appendix III - Intrawell

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-GSA-MW-2	BY-GSA-MW-2
2/23/2016	7.2	
4/19/2016	7.22	
6/7/2016	7.92	
8/30/2016	8.17	
10/18/2016	7.99	
3/20/2017	6.1	
5/2/2017	5 (D)	
6/6/2017	5.3 (D)	
9/13/2017	4.9 (J)	
5/1/2018	4.2 (J)	
5/29/2019	5.94	
10/2/2019		6.04
3/31/2020		6.83
9/9/2020		6.08

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/8/2020 4:57 PM View: Appendix III - Intrawell

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-GSA-MW-3	BY-GSA-MW-3
2/23/2016	7.44	
4/19/2016	7.66	
6/7/2016	8.16	
8/30/2016	8.43	
10/18/2016	8.47	
3/20/2017	7.4	
5/2/2017	6.3 (D)	
6/6/2017	7.1 (D)	
9/13/2017	7.3	
5/1/2018	6.9	
11/27/2018	6.5	
5/29/2019	7.81	
10/2/2019		7.62
3/31/2020		7.98
9/9/2020		7.13

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/8/2020 4:57 PM View: Appendix III - IntraWell

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-GSA-MW-4	BY-GSA-MW-4
2/23/2016	7.04	
4/19/2016	6.74	
6/6/2016	7.04	
8/30/2016	7.57	
10/18/2016	6.62	
3/20/2017	7	
5/2/2017	5.6 (D)	
6/6/2017	6.6 (D)	
9/12/2017	7.2	
5/1/2018	5.9	
11/26/2018	5.1	
5/28/2019	7.1	
10/2/2019		6.88
3/31/2020		10.8
9/8/2020		6.52

FIGURE F.

Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 12/8/2020, 5:07 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	BY-AP-MW-10	0.15	76	53	Yes	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	BY-AP-MW-8	-0.1051	-70	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-10	2.598	72	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-11	-0.6568	-78	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-12	0.5938	81	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-15	0.2738	62	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-7	0.6035	93	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-8	-0.7237	-73	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-GSA-MW-2 (bg)	0.1427	61	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-GSA-MW-4 (bg)	0.1144	65	53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-10	1.909	90	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-14	1.573	62	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-15	8.091	102	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-16	1.09	79	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-GSA-MW-2 (bg)	-0.4186	-60	-53	Yes	15	0	n/a	n/a	0.01	NP
pH (pH)	BY-AP-MW-13	-0.02844	-71	-68	Yes	18	0	n/a	n/a	0.01	NP
pH (pH)	BY-AP-MW-8	-0.01843	-70	-68	Yes	18	0	n/a	n/a	0.01	NP
pH (pH)	BY-GSA-MW-2 (bg)	-0.06003	-77	-63	Yes	17	0	n/a	n/a	0.01	NP
pH (pH)	BY-GSA-MW-3 (bg)	-0.04822	-69	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-AP-MW-1	1.93	69	58	Yes	16	37.5	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-AP-MW-11	7.04	79	58	Yes	16	37.5	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-15	11.54	80	58	Yes	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-GSA-MW-1 (bg)	6.385	71	53	Yes	15	6.667	n/a	n/a	0.01	NP
TDS (mg/L)	BY-GSA-MW-2 (bg)	3.19	60	53	Yes	15	13.33	n/a	n/a	0.01	NP
TDS (mg/L)	BY-GSA-MW-4 (bg)	3.921	63	53	Yes	15	26.67	n/a	n/a	0.01	NP

Trend Tests - Prediction Limit Exceedances - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 12/8/2020, 5:07 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	BY-AP-MW-1	0.02626	13	53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	BY-AP-MW-10	0.15	76	53	Yes	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	BY-AP-MW-16	0.06088	50	53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	BY-AP-MW-8	-0.1051	-70	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	BY-AP-MW-9	0.06586	45	53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	BY-GSA-MW-1 (bg)	0	17	53	No	15	53.33	n/a	n/a	0.01	NP
Boron (mg/L)	BY-GSA-MW-2 (bg)	0	21	48	No	14	85.71	n/a	n/a	0.01	NP
Boron (mg/L)	BY-GSA-MW-3 (bg)	0	0	53	No	15	100	n/a	n/a	0.01	NP
Boron (mg/L)	BY-GSA-MW-4 (bg)	0	19	53	No	15	86.67	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-1	-0.4318	-10	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-10	2.598	72	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-11	-0.6568	-78	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-12	0.5938	81	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-13	0.2354	26	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-14	-0.1528	-12	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-15	0.2738	62	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-16	-0.03773	-7	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-2	-0.05823	-38	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-5	-0.101	-19	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-7	0.6035	93	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-8	-0.7237	-73	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-AP-MW-9	0.07965	8	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-GSA-MW-1 (bg)	0.1131	30	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-GSA-MW-2 (bg)	0.1427	61	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-GSA-MW-3 (bg)	0.06599	44	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BY-GSA-MW-4 (bg)	0.1144	65	53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-1	1.086	34	48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-10	1.909	90	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-11	0.7006	29	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-12	0.4983	58	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-13	0	0	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-14	1.573	62	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-15	8.091	102	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-16	1.09	79	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-5	0	5	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-7	0.4011	39	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-8	0.5549	29	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-AP-MW-9	-0.6738	-22	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-GSA-MW-1 (bg)	0.062	12	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-GSA-MW-2 (bg)	-0.4186	-60	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-GSA-MW-3 (bg)	-0.0446	-27	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BY-GSA-MW-4 (bg)	-0.05577	-27	-53	No	15	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	BY-AP-MW-1	0.0105	48	58	No	16	18.75	n/a	n/a	0.01	NP
Fluoride (mg/L)	BY-AP-MW-15	-0.001465	-18	-58	No	16	6.25	n/a	n/a	0.01	NP
Fluoride (mg/L)	BY-AP-MW-7	0.005247	45	58	No	16	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	BY-GSA-MW-1 (bg)	0.009724	46	58	No	16	37.5	n/a	n/a	0.01	NP
Fluoride (mg/L)	BY-GSA-MW-2 (bg)	0.01509	55	58	No	16	37.5	n/a	n/a	0.01	NP
Fluoride (mg/L)	BY-GSA-MW-3 (bg)	0.01192	57	58	No	16	56.25	n/a	n/a	0.01	NP
Fluoride (mg/L)	BY-GSA-MW-4 (bg)	0.009702	57	58	No	16	56.25	n/a	n/a	0.01	NP
pH (pH)	BY-AP-MW-11	-0.03028	-55	-68	No	18	0	n/a	n/a	0.01	NP
pH (pH)	BY-AP-MW-13	-0.02844	-71	-68	Yes	18	0	n/a	n/a	0.01	NP
pH (pH)	BY-AP-MW-14	-0.0158	-26	-68	No	18	0	n/a	n/a	0.01	NP
pH (pH)	BY-AP-MW-16	-0.0132	-25	-68	No	18	0	n/a	n/a	0.01	NP
pH (pH)	BY-AP-MW-3	-0.03874	-53	-68	No	18	0	n/a	n/a	0.01	NP
pH (pH)	BY-AP-MW-8	-0.01843	-70	-68	Yes	18	0	n/a	n/a	0.01	NP

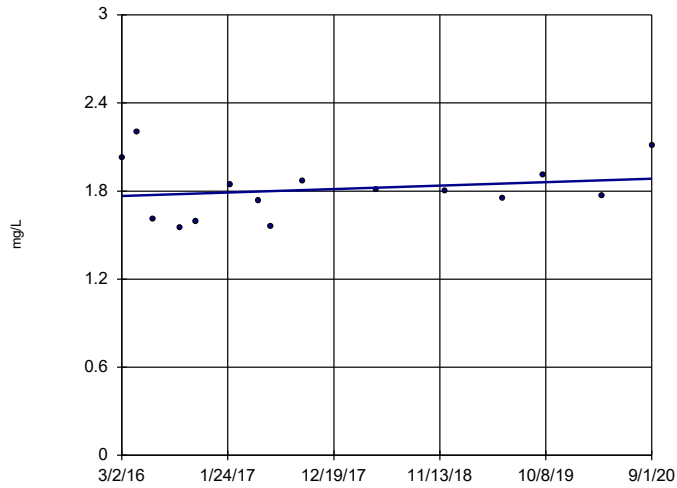
Trend Tests - Prediction Limit Exceedances - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 12/8/2020, 5:07 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
pH (pH)	BY-AP-MW-9	-0.007464	-9	-68	No	18	0	n/a	n/a	0.01	NP
pH (pH)	BY-GSA-MW-1 (bg)	0	-3	-63	No	17	0	n/a	n/a	0.01	NP
pH (pH)	BY-GSA-MW-2 (bg)	-0.06003	-77	-63	Yes	17	0	n/a	n/a	0.01	NP
pH (pH)	BY-GSA-MW-3 (bg)	-0.04822	-69	-63	Yes	17	0	n/a	n/a	0.01	NP
pH (pH)	BY-GSA-MW-4 (bg)	-0.03765	-47	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-AP-MW-1	1.93	69	58	Yes	16	37.5	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-AP-MW-10	0	30	58	No	16	56.25	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-AP-MW-11	7.04	79	58	Yes	16	37.5	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-AP-MW-12	1.195	51	53	No	15	60	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-AP-MW-15	0	23	58	No	16	62.5	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-AP-MW-16	0	26	58	No	16	56.25	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-AP-MW-5	0.1906	42	58	No	16	56.25	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-AP-MW-8	0.1336	57	58	No	16	62.5	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-AP-MW-9	0	28	58	No	16	56.25	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-GSA-MW-1 (bg)	2.511	33	53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-GSA-MW-2 (bg)	-0.3861	-27	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-GSA-MW-3 (bg)	-0.1206	-17	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BY-GSA-MW-4 (bg)	-0.0473	-12	-53	No	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-1	-6.195	-40	-58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-10	7.891	56	58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-11	2.62	17	58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-12	-3.211	-19	-58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-13	-3.901	-23	-58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-14	1.66	10	58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-15	11.54	80	58	Yes	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-16	2.459	21	58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-5	-4.403	-42	-58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-7	0.7866	15	53	No	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-8	-3.764	-35	-58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-9	-2.603	-21	-58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-GSA-MW-1 (bg)	6.385	71	53	Yes	15	6.667	n/a	n/a	0.01	NP
TDS (mg/L)	BY-GSA-MW-2 (bg)	3.19	60	53	Yes	15	13.33	n/a	n/a	0.01	NP
TDS (mg/L)	BY-GSA-MW-3 (bg)	1.858	35	53	No	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-GSA-MW-4 (bg)	3.921	63	53	Yes	15	26.67	n/a	n/a	0.01	NP

Sen's Slope Estimator

BY-AP-MW-1

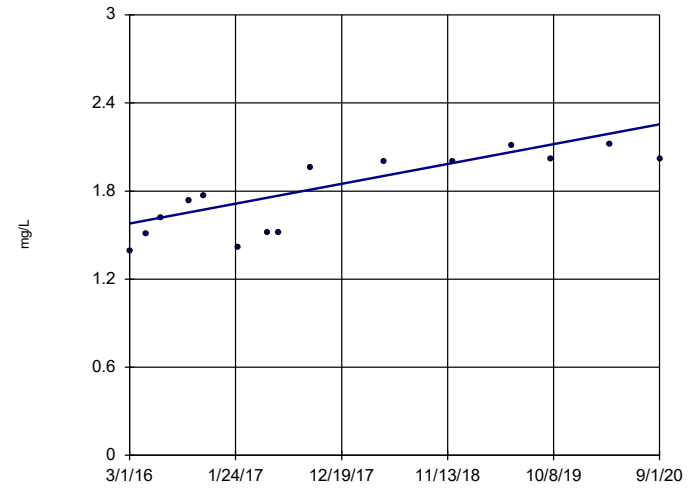


n = 15
 Slope = 0.02626
 units per year.
 Mann-Kendall
 statistic = 13
 critical = 53
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 12/8/2020 5:05 PM View: Appendix III - Trend Tests
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-10

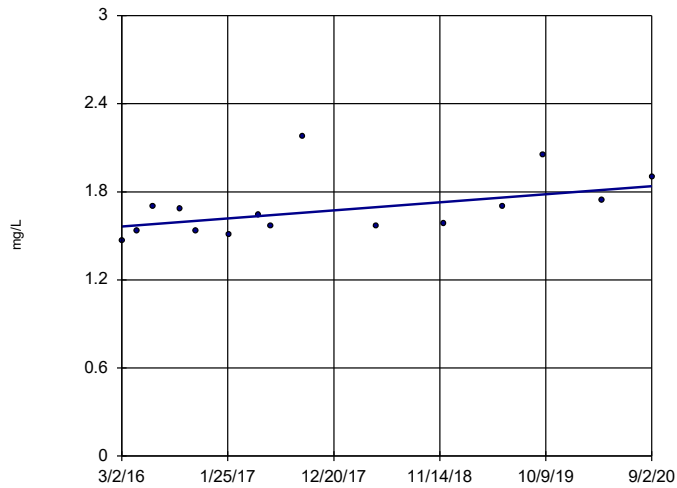


n = 15
 Slope = 0.15
 units per year.
 Mann-Kendall
 statistic = 76
 critical = 53
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 12/8/2020 5:05 PM View: Appendix III - Trend Tests
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-16

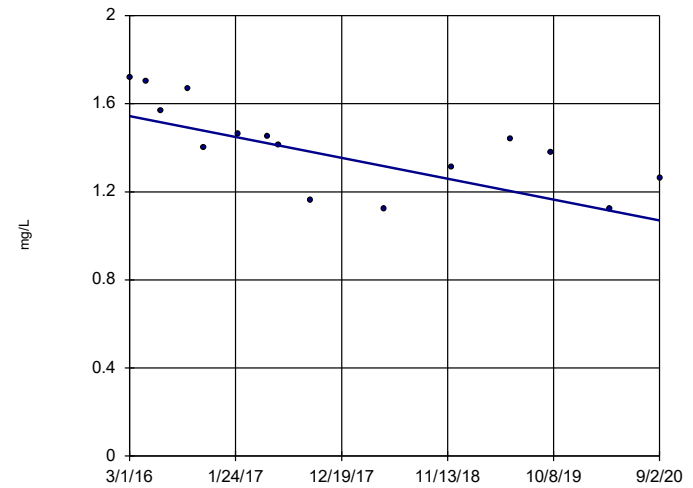


n = 15
 Slope = 0.06088
 units per year.
 Mann-Kendall
 statistic = 50
 critical = 53
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 12/8/2020 5:05 PM View: Appendix III - Trend Tests
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-8

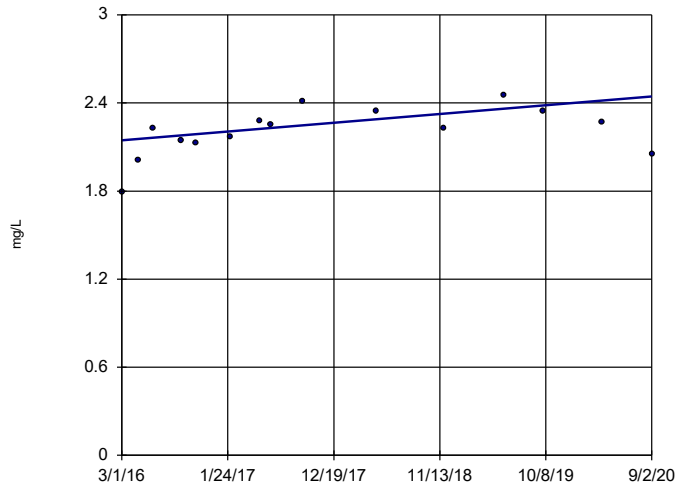


n = 15
 Slope = -0.1051
 units per year.
 Mann-Kendall
 statistic = -70
 critical = -53
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 12/8/2020 5:05 PM View: Appendix III - Trend Tests
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-9



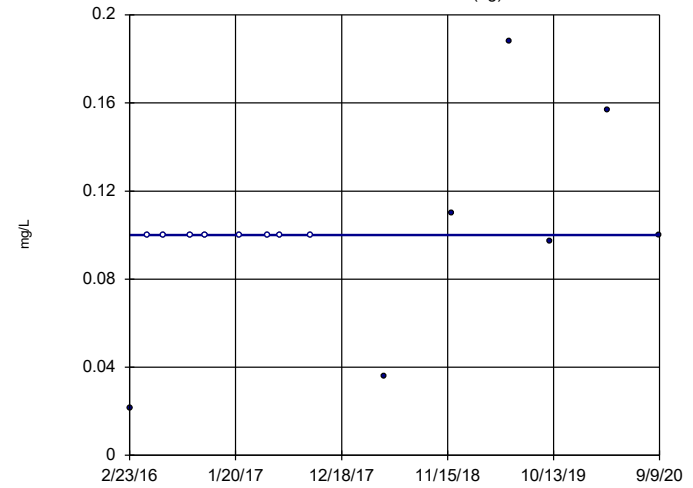
n = 15
 Slope = 0.06586 units per year.
 Mann-Kendall statistic = 45
 critical = 53
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 12/8/2020 5:05 PM View: Appendix III - Trend Tests
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Hollow symbols indicate censored values.

Sen's Slope Estimator

BY-GSA-MW-1 (bg)



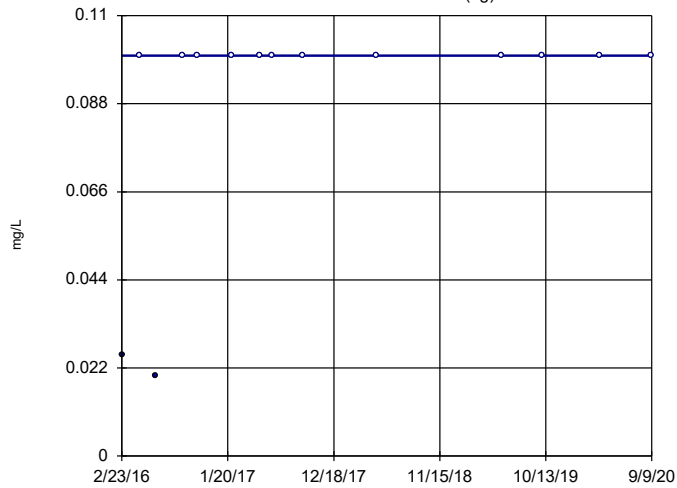
n = 15
 Slope = 0 units per year.
 Mann-Kendall statistic = 17
 critical = 53
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 12/8/2020 5:05 PM View: Appendix III - Trend Tests
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Hollow symbols indicate censored values.

Sen's Slope Estimator

BY-GSA-MW-2 (bg)



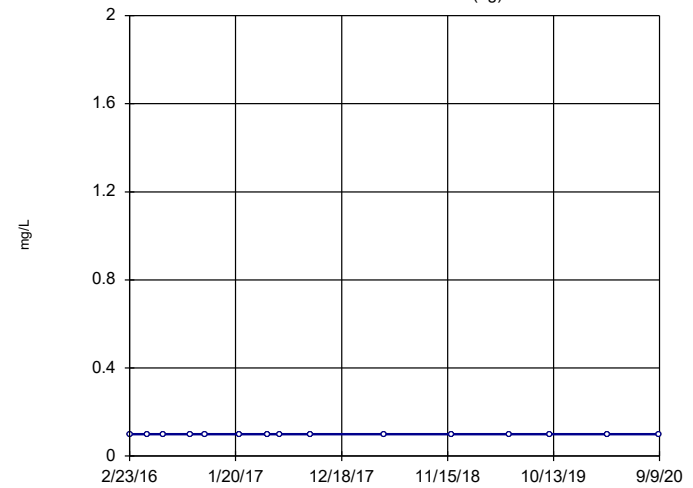
n = 14
 Slope = 0 units per year.
 Mann-Kendall statistic = 21
 critical = 48
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 12/8/2020 5:05 PM View: Appendix III - Trend Tests
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Hollow symbols indicate censored values.

Sen's Slope Estimator

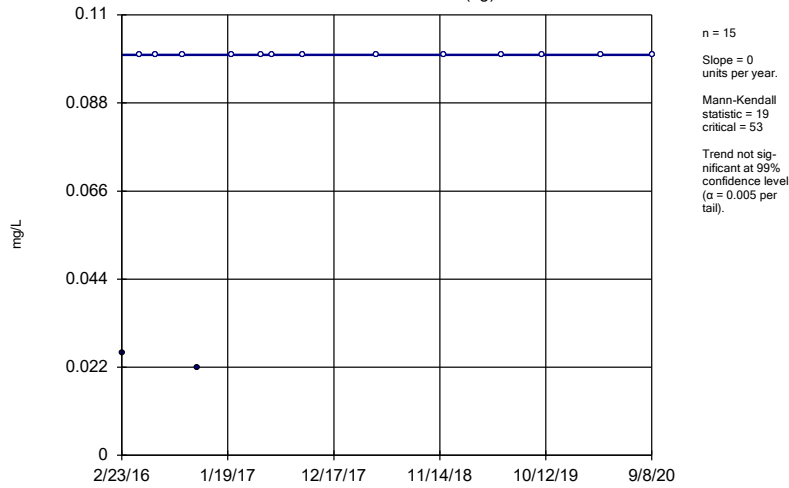
BY-GSA-MW-3 (bg)



n = 15
 Slope = 0 units per year.
 Mann-Kendall statistic = 0
 critical = 53
 Trend not significant at 99% confidence level (α = 0.005 per tail).

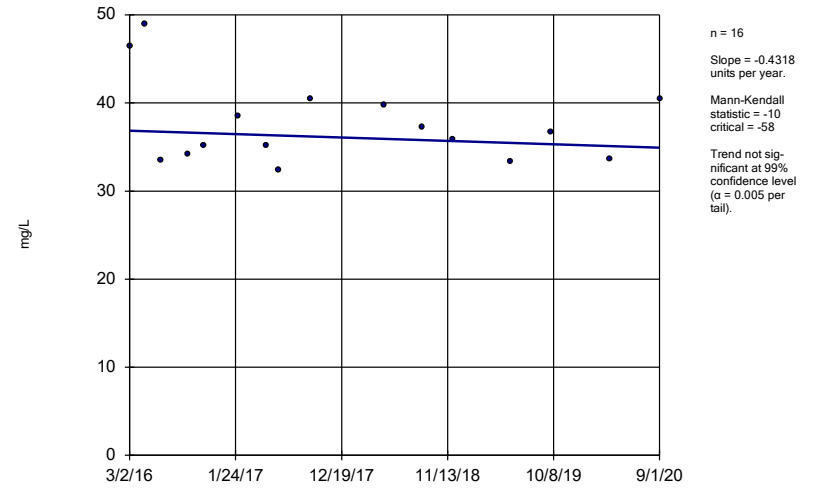
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator
 BY-GSA-MW-4 (bg)



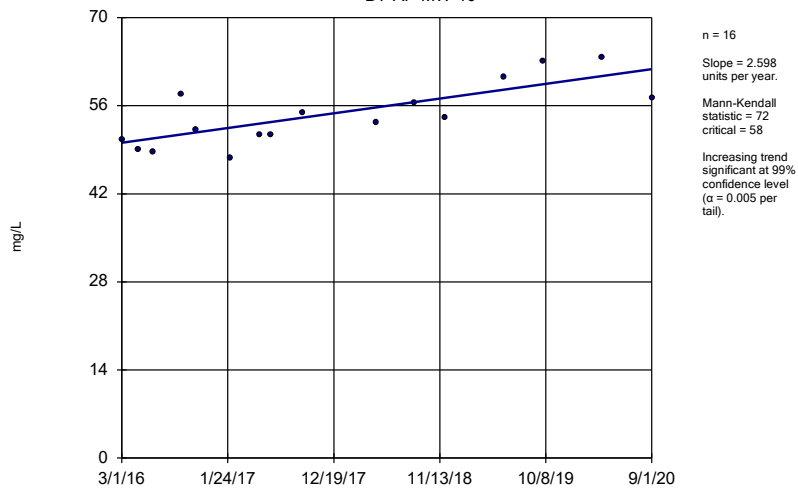
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator
 BY-AP-MW-1



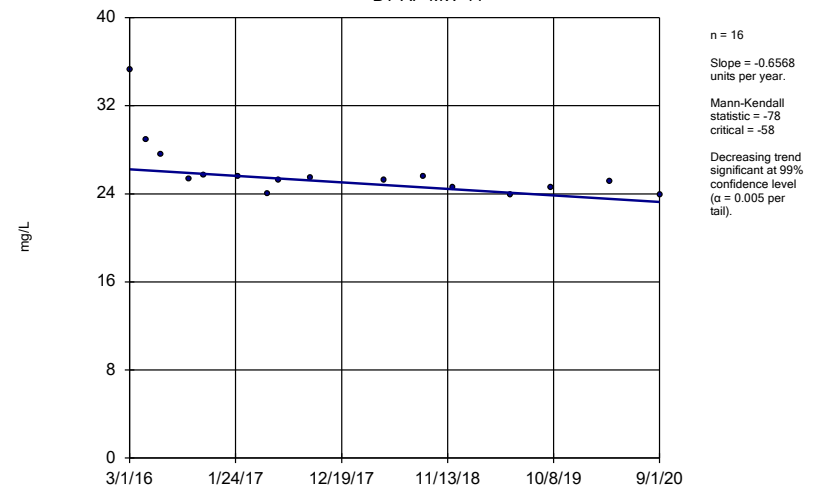
Constituent: Calcium Analysis Run 12/8/2020 5:05 PM View: Appendix III - Trend Tests
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator
 BY-AP-MW-10



Constituent: Calcium Analysis Run 12/8/2020 5:05 PM View: Appendix III - Trend Tests
 Plant Barry Client: Southern Company Data: Barry Ash Pond

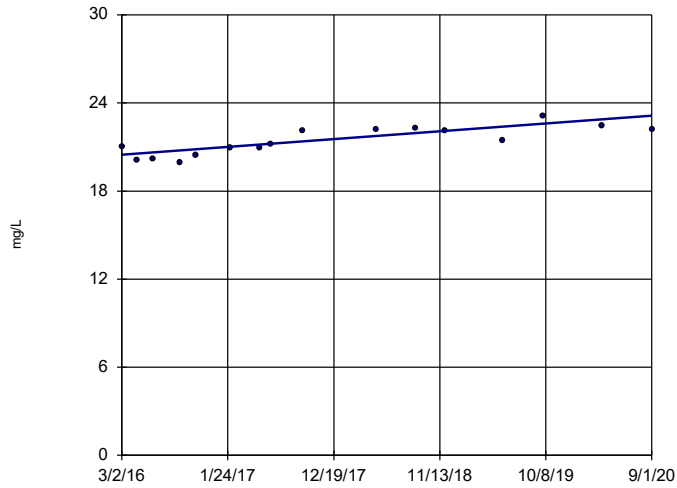
Sen's Slope Estimator
 BY-AP-MW-11



Constituent: Calcium Analysis Run 12/8/2020 5:05 PM View: Appendix III - Trend Tests
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-12

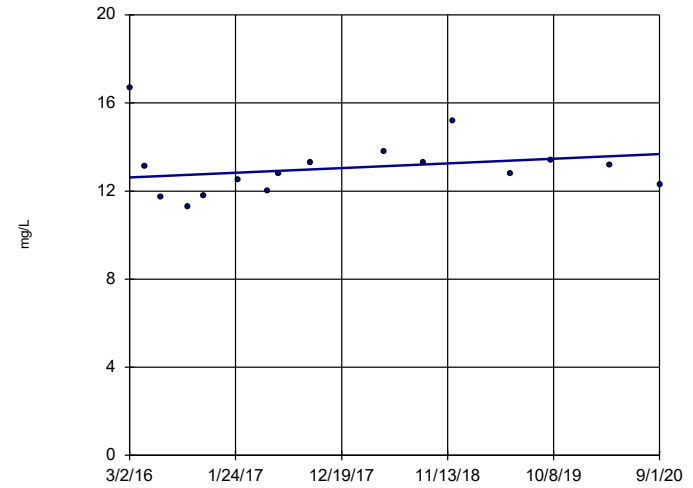


n = 16
 Slope = 0.5938
 units per year.
 Mann-Kendall
 statistic = 81
 critical = 58
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 12/8/2020 5:05 PM View: Appendix III - Trend Tests
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-13

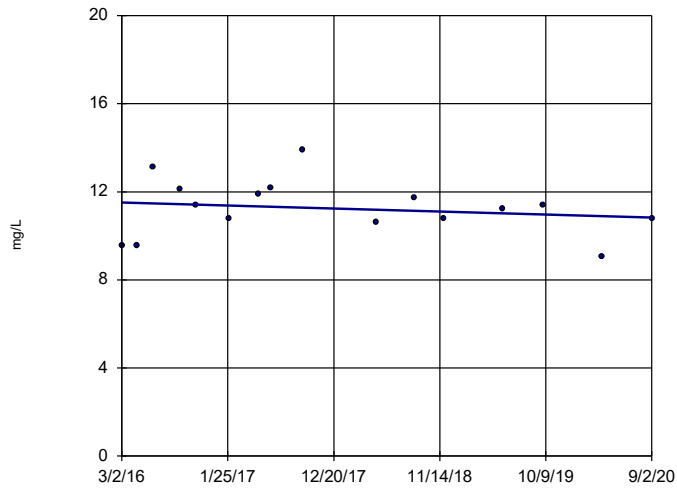


n = 16
 Slope = 0.2354
 units per year.
 Mann-Kendall
 statistic = 26
 critical = 58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 12/8/2020 5:05 PM View: Appendix III - Trend Tests
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-14

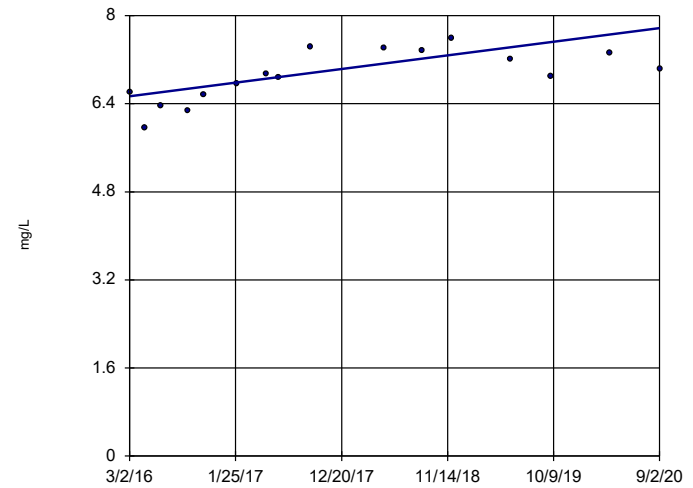


n = 16
 Slope = -0.1528
 units per year.
 Mann-Kendall
 statistic = -12
 critical = -58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 12/8/2020 5:05 PM View: Appendix III - Trend Tests
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

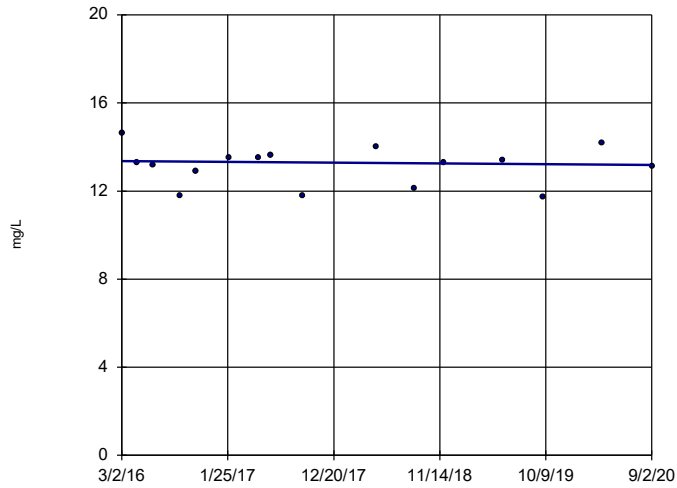
BY-AP-MW-15



n = 16
 Slope = 0.2738
 units per year.
 Mann-Kendall
 statistic = 62
 critical = 58
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

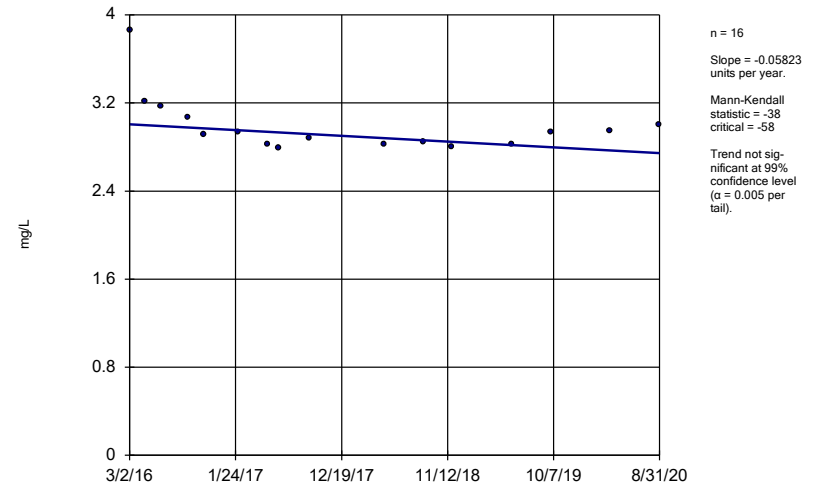
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 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator BY-AP-MW-16



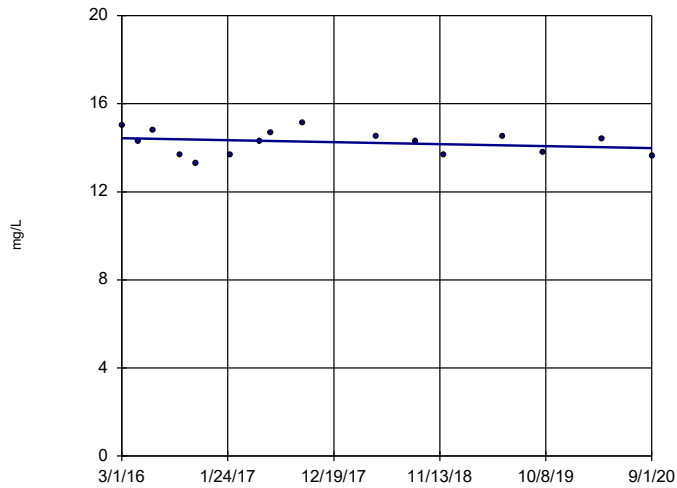
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator BY-AP-MW-2



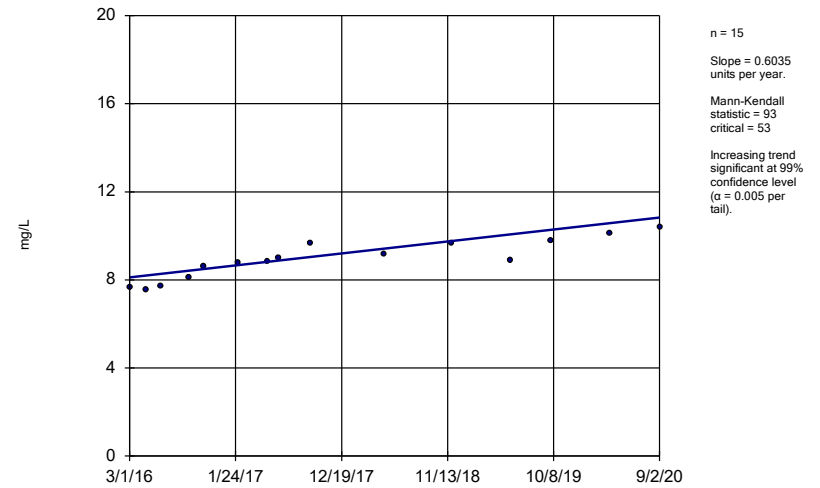
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator BY-AP-MW-5



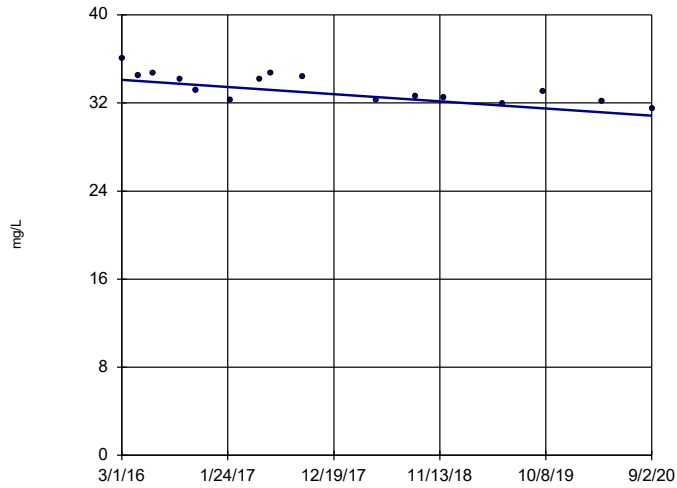
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator BY-AP-MW-7



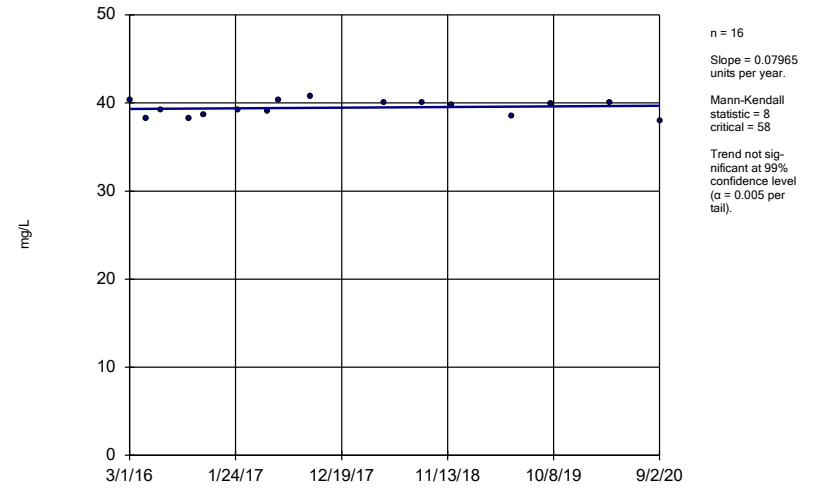
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator
BY-AP-MW-8



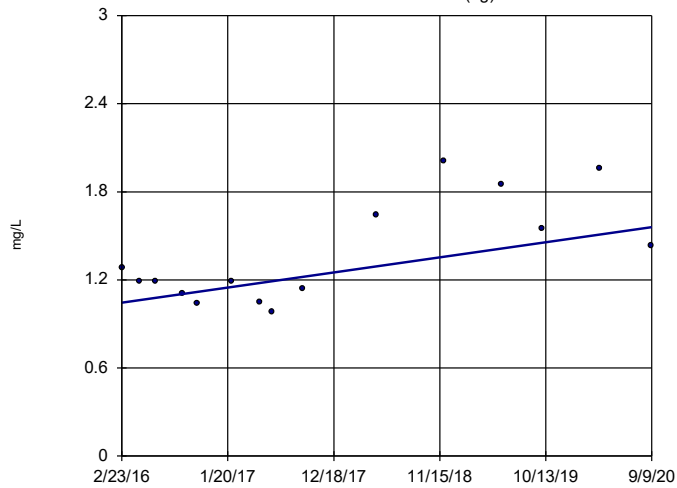
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Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator
BY-AP-MW-9



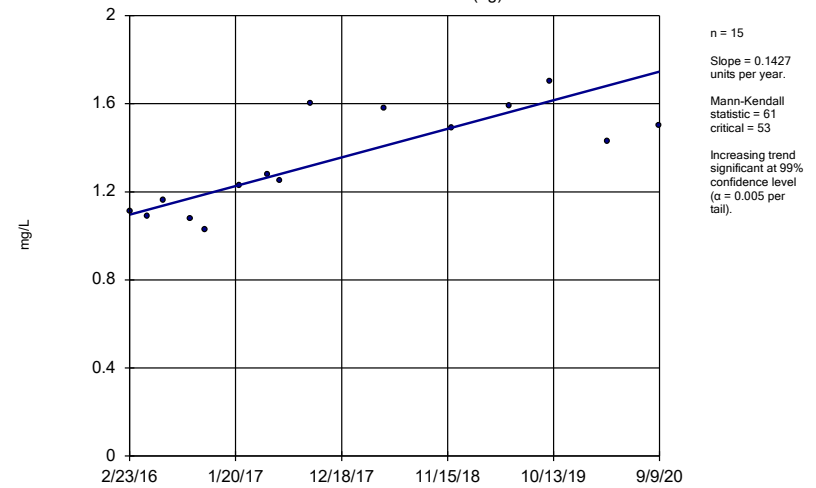
Constituent: Calcium Analysis Run 12/8/2020 5:05 PM View: Appendix III - Trend Tests
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator
BY-GSA-MW-1 (bg)



Constituent: Calcium Analysis Run 12/8/2020 5:05 PM View: Appendix III - Trend Tests
Plant Barry Client: Southern Company Data: Barry Ash Pond

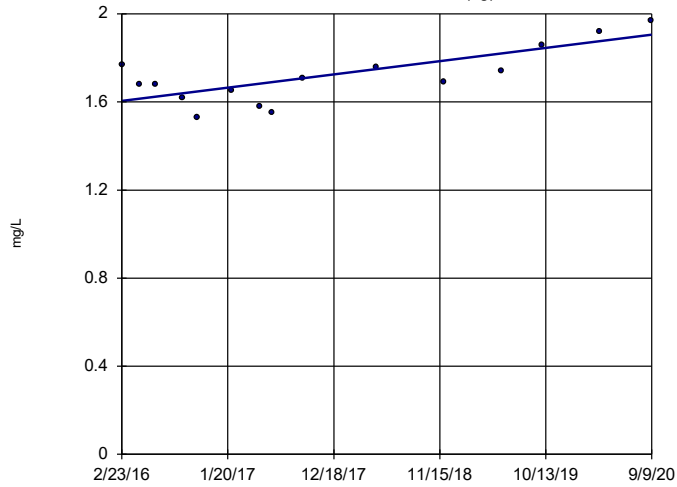
Sen's Slope Estimator
BY-GSA-MW-2 (bg)



Constituent: Calcium Analysis Run 12/8/2020 5:05 PM View: Appendix III - Trend Tests
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-GSA-MW-3 (bg)

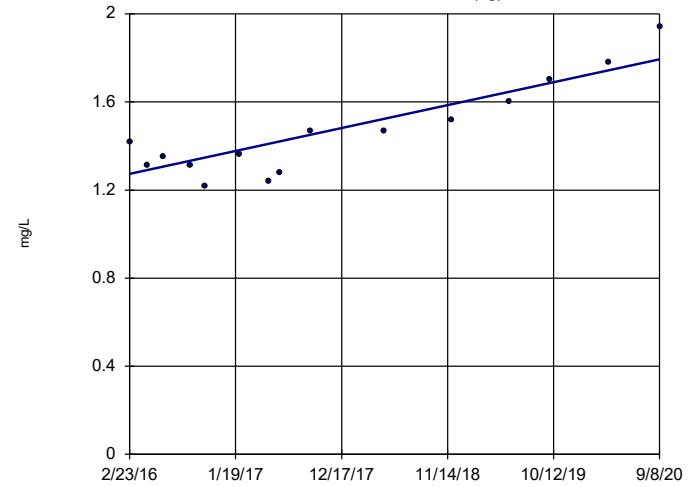


n = 15
 Slope = 0.06599
 units per year.
 Mann-Kendall
 statistic = 44
 critical = 53
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 12/8/2020 5:05 PM View: Appendix III - Trend Tests
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-GSA-MW-4 (bg)

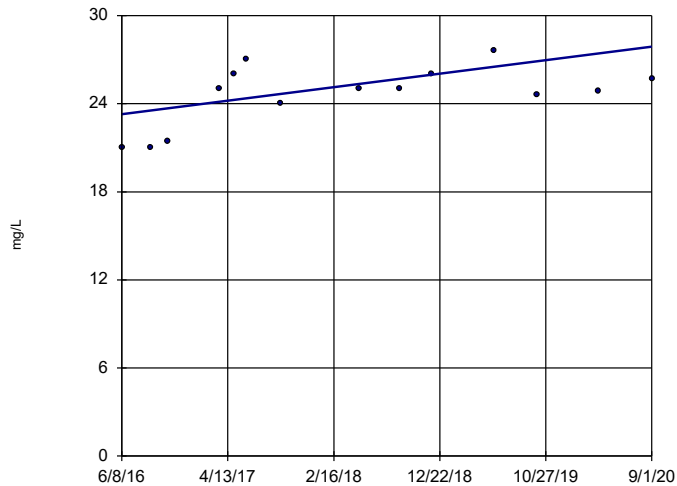


n = 15
 Slope = 0.1144
 units per year.
 Mann-Kendall
 statistic = 65
 critical = 53
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 12/8/2020 5:05 PM View: Appendix III - Trend Tests
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-1

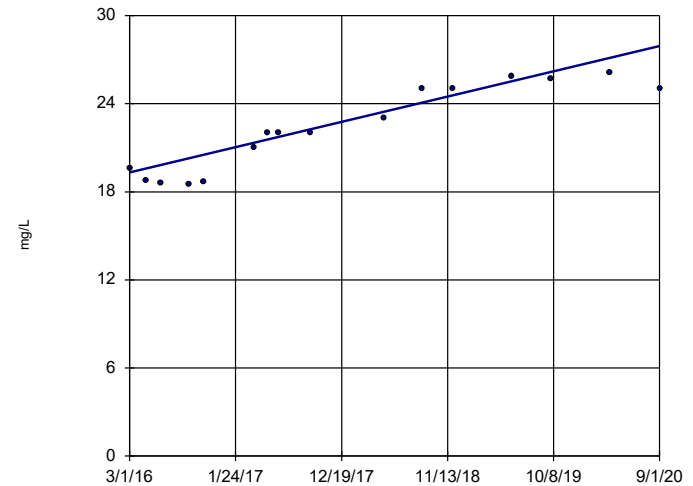


n = 14
 Slope = 1.086
 units per year.
 Mann-Kendall
 statistic = 34
 critical = 48
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 12/8/2020 5:05 PM View: Appendix III - Trend Tests
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-10

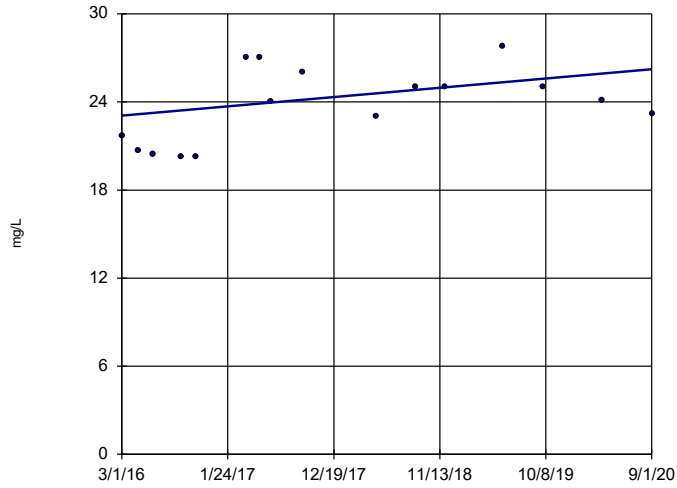


n = 16
 Slope = 1.909
 units per year.
 Mann-Kendall
 statistic = 90
 critical = 58
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 12/8/2020 5:05 PM View: Appendix III - Trend Tests
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-11

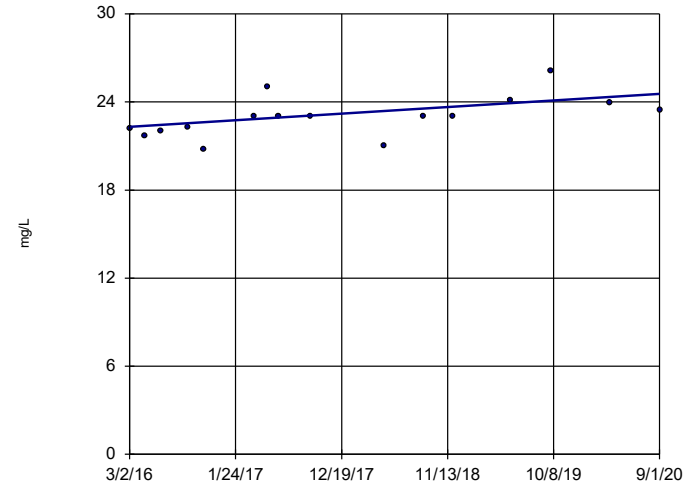


n = 16
 Slope = 0.7006
 units per year.
 Mann-Kendall
 statistic = 29
 critical = 58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 12/8/2020 5:05 PM View: Appendix III - Trend Tests
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-12

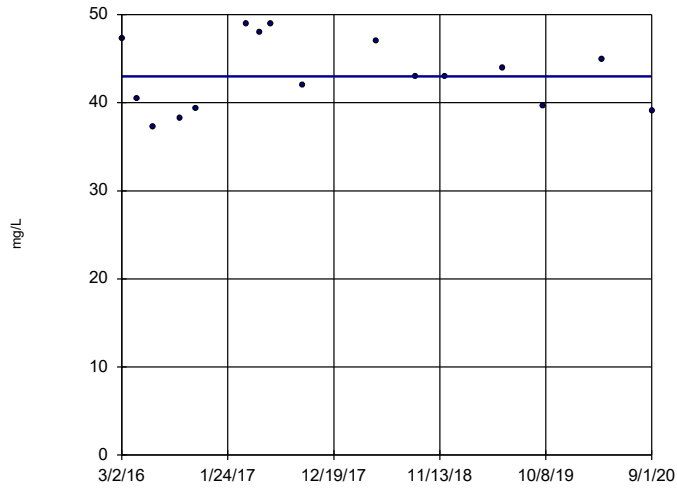


n = 16
 Slope = 0.4983
 units per year.
 Mann-Kendall
 statistic = 58
 critical = 58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 12/8/2020 5:05 PM View: Appendix III - Trend Tests
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-13

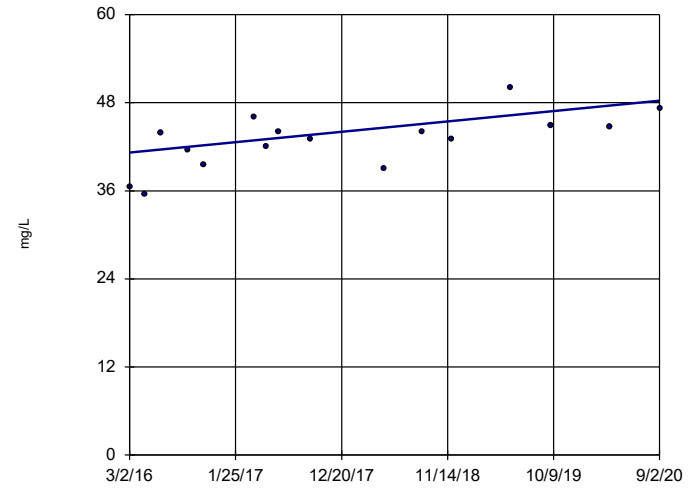


n = 16
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 0
 critical = 58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 12/8/2020 5:05 PM View: Appendix III - Trend Tests
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

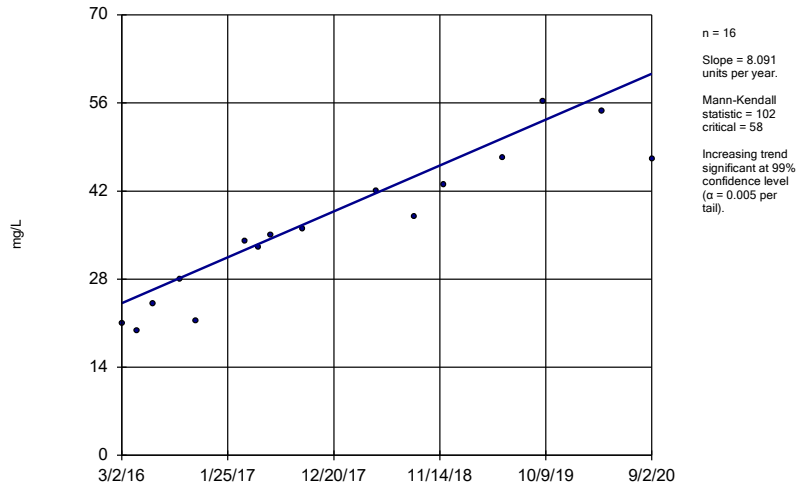
BY-AP-MW-14



n = 16
 Slope = 1.573
 units per year.
 Mann-Kendall
 statistic = 62
 critical = 58
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

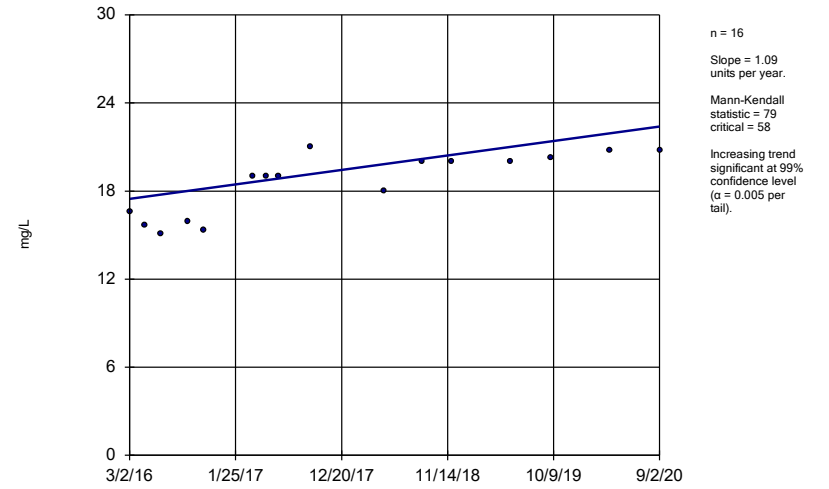
Constituent: Chloride Analysis Run 12/8/2020 5:05 PM View: Appendix III - Trend Tests
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator BY-AP-MW-15



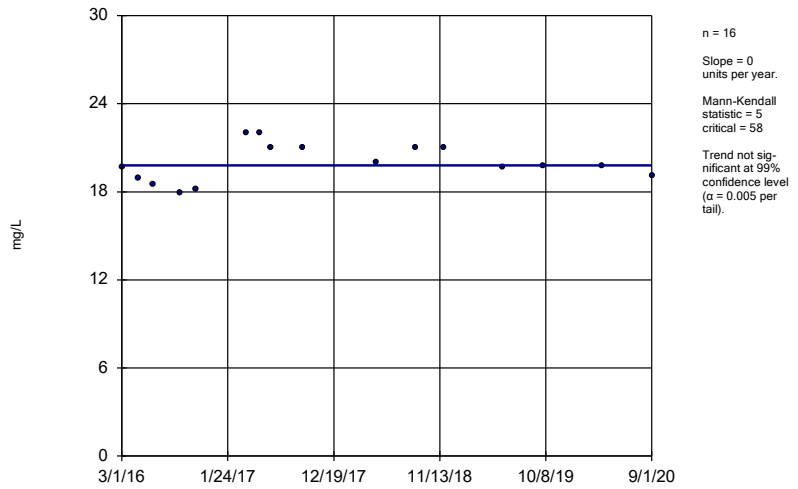
Constituent: Chloride Analysis Run 12/8/2020 5:05 PM View: Appendix III - Trend Tests
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator BY-AP-MW-16



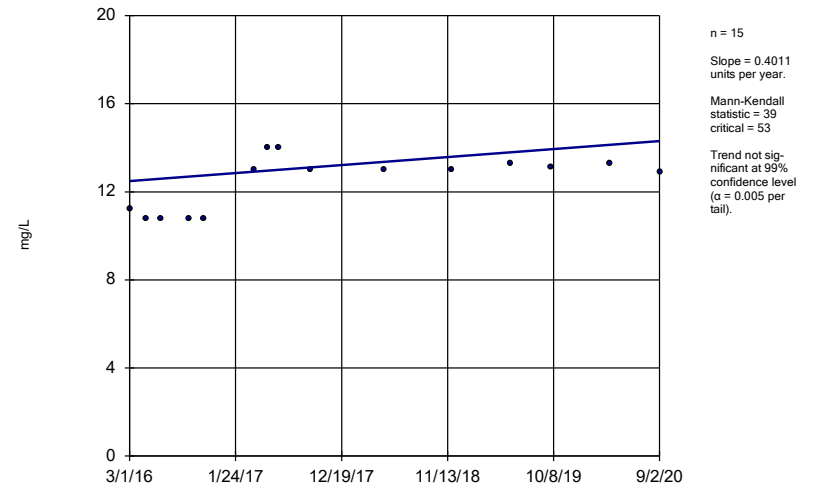
Constituent: Chloride Analysis Run 12/8/2020 5:05 PM View: Appendix III - Trend Tests
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator BY-AP-MW-5



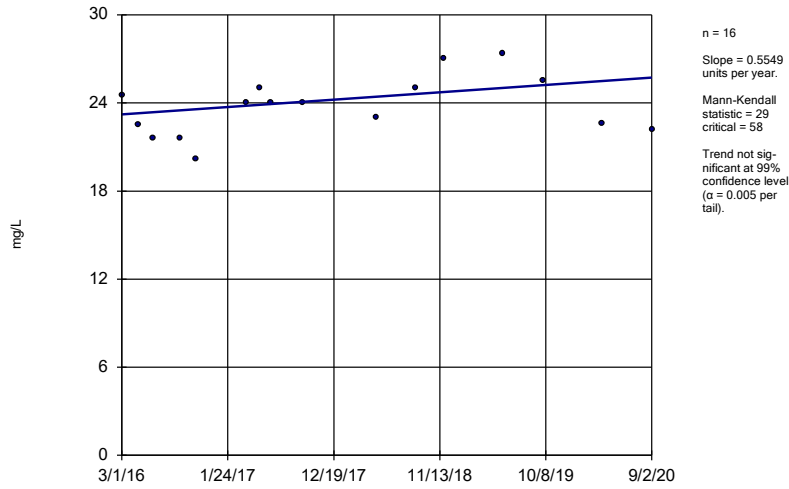
Constituent: Chloride Analysis Run 12/8/2020 5:05 PM View: Appendix III - Trend Tests
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator BY-AP-MW-7



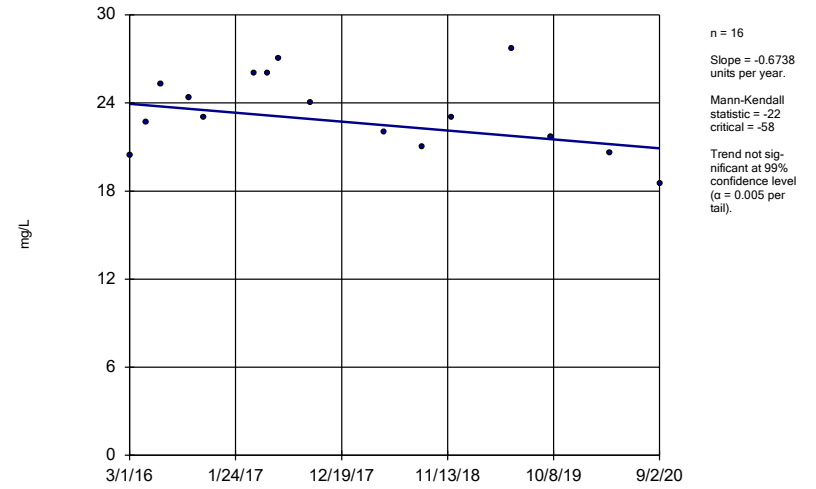
Constituent: Chloride Analysis Run 12/8/2020 5:05 PM View: Appendix III - Trend Tests
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator
BY-AP-MW-8



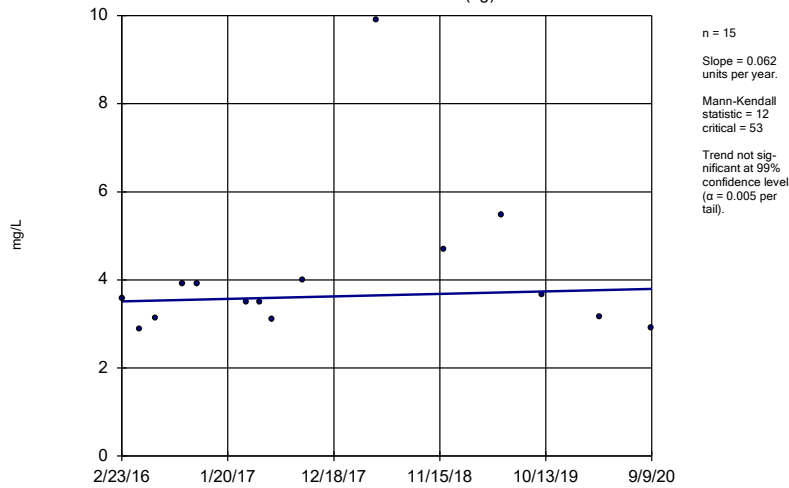
Constituent: Chloride Analysis Run 12/8/2020 5:05 PM View: Appendix III - Trend Tests
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator
BY-AP-MW-9



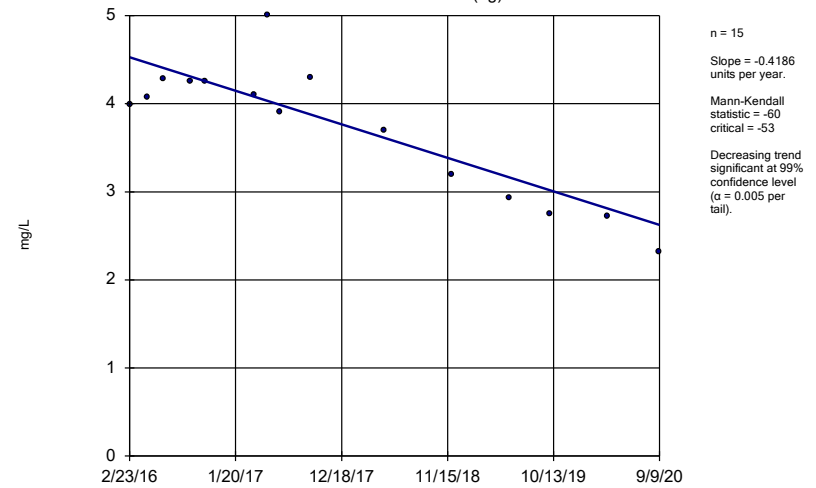
Constituent: Chloride Analysis Run 12/8/2020 5:05 PM View: Appendix III - Trend Tests
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator
BY-GSA-MW-1 (bg)



Constituent: Chloride Analysis Run 12/8/2020 5:05 PM View: Appendix III - Trend Tests
Plant Barry Client: Southern Company Data: Barry Ash Pond

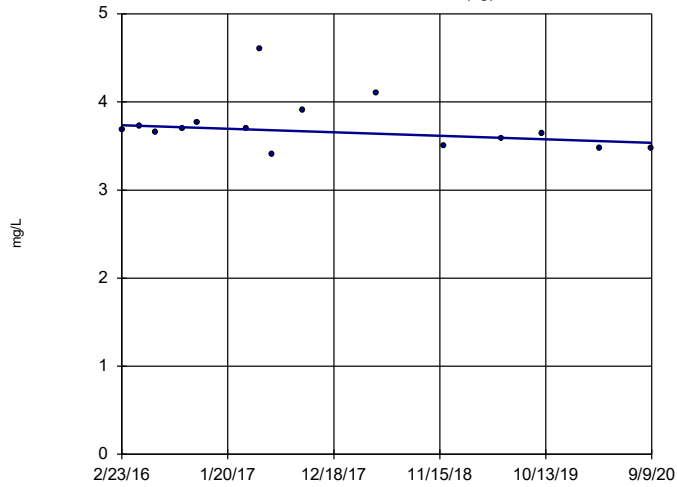
Sen's Slope Estimator
BY-GSA-MW-2 (bg)



Constituent: Chloride Analysis Run 12/8/2020 5:05 PM View: Appendix III - Trend Tests
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-GSA-MW-3 (bg)

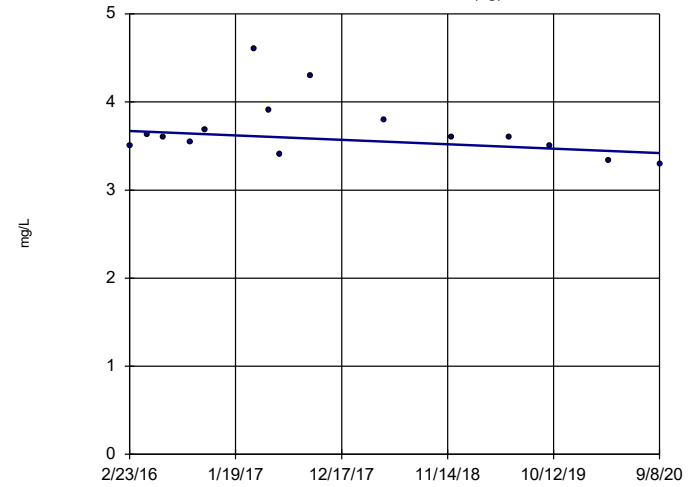


n = 15
 Slope = -0.0446 units per year.
 Mann-Kendall statistic = -27
 critical = -53
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 12/8/2020 5:05 PM View: Appendix III - Trend Tests
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-GSA-MW-4 (bg)

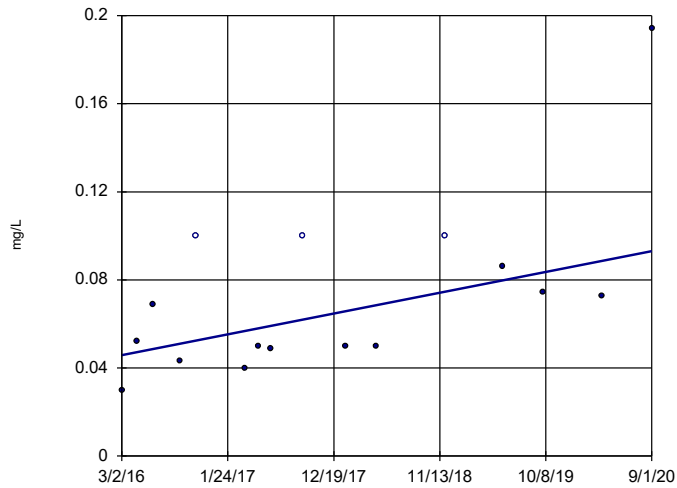


n = 15
 Slope = -0.05577 units per year.
 Mann-Kendall statistic = -27
 critical = -53
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 12/8/2020 5:05 PM View: Appendix III - Trend Tests
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-1

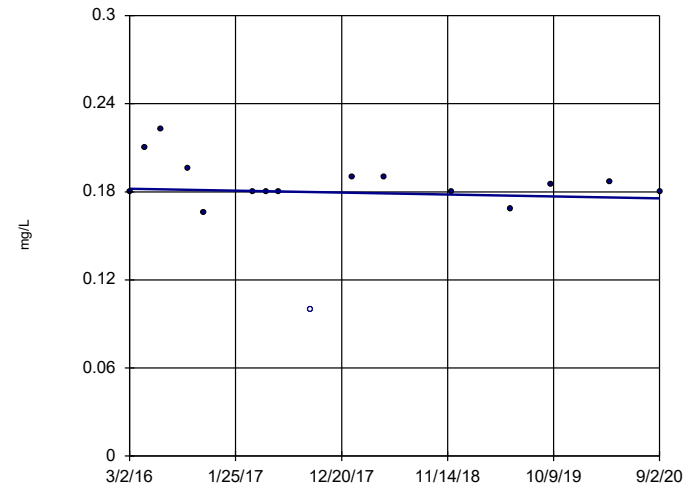


n = 16
 Slope = 0.0105 units per year.
 Mann-Kendall statistic = 48
 critical = 58
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 12/8/2020 5:05 PM View: Appendix III - Trend Tests
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-15

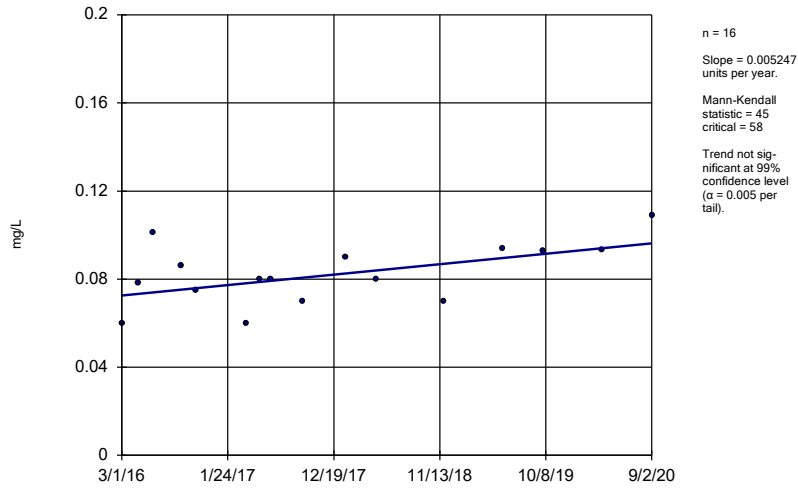


n = 16
 Slope = -0.001465 units per year.
 Mann-Kendall statistic = -18
 critical = -58
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 12/8/2020 5:05 PM View: Appendix III - Trend Tests
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-7

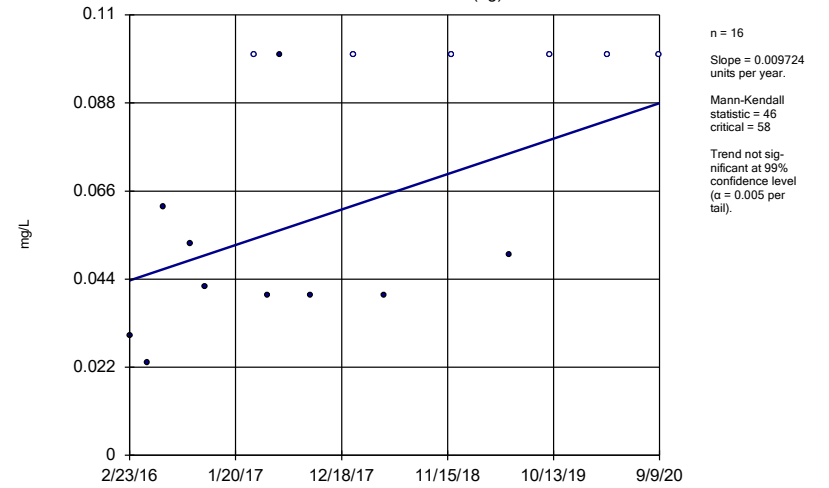


Constituent: Fluoride Analysis Run 12/8/2020 5:06 PM View: Appendix III - Trend Tests
Plant Barry Client: Southern Company Data: Barry Ash Pond

Hollow symbols indicate censored values.

Sen's Slope Estimator

BY-GSA-MW-1 (bg)

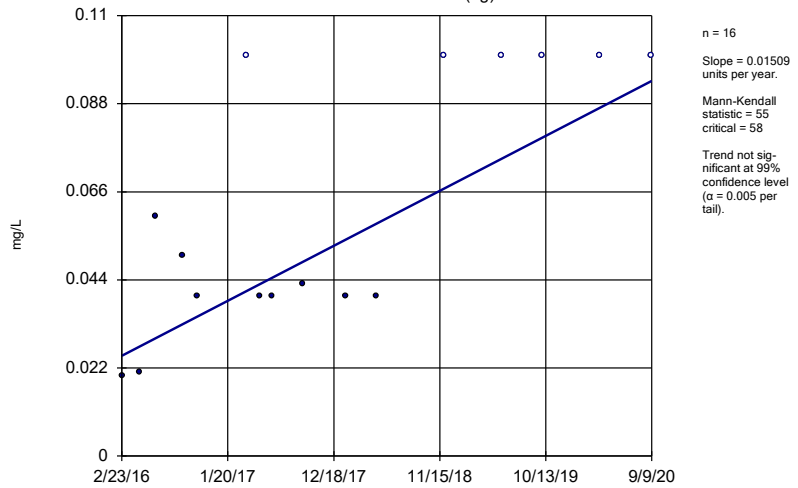


Constituent: Fluoride Analysis Run 12/8/2020 5:06 PM View: Appendix III - Trend Tests
Plant Barry Client: Southern Company Data: Barry Ash Pond

Hollow symbols indicate censored values.

Sen's Slope Estimator

BY-GSA-MW-2 (bg)

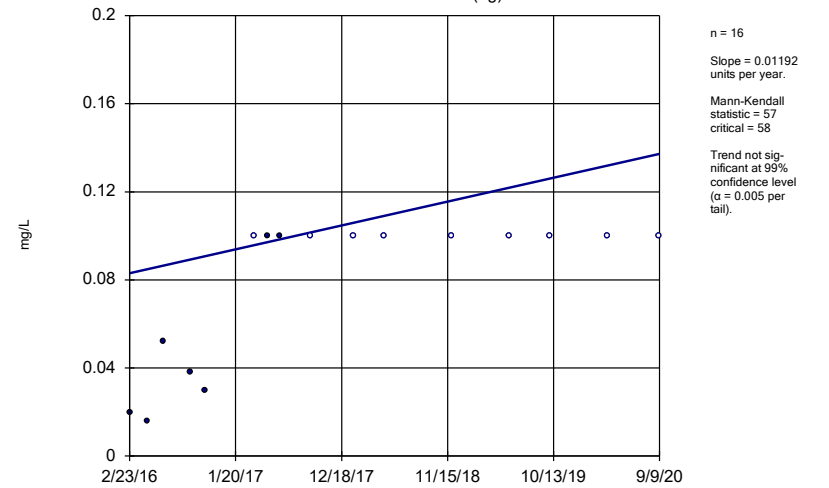


Constituent: Fluoride Analysis Run 12/8/2020 5:06 PM View: Appendix III - Trend Tests
Plant Barry Client: Southern Company Data: Barry Ash Pond

Hollow symbols indicate censored values.

Sen's Slope Estimator

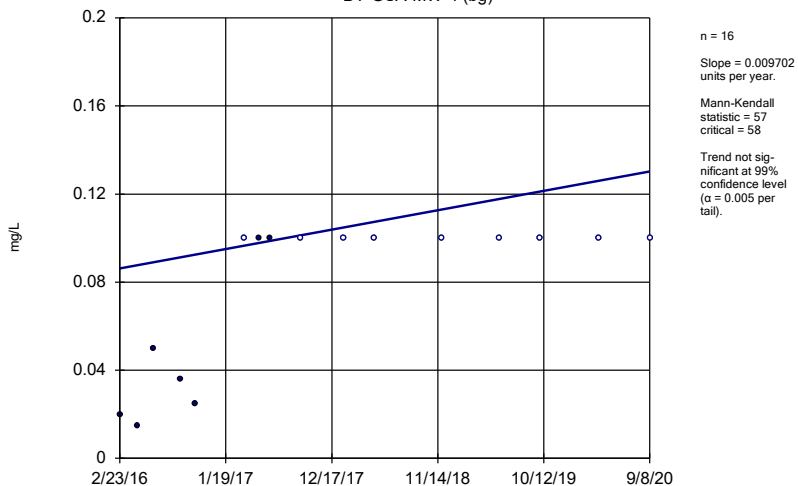
BY-GSA-MW-3 (bg)



Constituent: Fluoride Analysis Run 12/8/2020 5:06 PM View: Appendix III - Trend Tests
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

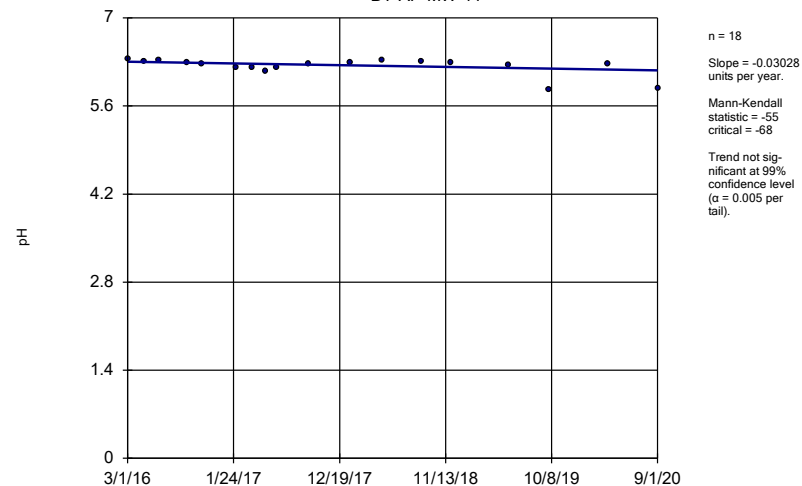
BY-GSA-MW-4 (bg)



Constituent: Fluoride Analysis Run 12/8/2020 5:06 PM View: Appendix III - Trend Tests
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

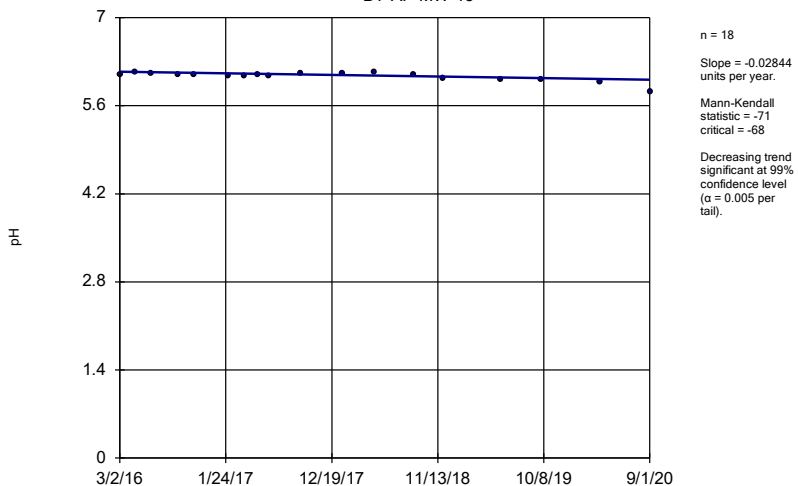
BY-AP-MW-11



Constituent: pH Analysis Run 12/8/2020 5:06 PM View: Appendix III - Trend Tests
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

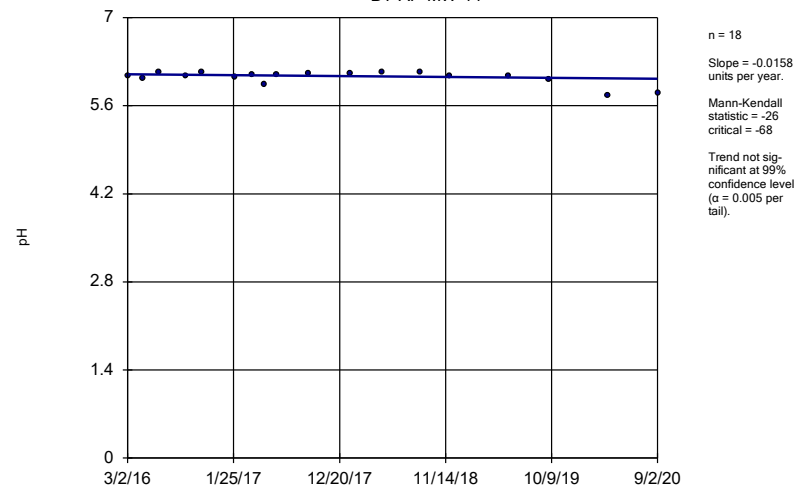
BY-AP-MW-13



Constituent: pH Analysis Run 12/8/2020 5:06 PM View: Appendix III - Trend Tests
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

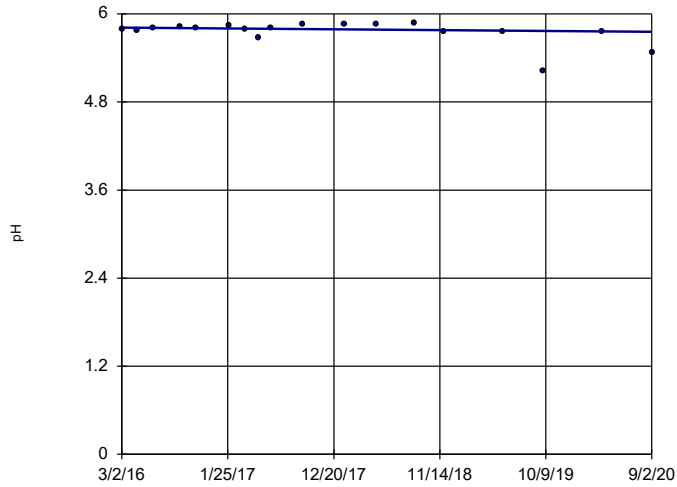
BY-AP-MW-14



Constituent: pH Analysis Run 12/8/2020 5:06 PM View: Appendix III - Trend Tests
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-16

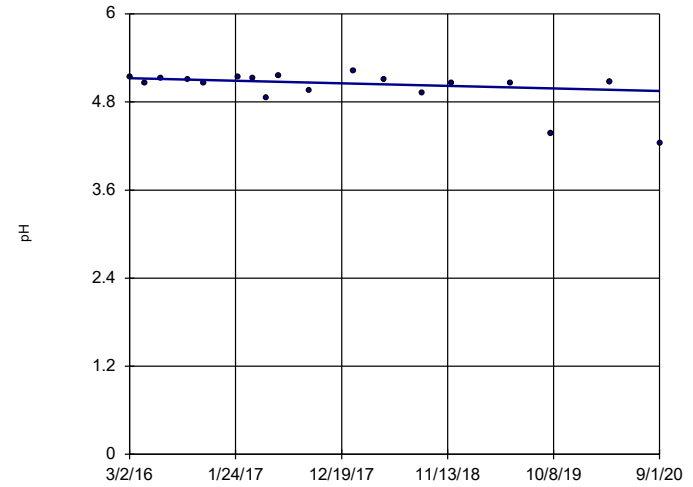


n = 18
 Slope = -0.0132
 units per year.
 Mann-Kendall
 statistic = -25
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH Analysis Run 12/8/2020 5:06 PM View: Appendix III - Trend Tests
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-3

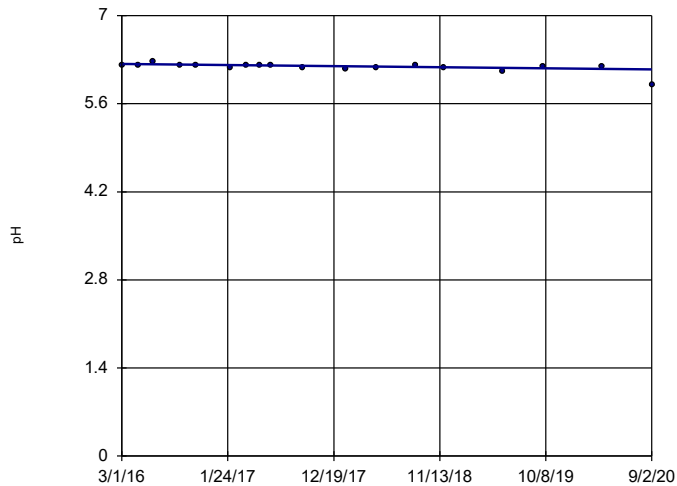


n = 18
 Slope = -0.03874
 units per year.
 Mann-Kendall
 statistic = -53
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH Analysis Run 12/8/2020 5:06 PM View: Appendix III - Trend Tests
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-8

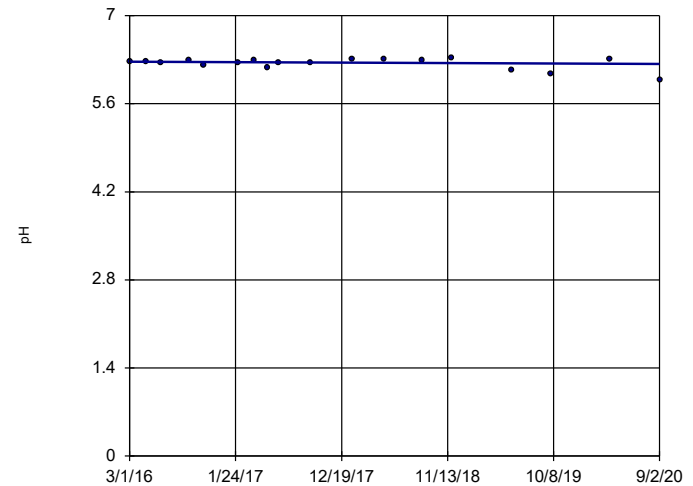


n = 18
 Slope = -0.01843
 units per year.
 Mann-Kendall
 statistic = -70
 critical = -68
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH Analysis Run 12/8/2020 5:06 PM View: Appendix III - Trend Tests
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-9

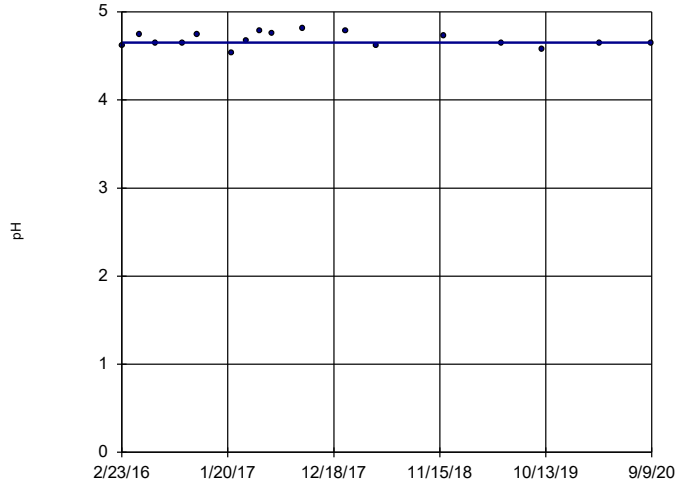


n = 18
 Slope = -0.007464
 units per year.
 Mann-Kendall
 statistic = -9
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH Analysis Run 12/8/2020 5:06 PM View: Appendix III - Trend Tests
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-GSA-MW-1 (bg)

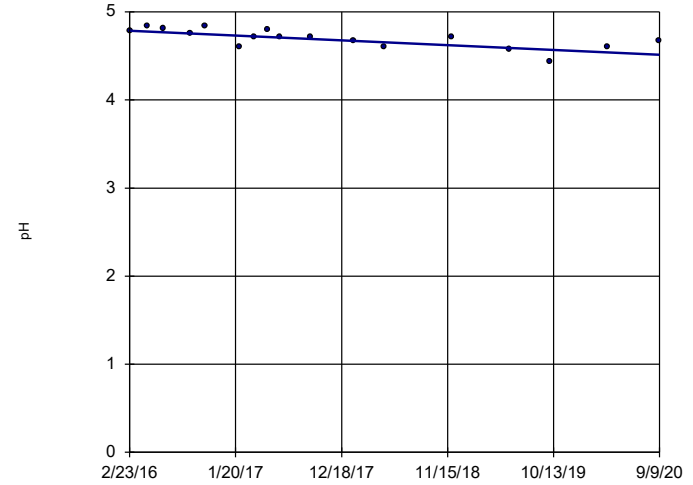


n = 17
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -3
 critical = -63
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH Analysis Run 12/8/2020 5:06 PM View: Appendix III - Trend Tests
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-GSA-MW-2 (bg)

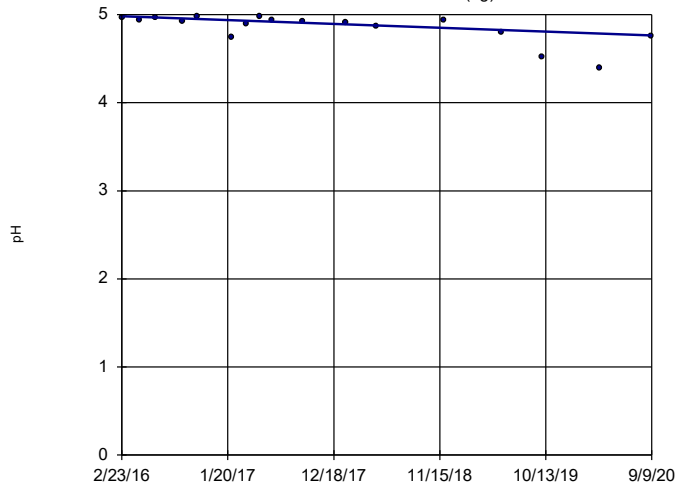


n = 17
 Slope = -0.06003
 units per year.
 Mann-Kendall
 statistic = -77
 critical = -63
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH Analysis Run 12/8/2020 5:06 PM View: Appendix III - Trend Tests
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-GSA-MW-3 (bg)

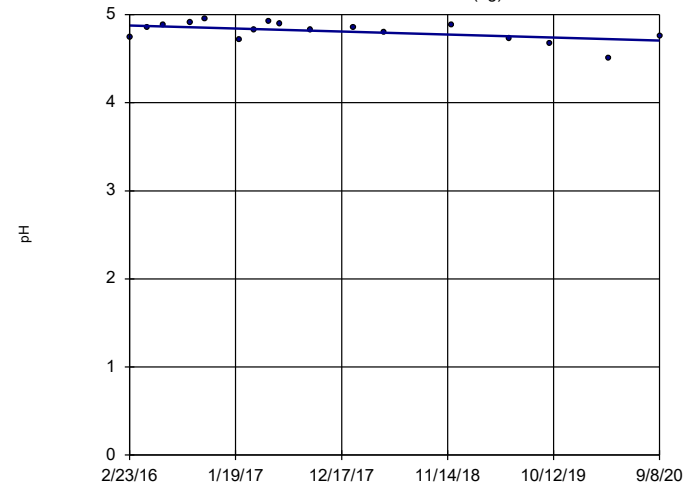


n = 17
 Slope = -0.04822
 units per year.
 Mann-Kendall
 statistic = -69
 critical = -63
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH Analysis Run 12/8/2020 5:06 PM View: Appendix III - Trend Tests
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

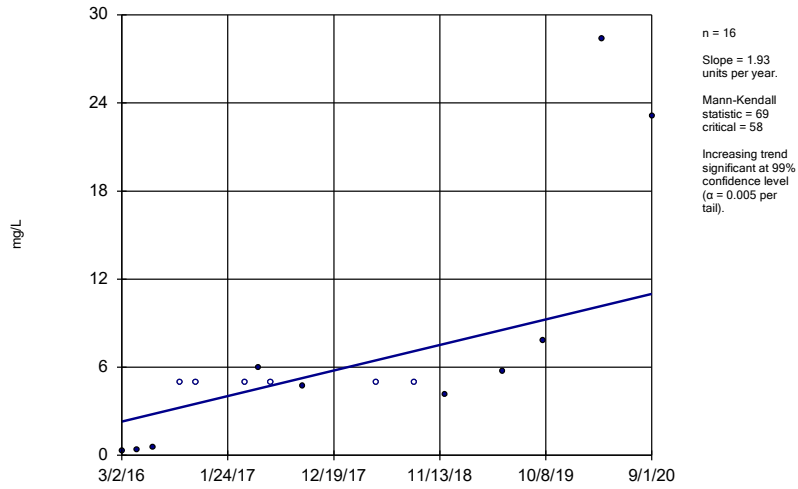
BY-GSA-MW-4 (bg)



n = 17
 Slope = -0.03765
 units per year.
 Mann-Kendall
 statistic = -47
 critical = -63
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

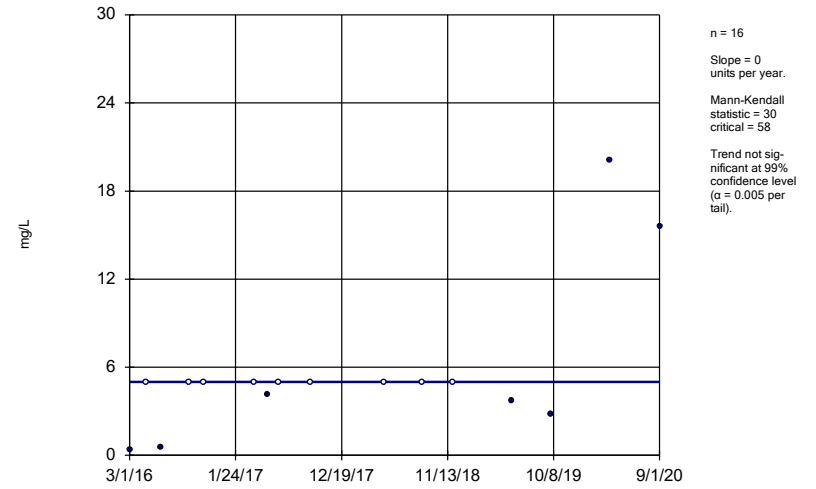
Constituent: pH Analysis Run 12/8/2020 5:06 PM View: Appendix III - Trend Tests
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator
BY-AP-MW-1



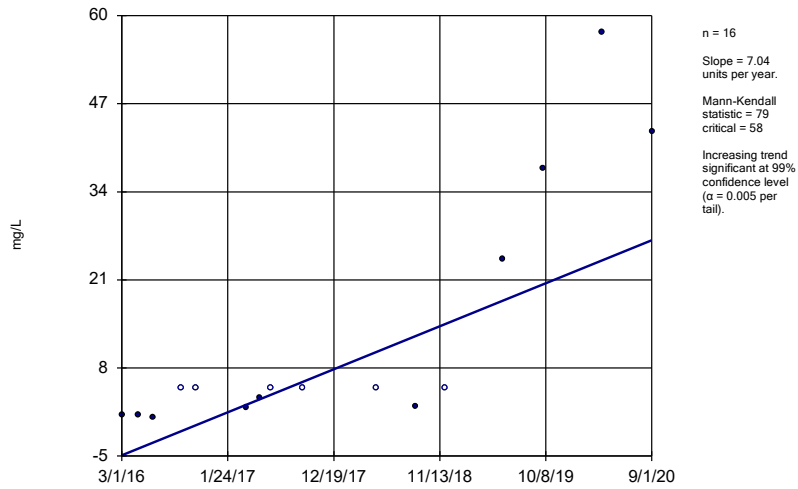
Constituent: Sulfate Analysis Run 12/8/2020 5:06 PM View: Appendix III - Trend Tests
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator
BY-AP-MW-10



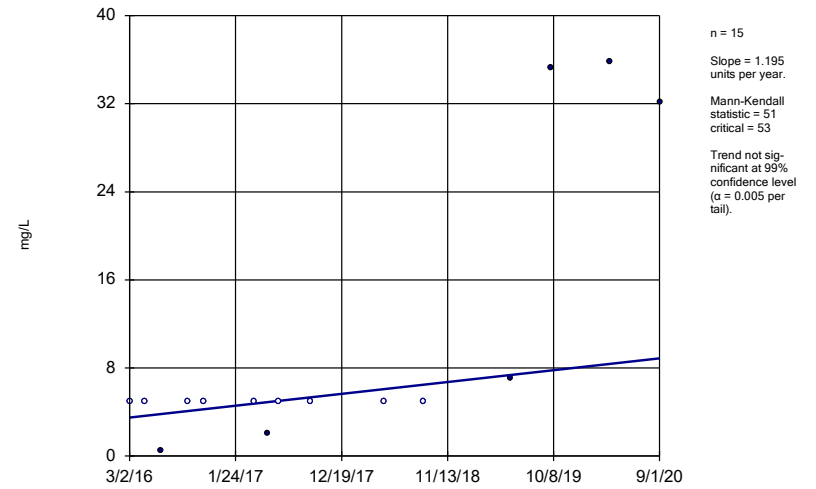
Constituent: Sulfate Analysis Run 12/8/2020 5:06 PM View: Appendix III - Trend Tests
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator
BY-AP-MW-11



Constituent: Sulfate Analysis Run 12/8/2020 5:06 PM View: Appendix III - Trend Tests
Plant Barry Client: Southern Company Data: Barry Ash Pond

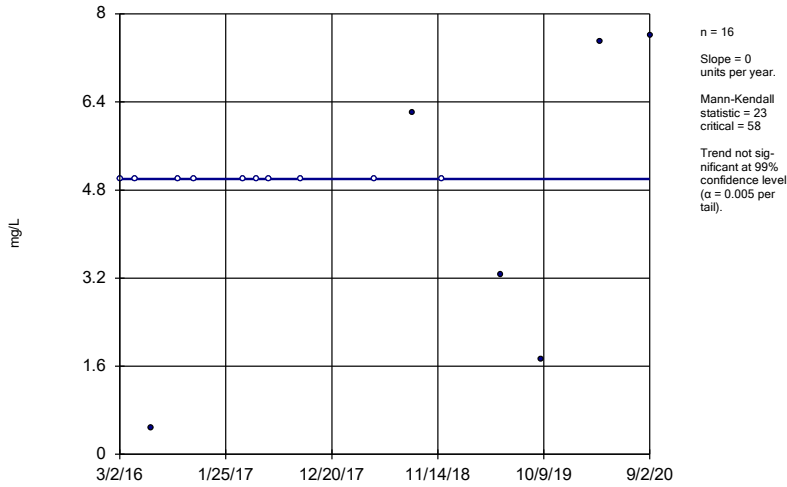
Sen's Slope Estimator
BY-AP-MW-12



Constituent: Sulfate Analysis Run 12/8/2020 5:06 PM View: Appendix III - Trend Tests
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

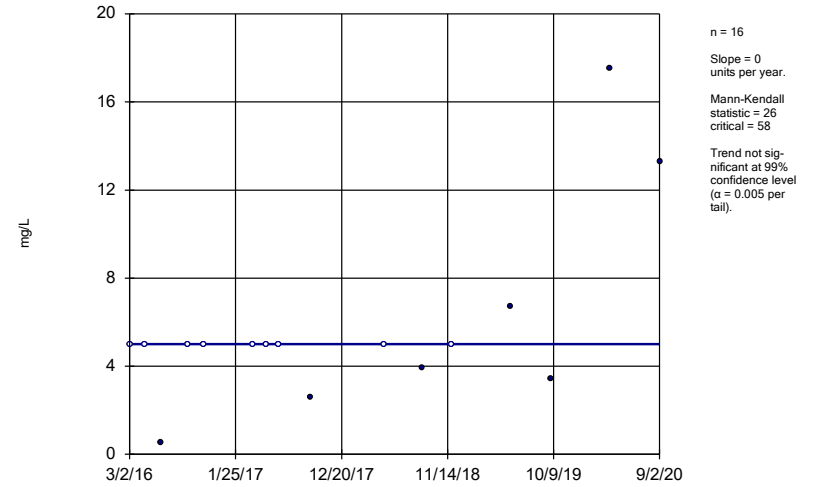
BY-AP-MW-15



Constituent: Sulfate Analysis Run 12/8/2020 5:06 PM View: Appendix III - Trend Tests
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

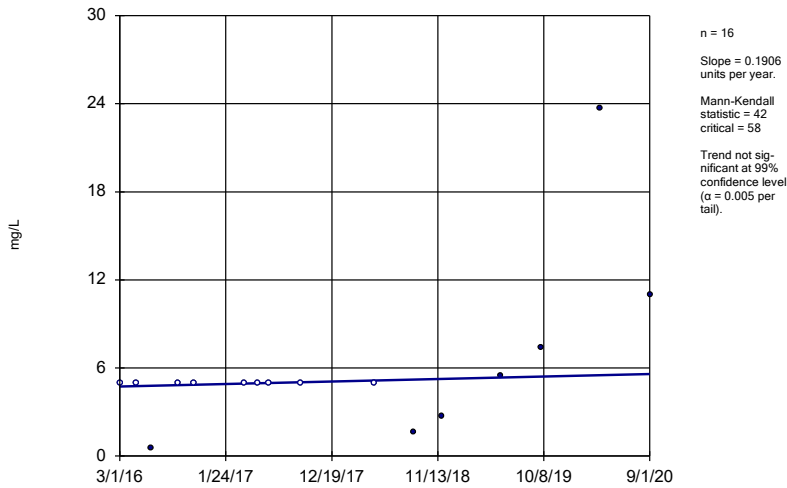
BY-AP-MW-16



Constituent: Sulfate Analysis Run 12/8/2020 5:06 PM View: Appendix III - Trend Tests
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

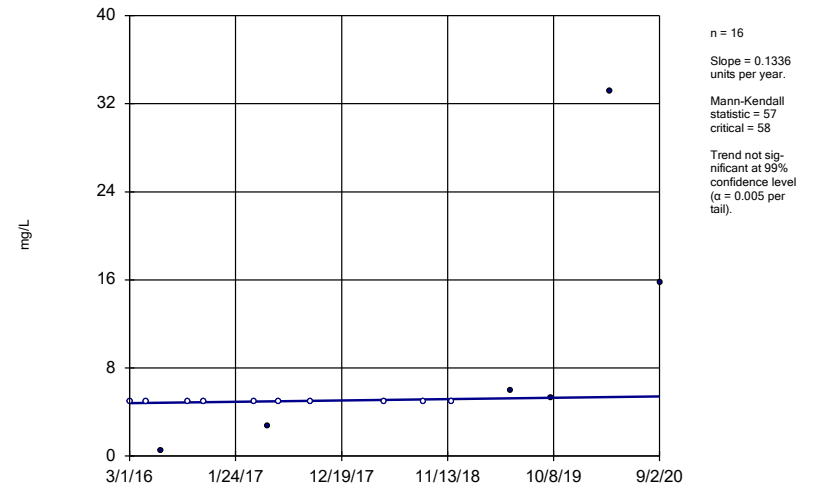
BY-AP-MW-5



Constituent: Sulfate Analysis Run 12/8/2020 5:06 PM View: Appendix III - Trend Tests
Plant Barry Client: Southern Company Data: Barry Ash Pond

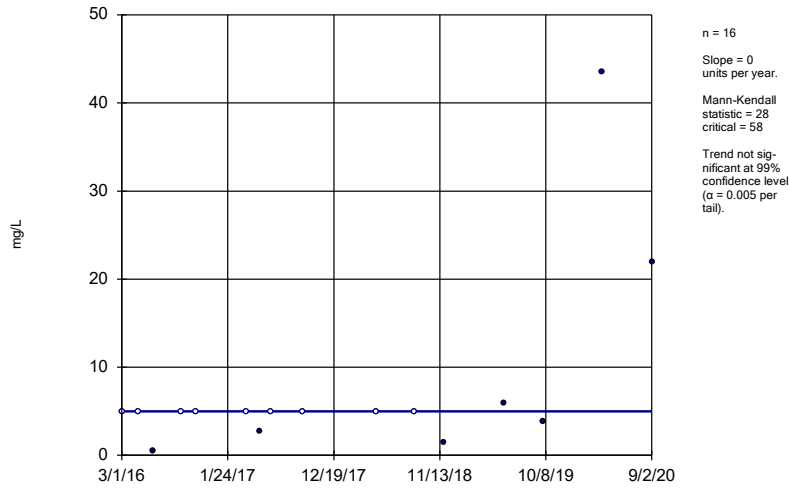
Sen's Slope Estimator

BY-AP-MW-8



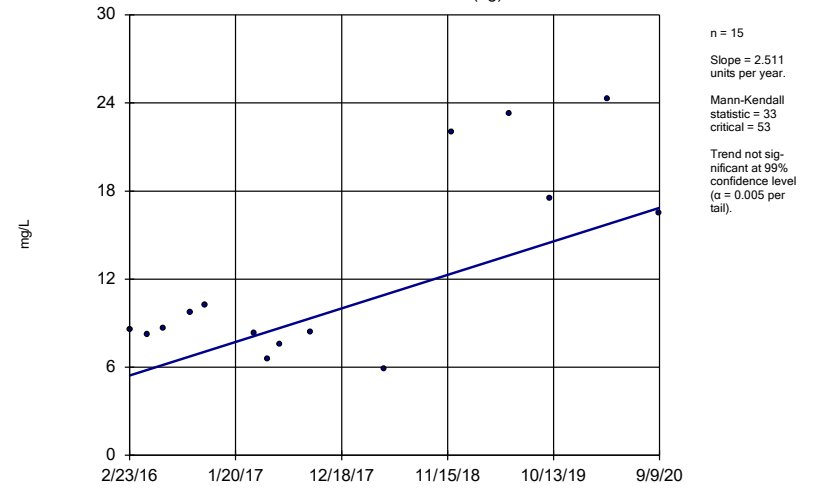
Constituent: Sulfate Analysis Run 12/8/2020 5:06 PM View: Appendix III - Trend Tests
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator
 BY-AP-MW-9



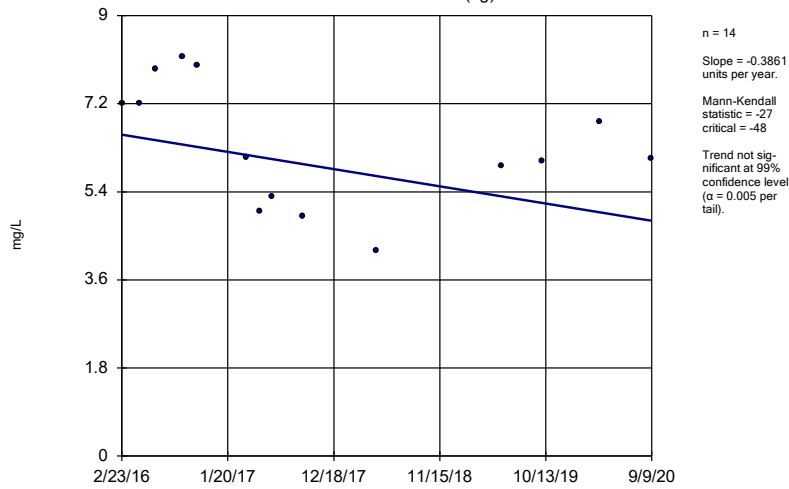
Constituent: Sulfate Analysis Run 12/8/2020 5:06 PM View: Appendix III - Trend Tests
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator
 BY-GSA-MW-1 (bg)



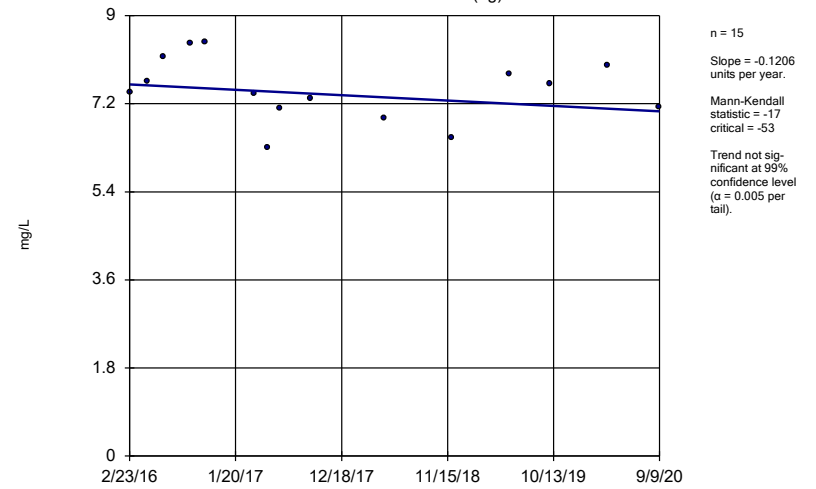
Constituent: Sulfate Analysis Run 12/8/2020 5:06 PM View: Appendix III - Trend Tests
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator
 BY-GSA-MW-2 (bg)



Constituent: Sulfate Analysis Run 12/8/2020 5:06 PM View: Appendix III - Trend Tests
 Plant Barry Client: Southern Company Data: Barry Ash Pond

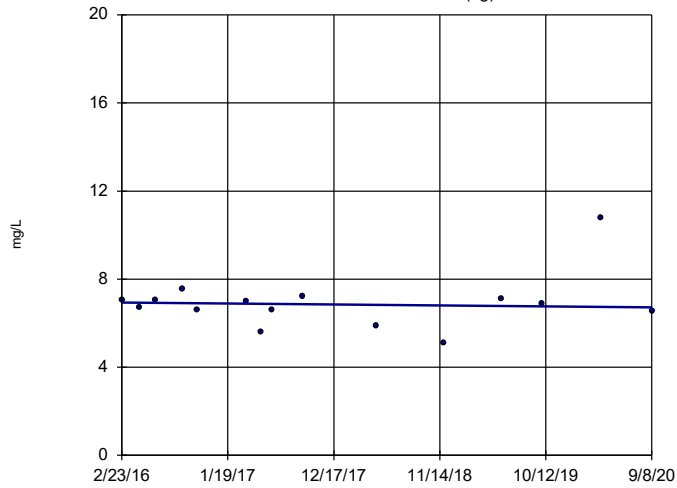
Sen's Slope Estimator
 BY-GSA-MW-3 (bg)



Constituent: Sulfate Analysis Run 12/8/2020 5:06 PM View: Appendix III - Trend Tests
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-GSA-MW-4 (bg)

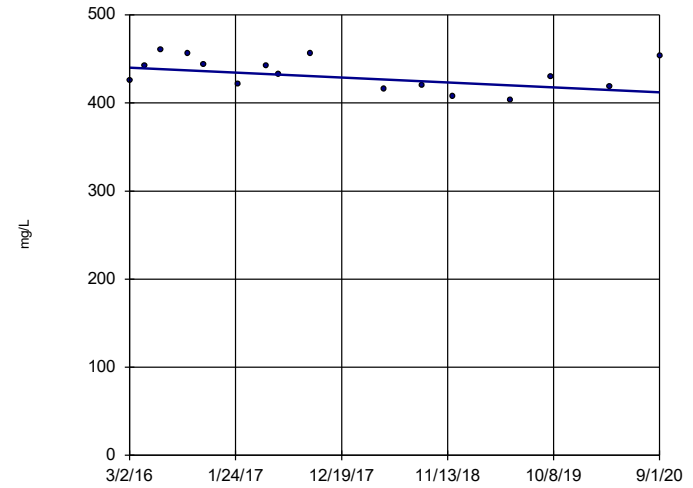


n = 15
 Slope = -0.0473
 units per year.
 Mann-Kendall
 statistic = -12
 critical = -53
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 12/8/2020 5:06 PM View: Appendix III - Trend Tests
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-1

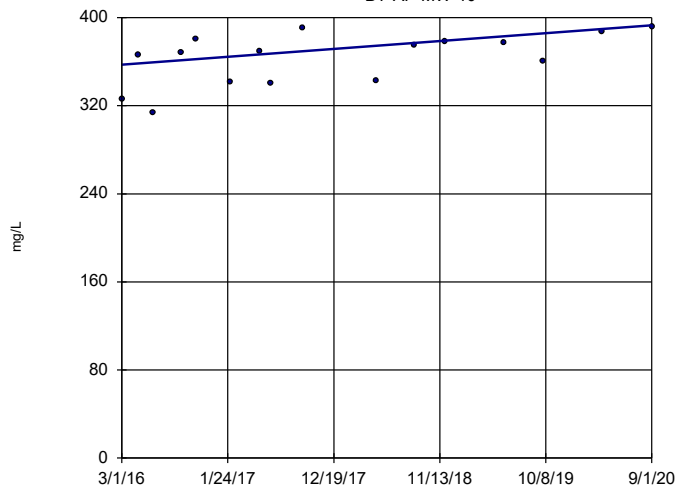


n = 16
 Slope = -6.195
 units per year.
 Mann-Kendall
 statistic = -40
 critical = -58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 12/8/2020 5:06 PM View: Appendix III - Trend Tests
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-10

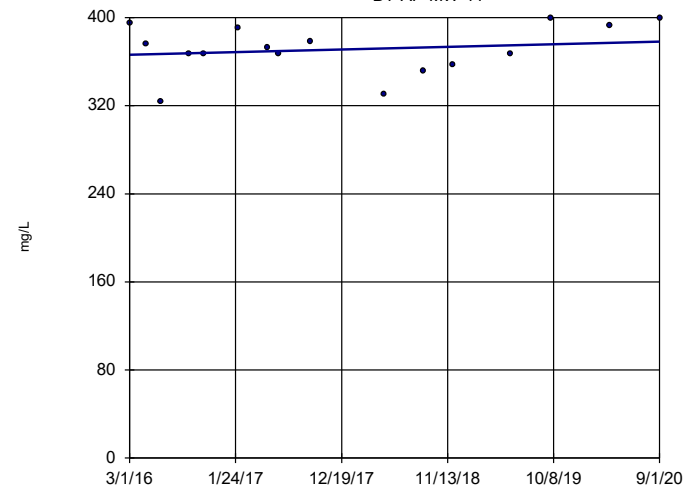


n = 16
 Slope = 7.891
 units per year.
 Mann-Kendall
 statistic = 56
 critical = 58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 12/8/2020 5:06 PM View: Appendix III - Trend Tests
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-11

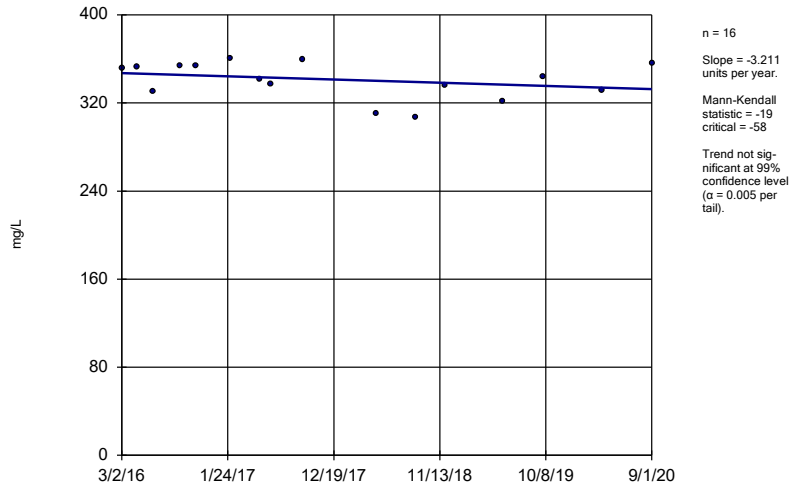


n = 16
 Slope = 2.62
 units per year.
 Mann-Kendall
 statistic = 17
 critical = 58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 12/8/2020 5:06 PM View: Appendix III - Trend Tests
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

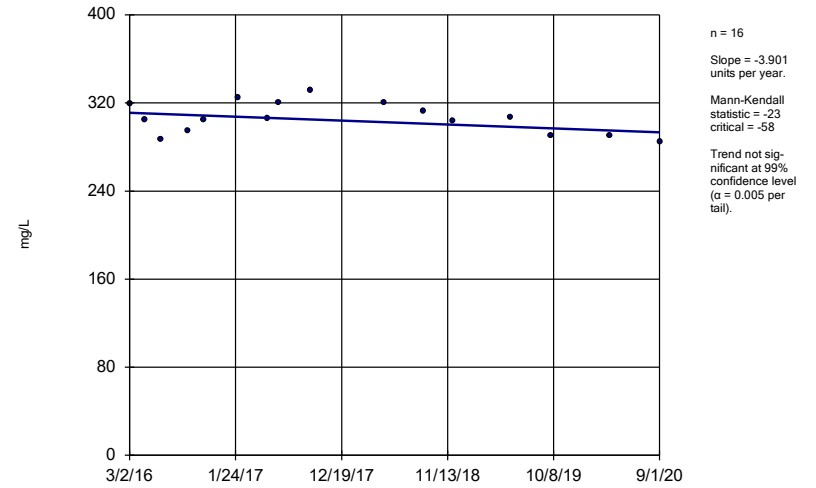
BY-AP-MW-12



Constituent: TDS Analysis Run 12/8/2020 5:06 PM View: Appendix III - Trend Tests
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

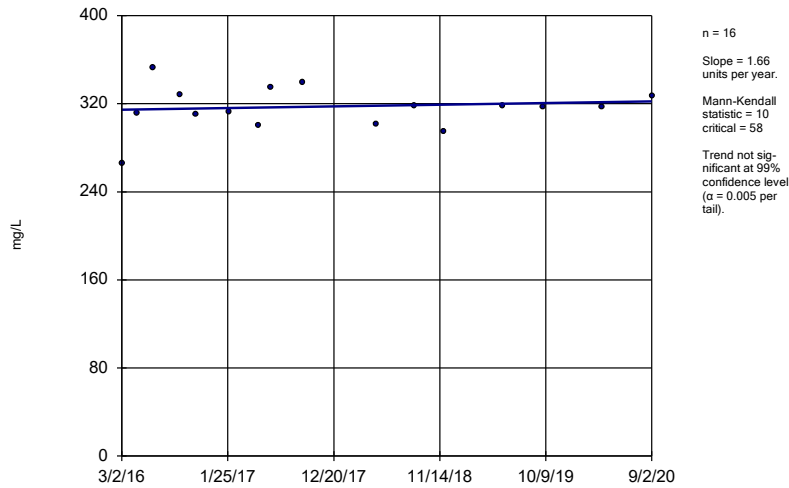
BY-AP-MW-13



Constituent: TDS Analysis Run 12/8/2020 5:06 PM View: Appendix III - Trend Tests
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

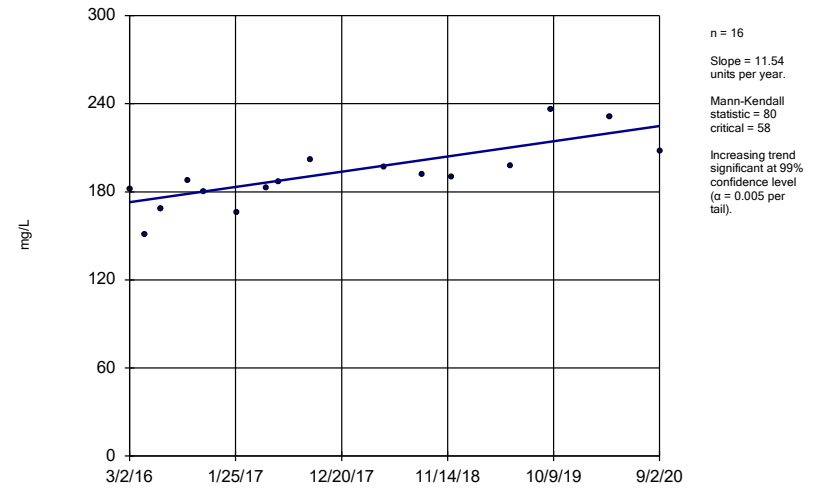
BY-AP-MW-14



Constituent: TDS Analysis Run 12/8/2020 5:06 PM View: Appendix III - Trend Tests
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

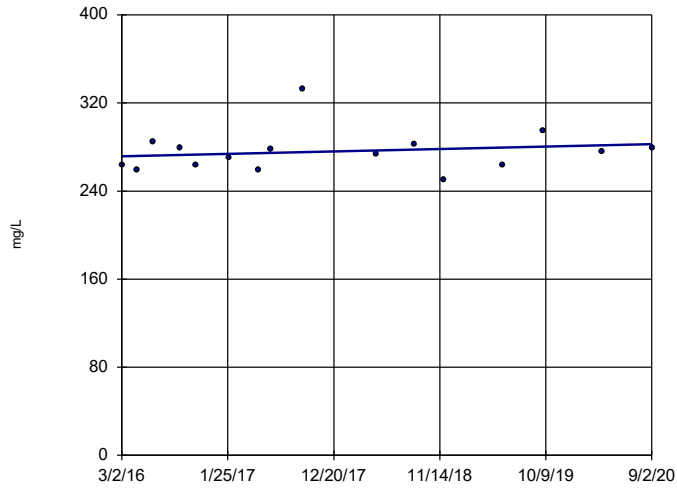
BY-AP-MW-15



Constituent: TDS Analysis Run 12/8/2020 5:06 PM View: Appendix III - Trend Tests
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-16

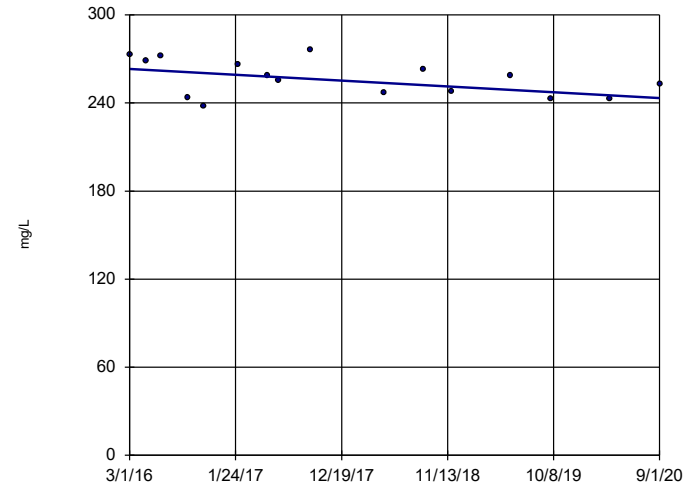


n = 16
 Slope = 2.459
 units per year.
 Mann-Kendall
 statistic = 21
 critical = 58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 12/8/2020 5:06 PM View: Appendix III - Trend Tests
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-5

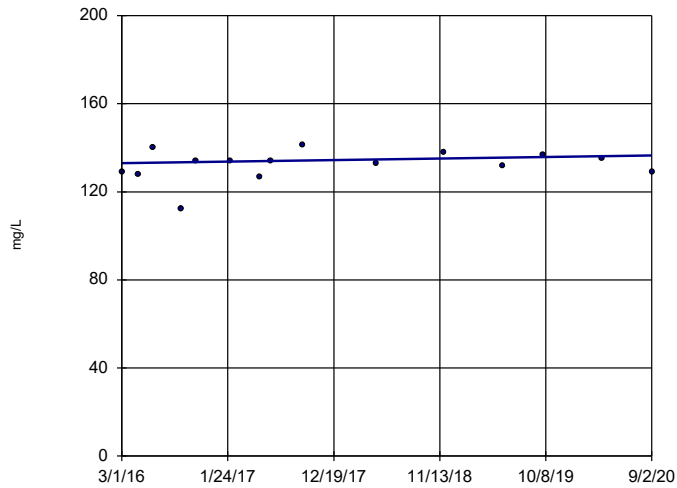


n = 16
 Slope = -4.403
 units per year.
 Mann-Kendall
 statistic = -42
 critical = -58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 12/8/2020 5:06 PM View: Appendix III - Trend Tests
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-7

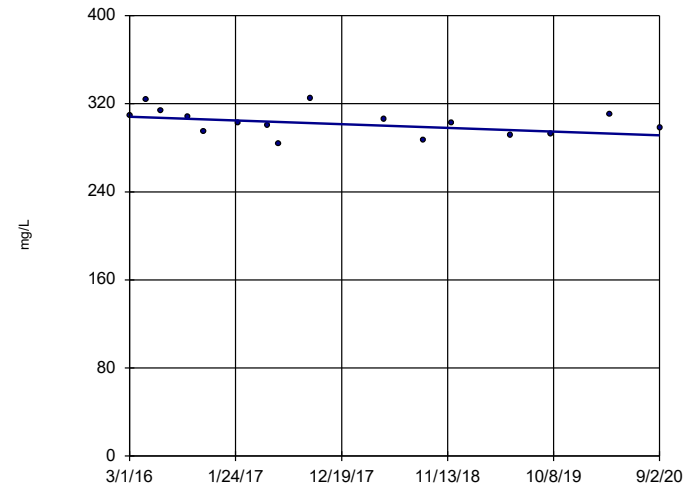


n = 15
 Slope = 0.7866
 units per year.
 Mann-Kendall
 statistic = 15
 critical = 53
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 12/8/2020 5:06 PM View: Appendix III - Trend Tests
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-8

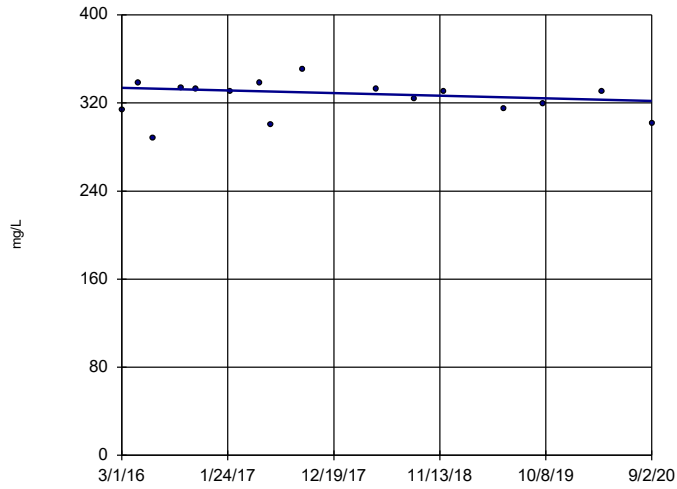


n = 16
 Slope = -3.764
 units per year.
 Mann-Kendall
 statistic = -35
 critical = -58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 12/8/2020 5:06 PM View: Appendix III - Trend Tests
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-9



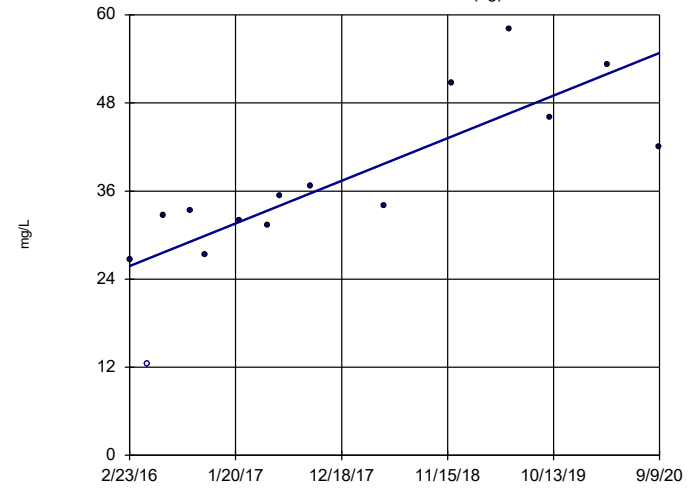
n = 16
 Slope = -2.603
 units per year.
 Mann-Kendall
 statistic = -21
 critical = -58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 12/8/2020 5:06 PM View: Appendix III - Trend Tests
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Hollow symbols indicate censored values.

Sen's Slope Estimator

BY-GSA-MW-1 (bg)

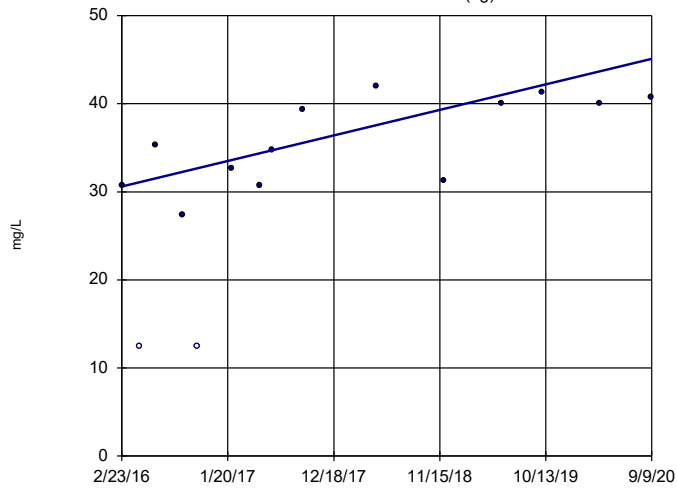


n = 15
 Slope = 6.385
 units per year.
 Mann-Kendall
 statistic = 71
 critical = 53
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 12/8/2020 5:06 PM View: Appendix III - Trend Tests
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-GSA-MW-2 (bg)

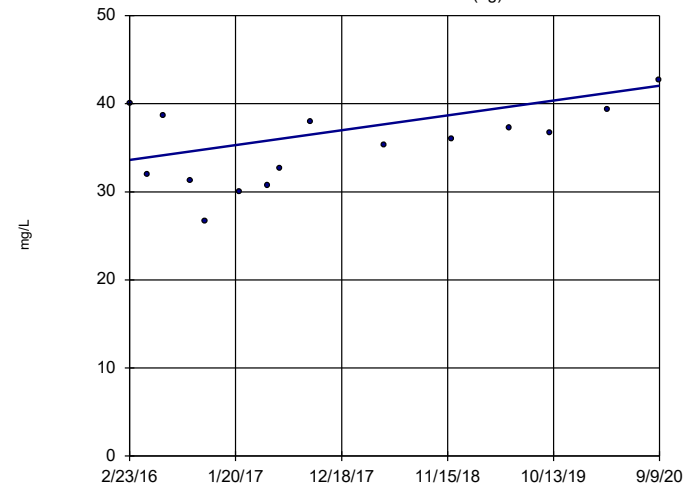


n = 15
 Slope = 3.19
 units per year.
 Mann-Kendall
 statistic = 60
 critical = 53
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 12/8/2020 5:06 PM View: Appendix III - Trend Tests
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-GSA-MW-3 (bg)

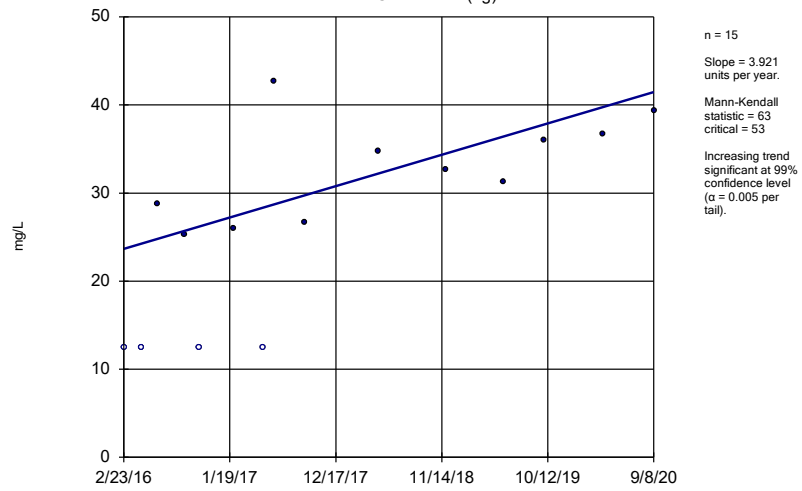


n = 15
 Slope = 1.858
 units per year.
 Mann-Kendall
 statistic = 35
 critical = 53
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 12/8/2020 5:06 PM View: Appendix III - Trend Tests
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-GSA-MW-4 (bg)



Constituent: TDS Analysis Run 12/8/2020 5:06 PM View: Appendix III - Trend Tests
Plant Barry Client: Southern Company Data: Barry Ash Pond

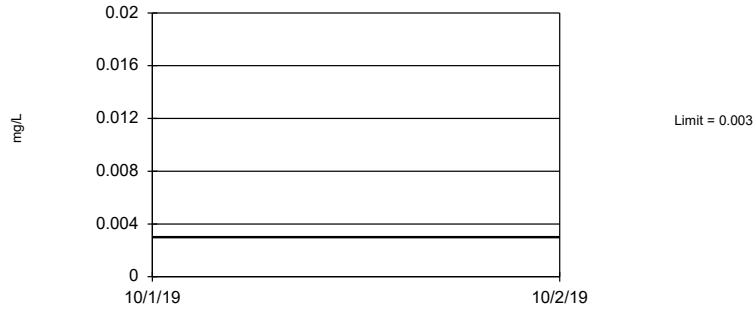
FIGURE G.

Upper Tolerance Limits - Appendix IV

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 7/23/2020, 4:09 PM

<u>Constituent</u>	<u>Upper Lim.</u>	<u>Lower Lim.</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)	0.003	n/a	52	n/a	n/a	90.38	n/a	n/a	0.06944	NP Inter(NDs)
Arsenic (mg/L)	0.005	n/a	52	n/a	n/a	100	n/a	n/a	0.06944	NP Inter(NDs)
Barium (mg/L)	0.183	n/a	52	n/a	n/a	0	n/a	n/a	0.06944	NP Inter(normal...
Beryllium (mg/L)	0.003	n/a	50	n/a	n/a	94	n/a	n/a	0.07694	NP Inter(NDs)
Cadmium (mg/L)	0.001	n/a	52	n/a	n/a	100	n/a	n/a	0.06944	NP Inter(NDs)
Chromium (mg/L)	0.01	n/a	52	n/a	n/a	96.15	n/a	n/a	0.06944	NP Inter(NDs)
Cobalt (mg/L)	0.0157	n/a	51	n/a	n/a	68.63	n/a	n/a	0.0731	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	3.202	n/a	52	0.9903	0.2355	0	None	x^(1/3)	0.05	Inter
Fluoride (mg/L)	0.1	n/a	56	n/a	n/a	39.29	n/a	n/a	0.05656	NP Inter(normal...
Lead (mg/L)	0.005	n/a	52	n/a	n/a	100	n/a	n/a	0.06944	NP Inter(NDs)
Lithium (mg/L)	0.02	n/a	52	n/a	n/a	100	n/a	n/a	0.06944	NP Inter(NDs)
Mercury (mg/L)	0.0005	n/a	52	n/a	n/a	100	n/a	n/a	0.06944	NP Inter(NDs)
Molybdenum (mg/L)	0.01	n/a	52	n/a	n/a	100	n/a	n/a	0.06944	NP Inter(NDs)
Selenium (mg/L)	0.01	n/a	52	n/a	n/a	100	n/a	n/a	0.06944	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	52	n/a	n/a	100	n/a	n/a	0.06944	NP Inter(NDs)

Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 52 background values. 90.38% NDs. 91.6% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.06944.

Constituent: Antimony Analysis Run 7/23/2020 4:01 PM View: UTL's - Appendix IV
Plant Barry Client: Southern Company Data: Barry Ash Pond

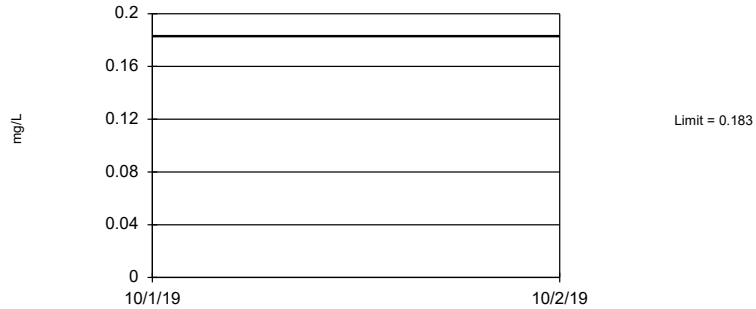
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. All background values were censored; limit is most recent reporting limit. 91.6% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.06944.

Constituent: Arsenic Analysis Run 7/23/2020 4:01 PM View: UTL's - Appendix IV
Plant Barry Client: Southern Company Data: Barry Ash Pond

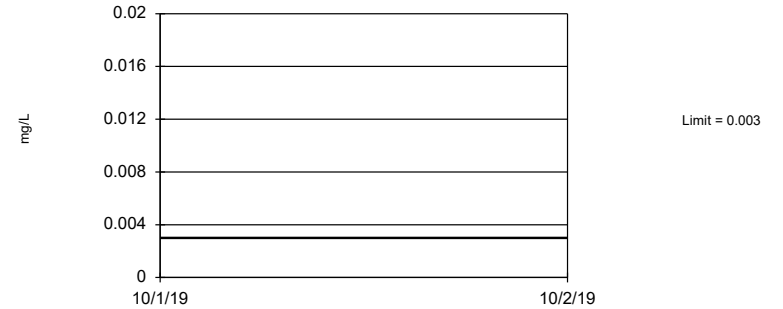
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 52 background values. 91.6% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.06944.

Constituent: Barium Analysis Run 7/23/2020 4:01 PM View: UTL's - Appendix IV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 50 background values. 94% NDs. 91.21% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.07694.

Constituent: Beryllium Analysis Run 7/23/2020 4:01 PM View: UTL's - Appendix IV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. All background values were censored; limit is most recent reporting limit. 91.6% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.06944.

Constituent: Cadmium Analysis Run 7/23/2020 4:01 PM View: UTL's - Appendix IV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 52 background values. 96.15% NDs. 91.6% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.06944.

Constituent: Chromium Analysis Run 7/23/2020 4:01 PM View: UTL's - Appendix IV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 51 background values. 68.63% NDs. 91.21% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.0731.

Constituent: Cobalt Analysis Run 7/23/2020 4:01 PM View: UTL's - Appendix IV
Plant Barry Client: Southern Company Data: Barry Ash Pond

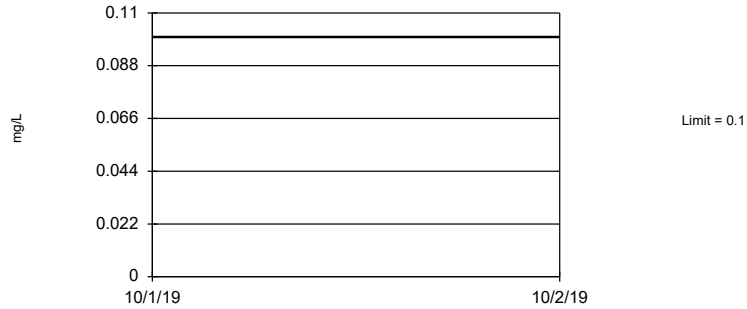
Tolerance Limit
Interwell Parametric



95% coverage. Background Data Summary (based on cube root transformation): Mean=0.9903, Std. Dev.=0.2355, n=52. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9388, critical = 0.937. Report alpha = 0.05.

Constituent: Combined Radium 226 + 228 Analysis Run 7/23/2020 4:01 PM View: UTL's - Appendix IV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 56 background values. 39.29% NDs. 91.99% coverage at alpha=0.01; 94.73% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.05656.

Constituent: Fluoride Analysis Run 7/23/2020 4:01 PM View: UTL's - Appendix IV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. All background values were censored; limit is most recent reporting limit. 91.6% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.06944.

Constituent: Lead Analysis Run 7/23/2020 4:01 PM View: UTL's - Appendix IV
Plant Barry Client: Southern Company Data: Barry Ash Pond

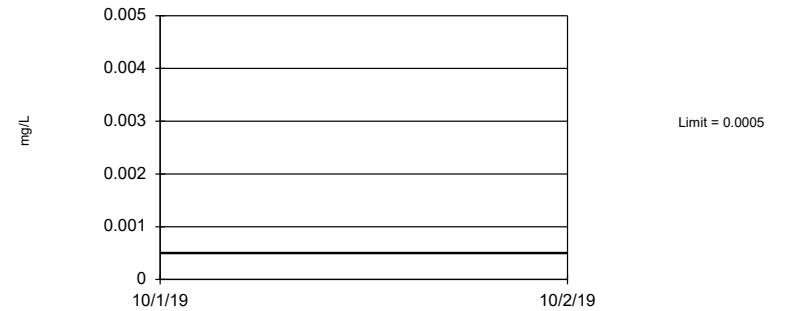
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. All background values were censored; limit is most recent reporting limit. 91.6% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.06944.

Constituent: Lithium Analysis Run 7/23/2020 4:01 PM View: UTL's - Appendix IV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. All background values were censored; limit is most recent reporting limit. 91.6% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.06944.

Constituent: Mercury Analysis Run 7/23/2020 4:01 PM View: UTL's - Appendix IV
Plant Barry Client: Southern Company Data: Barry Ash Pond

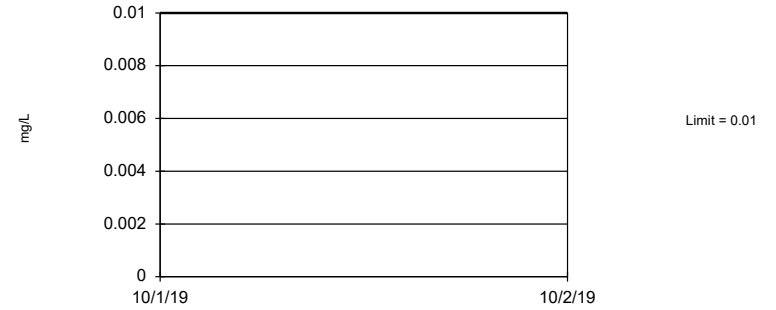
Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. All background values were censored; limit is most recent reporting limit. 91.6% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.06944.

Constituent: Molybdenum Analysis Run 7/23/2020 4:01 PM View: UTL's - Appendix IV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. All background values were censored; limit is most recent reporting limit. 91.6% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.06944.

Constituent: Selenium Analysis Run 7/23/2020 4:01 PM View: UTL's - Appendix IV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. All background values were censored; limit is most recent reporting limit. 91.6% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.06944.

Constituent: Thallium Analysis Run 7/23/2020 4:01 PM View: UTL's - Appendix IV
Plant Barry Client: Southern Company Data: Barry Ash Pond

FIGURE H.

BARRY ASH POND GWPS			
Analyte	Units	Background	GWPS
Antimony	mg/L	0.003	0.006
Arsenic	mg/L	0.005	0.01
Barium	mg/L	0.183	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	0.0157	0.0157
Combined Radium-226/228	pCi/L	3.202	5
Fluoride	mg/L	0.1	4
Lead	mg/L	0.005	0.015
Lithium	mg/L	0.02	0.04
Mercury	mg/L	0.0005	0.002
Molybdenum	mg/L	0.01	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 2019.

FIGURE I.

Confidence Intervals Summary - Significant Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 12/11/2020, 9:28 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	BY-AP-MW-1	0.07668	0.05429	0.01	Yes 8	0.06549	0.01056	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-10	0.07544	0.04506	0.01	Yes 8	0.06025	0.01433	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-11	0.01612	0.0138	0.01	Yes 8	0.01496	0.001097	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-12	0.02427	0.02125	0.01	Yes 8	0.02276	0.001424	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-13	0.0175	0.0138	0.01	Yes 8	0.01488	0.00118	0	None	No	0.004	NP (normality)
Arsenic (mg/L)	BY-AP-MW-14	0.01699	0.01353	0.01	Yes 8	0.01526	0.00163	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-15	0.01915	0.01528	0.01	Yes 8	0.01721	0.001825	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-16	0.01412	0.01019	0.01	Yes 8	0.01215	0.001854	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-5	0.03414	0.02766	0.01	Yes 8	0.0309	0.00306	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-7	0.0228	0.0194	0.01	Yes 8	0.0211	0.001602	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-8	0.06075	0.04557	0.01	Yes 8	0.05316	0.00716	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-9	0.04413	0.03788	0.01	Yes 8	0.04103	0.003052	0	None	x^2	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-15	0.0361	0.02827	0.0157	Yes 8	0.03219	0.003695	0	None	No	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-7	0.01933	0.01642	0.0157	Yes 8	0.01788	0.001375	0	None	No	0.01	Param.

Confidence Intervals Summary - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 12/11/2020, 9:28 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	BY-AP-MW-1	0.003	0.003	0.006	No 8	0.003	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	BY-AP-MW-10	0.003	0.003	0.006	No 8	0.003	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	BY-AP-MW-11	0.003	0.003	0.006	No 8	0.003	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	BY-AP-MW-12	0.003	0.003	0.006	No 8	0.003	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	BY-AP-MW-13	0.003	0.000857	0.006	No 8	0.002732	0.0007577	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	BY-AP-MW-14	0.003	0.003	0.006	No 8	0.003	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	BY-AP-MW-15	0.003	0.003	0.006	No 8	0.003	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	BY-AP-MW-16	0.003	0.003	0.006	No 8	0.003	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	BY-AP-MW-2	0.003	0.003	0.006	No 8	0.003	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	BY-AP-MW-3	0.003	0.003	0.006	No 8	0.003	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	BY-AP-MW-4	0.003	0.003	0.006	No 8	0.003	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	BY-AP-MW-5	0.003	0.003	0.006	No 8	0.003	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	BY-AP-MW-6	0.003	0.003	0.006	No 8	0.003	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	BY-AP-MW-7	0.003	0.003	0.006	No 8	0.003	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	BY-AP-MW-8	0.003	0.003	0.006	No 8	0.003	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	BY-AP-MW-9	0.003	0.003	0.006	No 8	0.003	0	100	None	No	0.004	NP (NDs)
Arsenic (mg/L)	BY-AP-MW-1	0.07668	0.05429	0.01	Yes 8	0.06549	0.01056	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-10	0.07544	0.04506	0.01	Yes 8	0.06025	0.01433	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-11	0.01612	0.0138	0.01	Yes 8	0.01496	0.001097	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-12	0.02427	0.02125	0.01	Yes 8	0.02276	0.001424	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-13	0.0175	0.0138	0.01	Yes 8	0.01488	0.00118	0	None	No	0.004	NP (normality)
Arsenic (mg/L)	BY-AP-MW-14	0.01699	0.01353	0.01	Yes 8	0.01526	0.00163	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-15	0.01915	0.01528	0.01	Yes 8	0.01721	0.001825	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-16	0.01412	0.01019	0.01	Yes 8	0.01215	0.001854	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-2	0.001724	0.001376	0.01	No 8	0.00155	0.000164	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-5	0.03414	0.02766	0.01	Yes 8	0.0309	0.00306	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-6	0.0025	0.0025	0.01	No 8	0.0025	0	100	None	No	0.004	NP (NDs)
Arsenic (mg/L)	BY-AP-MW-7	0.0228	0.0194	0.01	Yes 8	0.0211	0.001602	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-8	0.06075	0.04557	0.01	Yes 8	0.05316	0.00716	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-9	0.04413	0.03788	0.01	Yes 8	0.04103	0.003052	0	None	x^2	0.01	Param.
Barium (mg/L)	BY-AP-MW-1	0.3093	0.2612	2	No 8	0.2853	0.02271	0	None	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-10	0.07497	0.06311	2	No 8	0.06904	0.005594	0	None	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-11	0.09023	0.0728	2	No 8	0.08151	0.008224	0	None	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-12	0.08398	0.07277	2	No 8	0.07838	0.005292	0	None	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-13	0.0806	0.0688	2	No 8	0.0717	0.003855	0	None	No	0.004	NP (normality)
Barium (mg/L)	BY-AP-MW-14	0.0687	0.0585	2	No 8	0.06155	0.003146	0	None	No	0.004	NP (normality)
Barium (mg/L)	BY-AP-MW-15	0.06907	0.04825	2	No 8	0.05866	0.009823	0	None	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-16	0.09141	0.07422	2	No 8	0.08281	0.008109	0	None	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-2	0.0272	0.0225	2	No 8	0.02485	0.002221	0	None	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-3	0.03884	0.03081	2	No 8	0.03483	0.003786	0	None	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-4	0.02949	0.01623	2	No 8	0.02286	0.006257	0	None	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-5	0.1536	0.1299	2	No 8	0.1418	0.01117	0	None	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-6	0.02734	0.02376	2	No 8	0.02555	0.001687	0	None	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-7	0.06883	0.05529	2	No 8	0.06206	0.006388	0	None	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-8	0.1484	0.1308	2	No 8	0.1396	0.008314	0	None	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-9	0.1231	0.1124	2	No 8	0.1178	0.005092	0	None	No	0.01	Param.
Beryllium (mg/L)	BY-AP-MW-13	0.003	0.00103	0.004	No 8	0.002754	0.0006965	87.5	None	No	0.004	NP (NDs)
Beryllium (mg/L)	BY-AP-MW-4	0.003	0.00071	0.004	No 8	0.002714	0.0008096	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	BY-AP-MW-13	0.001	0.00077	0.005	No 8	0.0009713	0.00008132	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	BY-AP-MW-1	0.003983	0.002227	0.1	No 8	0.003105	0.0008286	0	None	No	0.01	Param.
Chromium (mg/L)	BY-AP-MW-11	0.002994	0.002118	0.1	No 8	0.00255	0.0004594	0	None	ln(x)	0.01	Param.
Chromium (mg/L)	BY-AP-MW-12	0.00605	0.00325	0.1	No 8	0.004039	0.001119	0	None	No	0.004	NP (normality)
Chromium (mg/L)	BY-AP-MW-13	0.008779	0.006564	0.1	No 8	0.007671	0.001045	0	None	No	0.01	Param.
Chromium (mg/L)	BY-AP-MW-14	0.005532	0.004665	0.1	No 8	0.005099	0.0004088	0	None	No	0.01	Param.
Chromium (mg/L)	BY-AP-MW-16	0.01	0.00253	0.1	No 8	0.009066	0.002641	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	BY-AP-MW-7	0.01	0.00328	0.1	No 8	0.00916	0.002376	87.5	None	No	0.004	NP (NDs)

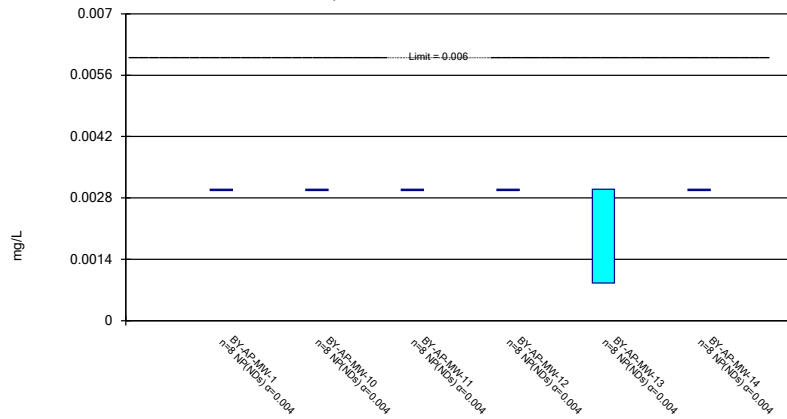
Confidence Intervals Summary - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 12/11/2020, 9:28 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	BY-AP-MW-12	0.003448	0.002527	0.0157	No 8	0.002988	0.0004346	0	None	No	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-15	0.0361	0.02827	0.0157	Yes 8	0.03219	0.003695	0	None	No	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-16	0.02052	0.01283	0.0157	No 8	0.01636	0.005129	0	None	x^3	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-2	0.00747	0.006398	0.0157	No 8	0.006934	0.0005056	0	None	No	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-4	0.01247	0.001972	0.0157	No 8	0.006995	0.00645	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-7	0.01933	0.01642	0.0157	Yes 8	0.01788	0.001375	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-1	2.471	1.274	5	No 8	1.873	0.5649	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-10	1.292	0.1937	5	No 8	0.7429	0.5181	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-11	1.005	0.3388	5	No 8	0.672	0.3144	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-12	1.565	0.7673	5	No 8	1.158	0.4078	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-13	0.9931	0.6139	5	No 8	0.8035	0.1788	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-14	1.369	0.2324	5	No 8	0.7748	0.6246	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-15	1.312	0.2203	5	No 8	0.7661	0.515	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-16	1.833	0.3455	5	No 8	1.055	0.8431	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-2	0.8261	0.04701	5	No 8	0.4366	0.3675	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-3	1.465	0.1508	5	No 8	0.7704	0.7532	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-4	0.8051	0.1829	5	No 8	0.494	0.2935	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-5	2.003	0.7016	5	No 8	1.352	0.6139	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-6	0.8483	-0.01702	5	No 8	0.4156	0.4082	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-7	0.6952	0.2973	5	No 8	0.4448	0.3172	0	None	x^2	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-8	3.95	0.321	5	No 8	0.9839	1.206	0	None	No	0.004	NP (normality)
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-9	1.464	0.6207	5	No 8	1.035	0.5202	0	None	ln(x)	0.01	Param.
Fluoride (mg/L)	BY-AP-MW-1	0.1223	0.04378	4	No 8	0.09085	0.04594	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BY-AP-MW-10	0.1	0.04	4	No 8	0.08459	0.02375	62.5	Kaplan-Meier	No	0.004	NP (NDs)
Fluoride (mg/L)	BY-AP-MW-11	0.08943	0.05589	4	No 8	0.07266	0.01582	12.5	None	No	0.01	Param.
Fluoride (mg/L)	BY-AP-MW-12	0.08837	0.04811	4	No 8	0.06824	0.01899	12.5	None	No	0.01	Param.
Fluoride (mg/L)	BY-AP-MW-13	0.0853	0.0548	4	No 8	0.07005	0.01439	12.5	None	No	0.01	Param.
Fluoride (mg/L)	BY-AP-MW-14	0.09668	0.07057	4	No 8	0.08363	0.01232	12.5	None	No	0.01	Param.
Fluoride (mg/L)	BY-AP-MW-15	0.19	0.1	4	No 8	0.1725	0.03016	12.5	None	No	0.004	NP (normality)
Fluoride (mg/L)	BY-AP-MW-16	0.07238	0.05009	4	No 8	0.07574	0.02201	37.5	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BY-AP-MW-2	0.1	0.037	4	No 8	0.09213	0.02227	87.5	Kaplan-Meier	No	0.004	NP (NDs)
Fluoride (mg/L)	BY-AP-MW-3	0.1	0.1	4	No 8	0.1	0	100	Kaplan-Meier	No	0.004	NP (NDs)
Fluoride (mg/L)	BY-AP-MW-4	0.1	0.1	4	No 8	0.1	0	100	Kaplan-Meier	No	0.004	NP (NDs)
Fluoride (mg/L)	BY-AP-MW-5	0.09357	0.04983	4	No 8	0.0717	0.02063	12.5	None	No	0.01	Param.
Fluoride (mg/L)	BY-AP-MW-6	0.1	0.1	4	No 8	0.1	0	100	None	No	0.004	NP (NDs)
Fluoride (mg/L)	BY-AP-MW-7	0.1014	0.07324	4	No 8	0.08731	0.01328	0	None	No	0.01	Param.
Fluoride (mg/L)	BY-AP-MW-8	0.07836	0.03928	4	No 8	0.06898	0.02634	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BY-AP-MW-9	0.07799	0.04953	4	No 8	0.06376	0.01342	0	None	No	0.01	Param.
Lead (mg/L)	BY-AP-MW-6	0.00545	0.00171	0.015	No 8	0.003971	0.001581	50	None	No	0.004	NP (normality)
Lead (mg/L)	BY-AP-MW-9	0.005	0.00108	0.015	No 8	0.00451	0.001386	87.5	None	No	0.004	NP (NDs)
Lithium (mg/L)	BY-AP-MW-11	0.0384	0.02	0.04	No 8	0.02519	0.006761	37.5	None	No	0.004	NP (normality)
Lithium (mg/L)	BY-AP-MW-15	0.02264	0.01567	0.04	No 8	0.02056	0.003071	50	Kaplan-Meier	sqrt(x)	0.01	Param.
Lithium (mg/L)	BY-AP-MW-7	0.02	0.0102	0.04	No 8	0.01762	0.004401	75	Kaplan-Meier	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-15	0.01	0.00209	0.1	No 8	0.008025	0.003657	75	None	No	0.004	NP (NDs)
Thallium (mg/L)	BY-AP-MW-13	0.001	0.000878	0.002	No 8	0.0009848	0.00004313	87.5	None	No	0.004	NP (NDs)

Non-Parametric Confidence Interval

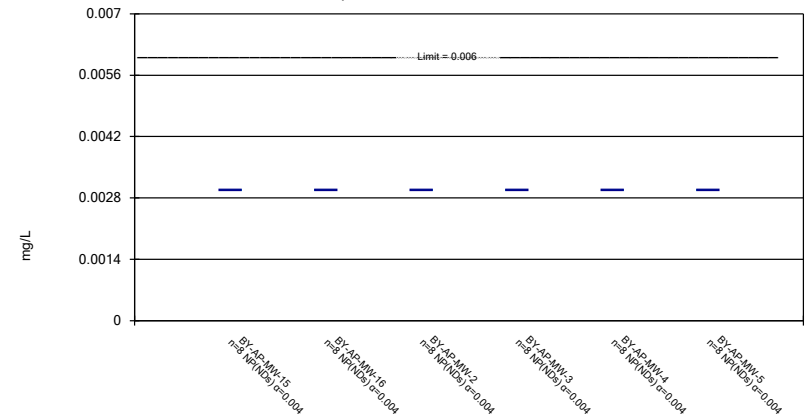
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Constituent: Antimony Analysis Run 12/11/2020 9:23 AM View: Appendix IV - Confidence Intervals
Plant Barry Client: Southern Company Data: Barry Ash Pond

Non-Parametric Confidence Interval

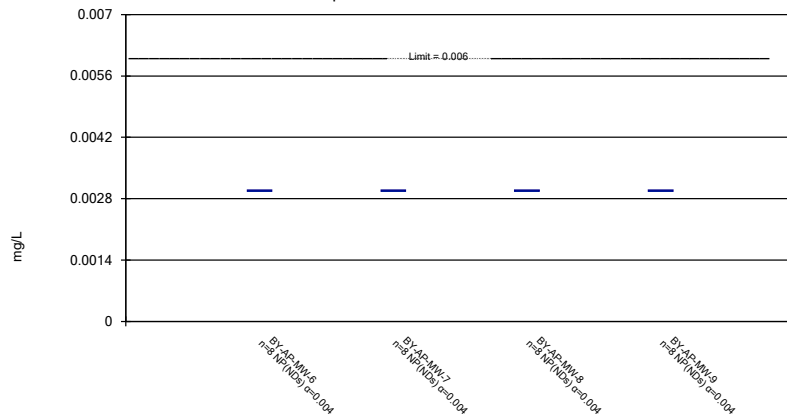
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Constituent: Antimony Analysis Run 12/11/2020 9:23 AM View: Appendix IV - Confidence Intervals
Plant Barry Client: Southern Company Data: Barry Ash Pond

Non-Parametric Confidence Interval

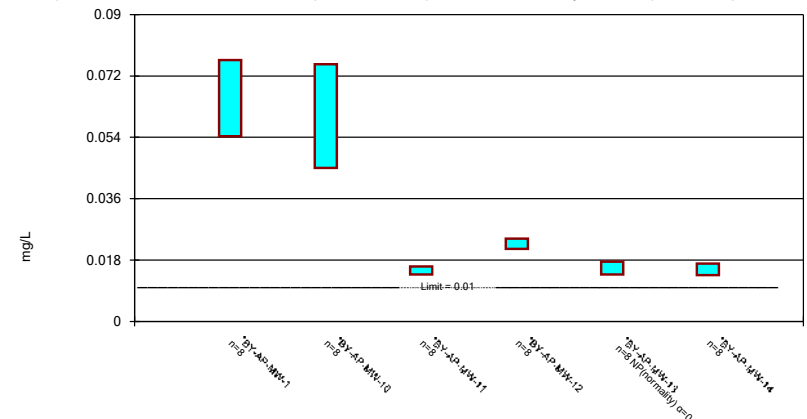
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Constituent: Antimony Analysis Run 12/11/2020 9:23 AM View: Appendix IV - Confidence Intervals
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

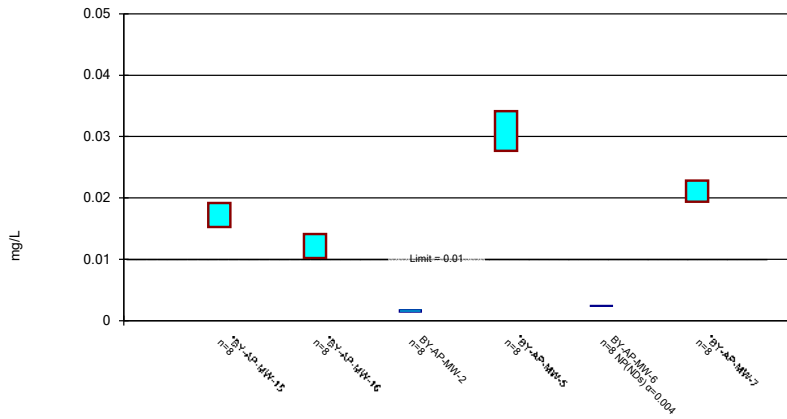
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Constituent: Arsenic Analysis Run 12/11/2020 9:23 AM View: Appendix IV - Confidence Intervals
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

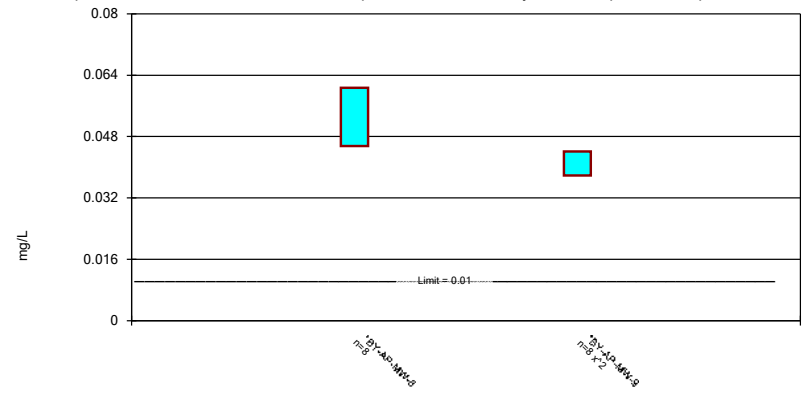
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Constituent: Arsenic Analysis Run 12/11/2020 9:23 AM View: Appendix IV - Confidence Intervals
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric Confidence Interval

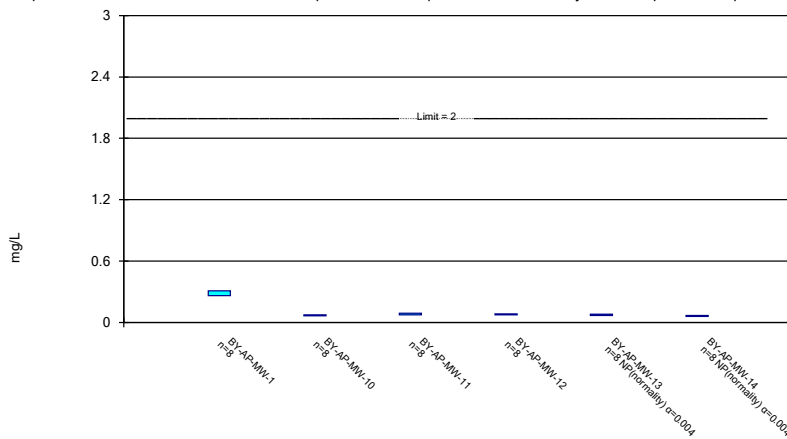
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Constituent: Arsenic Analysis Run 12/11/2020 9:23 AM View: Appendix IV - Confidence Intervals
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

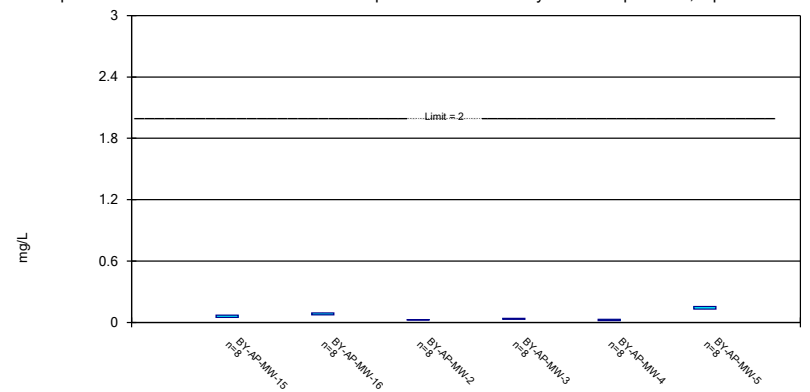
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Constituent: Barium Analysis Run 12/11/2020 9:23 AM View: Appendix IV - Confidence Intervals
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric Confidence Interval

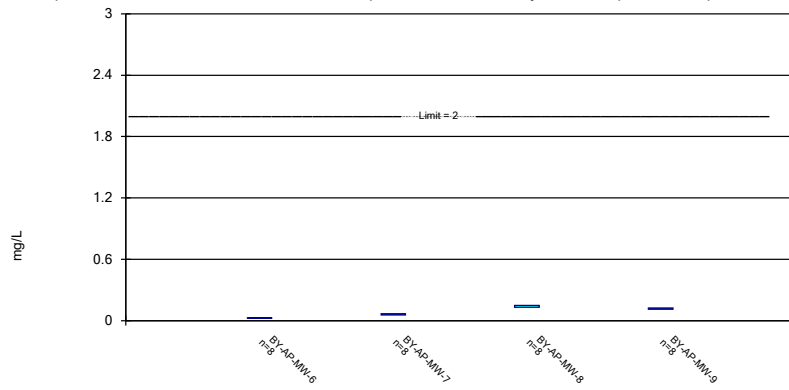
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Constituent: Barium Analysis Run 12/11/2020 9:23 AM View: Appendix IV - Confidence Intervals
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric Confidence Interval

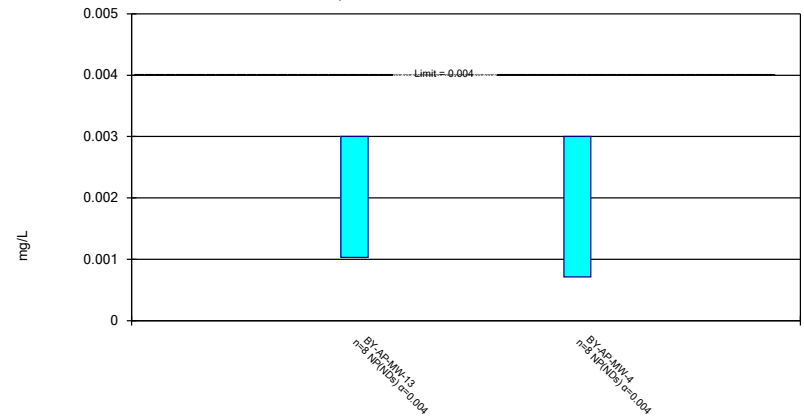
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Constituent: Barium Analysis Run 12/11/2020 9:23 AM View: Appendix IV - Confidence Intervals
Plant Barry Client: Southern Company Data: Barry Ash Pond

Non-Parametric Confidence Interval

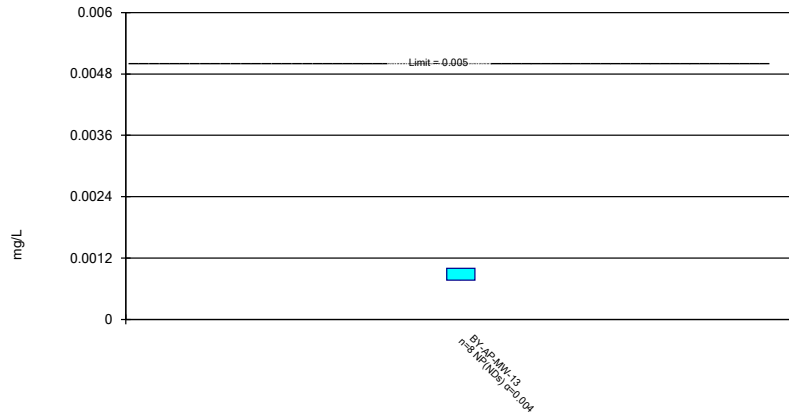
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Constituent: Beryllium Analysis Run 12/11/2020 9:23 AM View: Appendix IV - Confidence Intervals
Plant Barry Client: Southern Company Data: Barry Ash Pond

Non-Parametric Confidence Interval

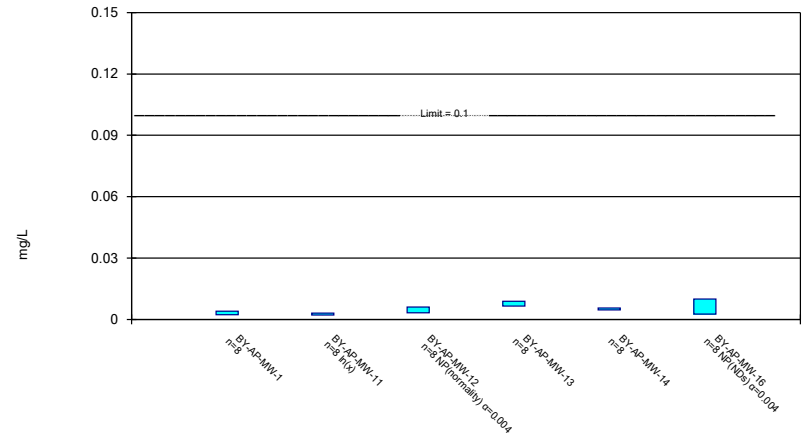
Compliance Limit is not exceeded.



Constituent: Cadmium Analysis Run 12/11/2020 9:23 AM View: Appendix IV - Confidence Intervals
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

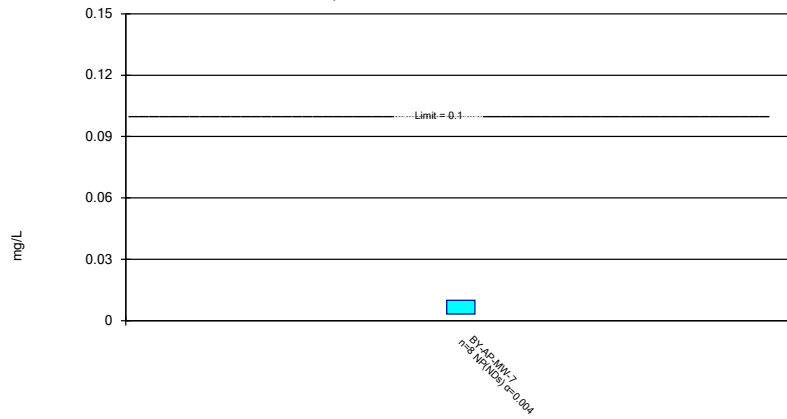
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Constituent: Chromium Analysis Run 12/11/2020 9:23 AM View: Appendix IV - Confidence Intervals
Plant Barry Client: Southern Company Data: Barry Ash Pond

Non-Parametric Confidence Interval

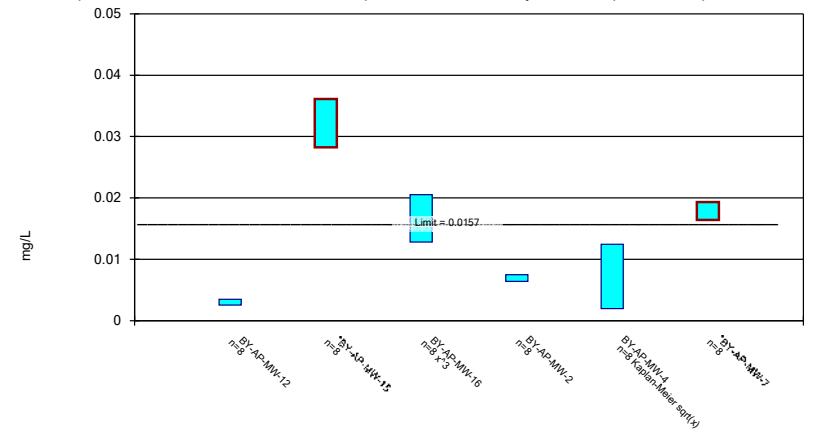
Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 12/11/2020 9:23 AM View: Appendix IV - Confidence Intervals
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric Confidence Interval

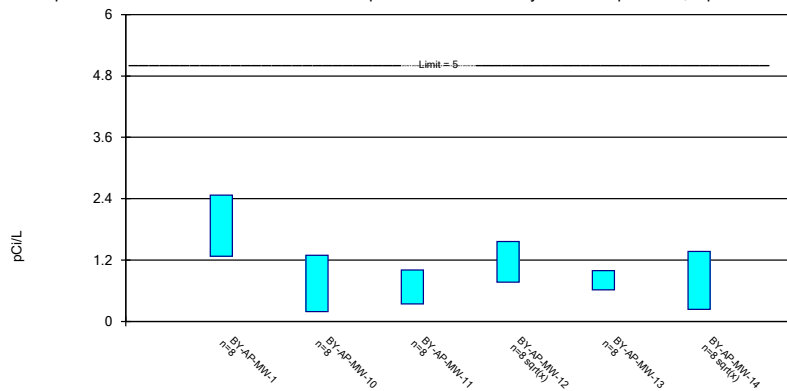
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 12/11/2020 9:23 AM View: Appendix IV - Confidence Intervals
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric Confidence Interval

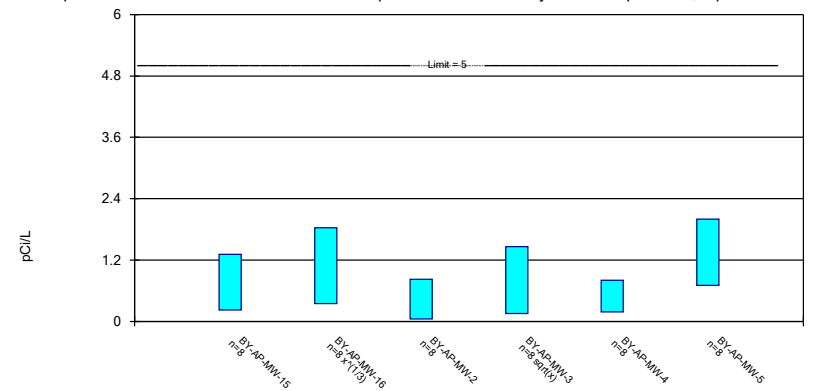
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 12/11/2020 9:23 AM View: Appendix IV - Confide
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric Confidence Interval

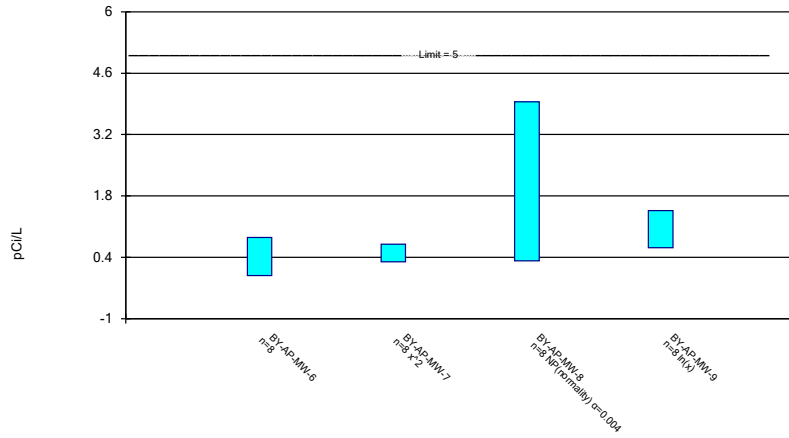
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 12/11/2020 9:23 AM View: Appendix IV - Confide
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

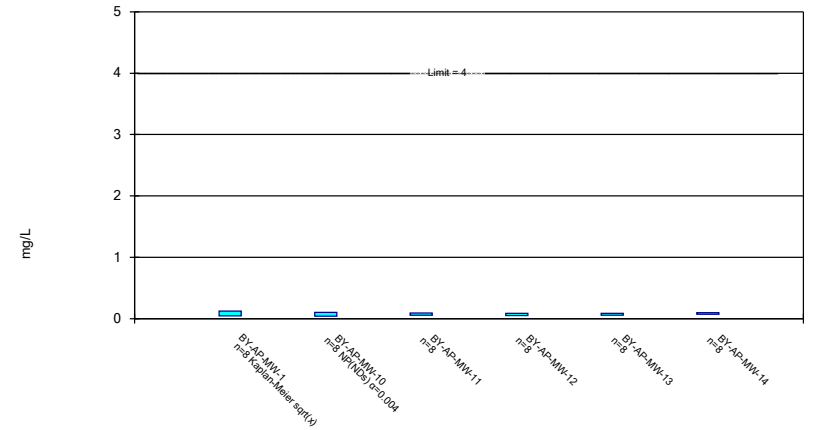
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 12/11/2020 9:23 AM View: Appendix IV - Confidence Intervals
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

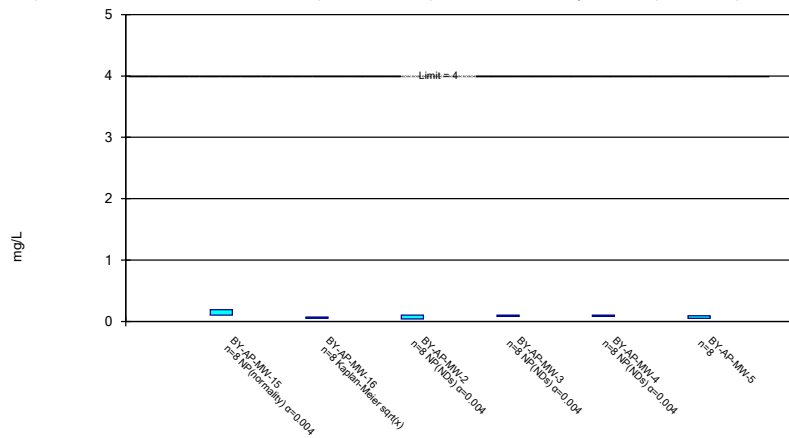
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 12/11/2020 9:23 AM View: Appendix IV - Confidence Intervals
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

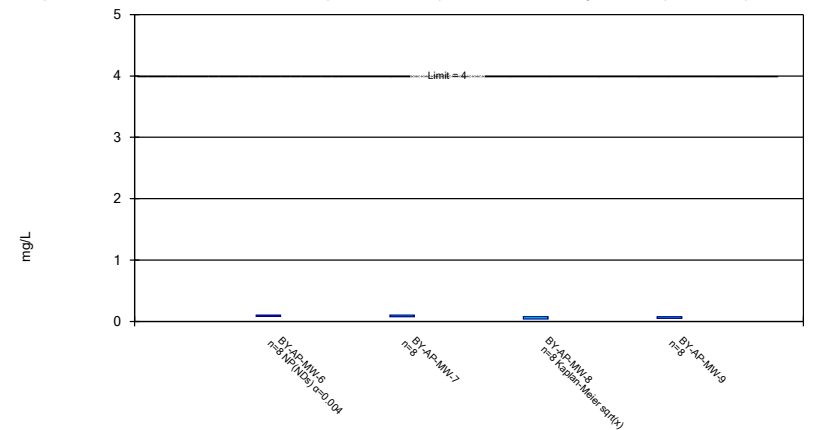
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 12/11/2020 9:23 AM View: Appendix IV - Confidence Intervals
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

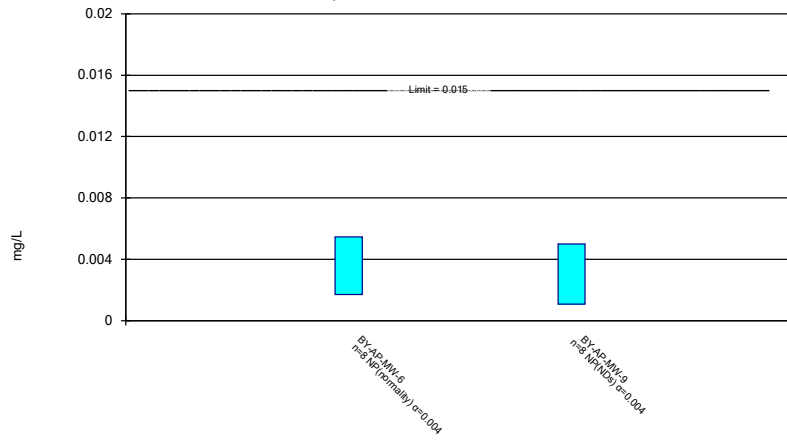
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 12/11/2020 9:23 AM View: Appendix IV - Confidence Intervals
Plant Barry Client: Southern Company Data: Barry Ash Pond

Non-Parametric Confidence Interval

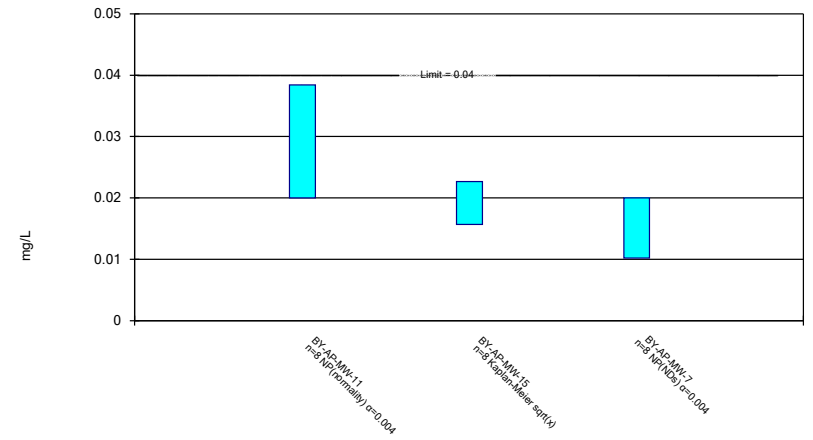
Compliance Limit is not exceeded.



Constituent: Lead Analysis Run 12/11/2020 9:23 AM View: Appendix IV - Confidence Intervals
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

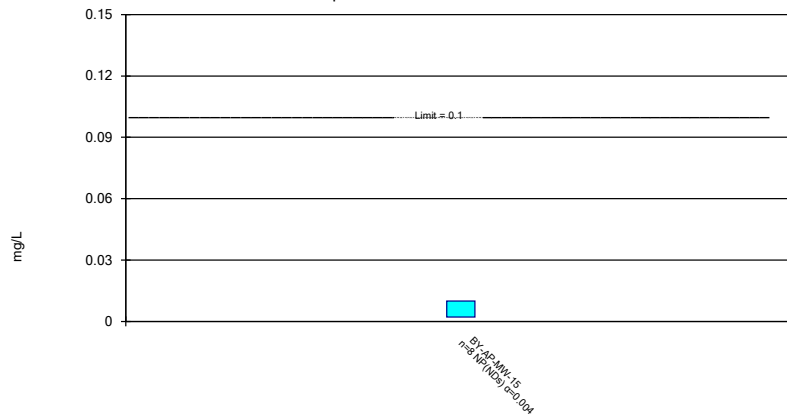
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 12/11/2020 9:23 AM View: Appendix IV - Confidence Intervals
Plant Barry Client: Southern Company Data: Barry Ash Pond

Non-Parametric Confidence Interval

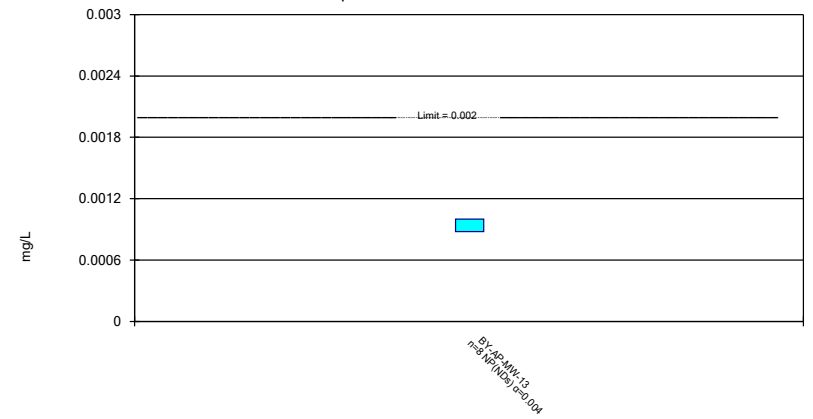
Compliance Limit is not exceeded.



Constituent: Molybdenum Analysis Run 12/11/2020 9:23 AM View: Appendix IV - Confidence Intervals
Plant Barry Client: Southern Company Data: Barry Ash Pond

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Thallium Analysis Run 12/11/2020 9:23 AM View: Appendix IV - Confidence Intervals
Plant Barry Client: Southern Company Data: Barry Ash Pond